IBM Cognos Business Intelligence
Version 10.2.1

Samples for IBM Cognos Business Intelligence

IBM
Note
Before using this information and the product it supports, read the information in "Notices" on page 93.

Product Information
This document applies to IBM Cognos Business Intelligence Version 10.2.1 and may also apply to subsequent releases.

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Introduction

This document is intended for use with the IBM® Cognos® Business Intelligence samples. It includes information on planning, preparing for, and installing samples, and finding and configuring the samples after installation.

The IBM Cognos Business Intelligence samples illustrate product features and business best practices. You can use the samples for experimenting with and sharing report design techniques and for troubleshooting.

Where to find the samples

The samples are included with IBM Cognos Business Intelligence. The samples for each studio are documented in the related user guide and online help. Contact your administrator to find out where the sample files are installed.

Downloading the Business Intelligence samples

After you finish downloading IBM Cognos Business Intelligence, you download the samples.

To download the samples, complete the following actions:

- Download the IBM Cognos Business Intelligence Samples 10.2.1 Multiplatform Multilingual file, which is available from [Downloading IBM Cognos Business Intelligence 10.2.1](www.ibm.com/support/docview.wss?uid=swg24034211).
- Unpack the samples into a single temporary directory on your system.
- Install the samples.

The Sample Outdoors Company

The Sample Outdoors Company, or GO Sales, or any variation of the Sample Outdoors name, is the name of a fictitious business operation whose sample data is used to develop sample applications for IBM and IBM customers. Its fictitious records include sample data for sales transactions, product distribution, finance, and human resources. Any resemblance to actual names, addresses, contact numbers, or transaction values, is coincidental. Unauthorized duplication is prohibited.

The samples consist of the following:

- Databases that contain all corporate data, and the related sample models for query and analysis.
- Sample cubes and the related models.
- A metrics data source including associated metrics, a strategy map for the consolidated company, and a model for Metric extracts.
- Reports, queries, query templates, and workspaces.

To run interactive reports, scripts are required. To see all the reports included in the samples packages, copy the files from the samples content installation into the deployment folder and then import the deployments into the IBM Cognos Business Intelligence product.
Changes to the samples

Changes to samples can be found by searching “Changes to Cognos BI samples by version” in the IBM Support Portal.

Samples for dynamic query mode

Sample models and reports that are optimized for dynamic query mode are included with IBM Cognos Business Intelligence.

When installed and deployed, you can find the updated samples in the Public Folders tab in IBM Cognos Connection, in a folder named Samples_DQ. The updated sample folders are renamed with the suffix _DQ.

The samples were modified slightly to benefit from the key improvements of the dynamic query mode. For example, reports were updated to apply a specific sorting order and to specify an aggregation mode.

To access the dynamic query mode samples, you must modify the data source connections to two sample data sources to enable JDBC connections, and then import the updated samples deployment archive.

Cognos Insight samples

The Cognos Insight samples are not included with the released product and must be downloaded from the IBM Cognos Insight Community.

For more information, see the technote “IBM Cognos Insight Samples” in the IBM Support Portal.

Mobile samples

The IBM Cognos Business Intelligence server installation includes a set of sample active reports for the Apple iPad and a set of sample static reports optimized for mobile devices.

For more information about finding the mobile samples, see the technote “IBM Cognos Mobile Samples” in the IBM Support Portal.

Cognos Mashup Service samples

The IBM Cognos Mashup Service samples include code samples that illustrate how to use the SOAP and REST interfaces to develop mashup applications. These samples are available when you purchase the IBM Cognos Software Development Kit.

Security

By default, the samples are available to all users.

Audience

This book is intended for IBM Cognos Business Intelligence users and administrators who require help in planning, preparing for, and installing samples, and finding and configuring the samples after installation.
Finding information

To find IBM Cognos product documentation on the web, including all translated documentation, access one of the [IBM Cognos Information Centers](http://publib.boulder.ibm.com/infocenter/cogic/v1r0m0/index.jsp). Release Notes are published directly to Information Centers, and include links to the latest technotes and APARs.

You can also read PDF versions of the product release notes and installation guides directly from IBM Cognos product disks.

Accessibility features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products.

IBM Cognos HTML documentation has accessibility features. PDF documents are supplemental and, as such, include no added accessibility features.

Forward-looking statements

This documentation describes the current functionality of the product. References to items that are not currently available may be included. No implication of any future availability should be inferred. Any such references are not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of features or functionality remain at the sole discretion of IBM.
Chapter 1. Install the IBM Cognos Business Intelligence Samples

The IBM Cognos Business Intelligence samples illustrate product features and technical and business best practices. You can also use them for experimenting with and sharing report design techniques, and for troubleshooting. If you want to use the samples, install them from the IBM Cognos Business Intelligence Samples disk or from the location where you downloaded and extracted the files.

Install the samples in a directory that contains only ASCII characters in the path name. Some servers do not support non-ASCII characters in directory names.

Installing samples on UNIX or Linux

Use the following procedure to install the IBM Cognos Business Intelligence samples on UNIX or Linux operating systems.

**Note:** When you use the issetup command with XWindows, Japanese characters in messages and log files may be corrupted. When installing in Japanese on UNIX, first set environment variables LANG=C and LC_ALL=C (where C is the language code, for example ja_JP.PCK on Solaris), and then run an unattended installation.

If you do not use XWindows, run an unattended installation.

**Procedure**

1. Mount the IBM Cognos product disk using Rock Ridge file extensions or go to the location where the installation files were downloaded.
   
   To mount the IBM Cognos disk on HP-UX, do the following:
   
   - Add the pfs_mount directory in your path.
     
     For example,
     
     PATH=/usr/sbin:/$PATH
     
     export PATH
   
   - To start the required NFS daemons and run the daemons in the background, type **bg pfs_mountd** and then type **bg pfsd**
   
   - To mount the drive, type
     
     pfs_mount -t rrip <device><mount_dir> -o xlat=unix
     
     For example,
     
     pfs_mount /dev/dsk/c0t2d0 /cdrom -o xlat=unix
   
     You can now install or copy files as a non-root user using an IBM Cognos disk from this drive.
   
   - When the installation is complete, type **pfs_umount** /cdrom and kill the pfsd and pfs_mountd daemons to unmount the disk.

2. To start the installation wizard, go to the operating system directory and type

   ./issetup

3. Follow the directions in the installation wizard and copy the required files to your computer.

   Install the samples in the same location as the server components.

4. In the **Finish** page of the installation wizard, click **Finish**.
Installing samples on Windows

Use the following procedure to install the IBM Cognos Business Intelligence samples on Microsoft Windows operating systems.

**Procedure**

1. Insert the Samples disk or go to the location where the installation files were downloaded and extracted.
   
   The **Welcome** page of the installation wizard appears.

2. If no **Welcome** page appears, go to the operating system directory and double-click the issetup.exe file.

3. Select the language to use for the installation.
   
   The language that you select determines the language of the user interface. You can change the language to any of the installed languages after installation.

4. Follow the directions in the installation wizard to copy the required files to your computer.
   
   Install the samples in the same location as the server components.

5. In the **Finish** page of the installation wizard, click **Finish**.
   
   Use the Microsoft Windows operating system **Start** menu to start IBM Cognos Configuration from the shortcut folder.
Chapter 2. Setting up the samples

To set up the samples, you must perform several setup tasks, such as restoring the samples databases and creating data source connections.

After setting up the samples, you can use them to learn how to use IBM Cognos software, including Framework Manager, Metric Studio, Metric Designer, Event Studio, IBM Cognos Workspace and IBM Cognos Mobile.

IBM Cognos BI provides sample databases that contain sales, marketing, and financial information for a fictional company named the Sample Outdoors Company that sells sporting equipment.

Before you can use the sample databases, IBM Cognos BI must be installed, configured, and running and then the IBM Cognos BI Samples must be installed. To use the modeling tool, you should install the components Framework Manager, Metric Designer, Transformer and Dynamic Cubes.

Restoring backup files for the samples databases

To use the IBM Cognos Business Intelligence samples, you must restore backup files for the samples databases. This action creates multilingual versions of the Samples Outdoors databases.

The following sample databases and associated files are provided with IBM Cognos Business Intelligence. For Microsoft SQL Server, unzip the file GS_DB_ORA.tar.gz and each database is delivered as a Microsoft SQL Server backup file. For Oracle, unzip the file GS_DB_ORA.tar.gz. For IBM DB2®, unzip the file GS_DB.tar.gz. Databases can be found in the following locations.

<table>
<thead>
<tr>
<th>Databases</th>
<th>File Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM DB2</td>
<td>GS_DB\data</td>
</tr>
<tr>
<td>Oracle</td>
<td>GS_DB_ORA\data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Database or schema description</th>
<th>File name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Outdoors sales</td>
<td>GS_DB.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors retailers</td>
<td>GS_DB.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors sales data warehouse</td>
<td>GS_DB.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors market research</td>
<td>GS_DB.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors human resources</td>
<td>GS_DB.tar.gz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Database or schema description</th>
<th>File name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Outdoors sales</td>
<td>GOSALES.zip</td>
</tr>
<tr>
<td>Great Outdoors retailers</td>
<td>GOSALES.zip</td>
</tr>
</tbody>
</table>
### Table 3. Microsoft SQL Server databases and files (continued)

<table>
<thead>
<tr>
<th>Database or schema description</th>
<th>File name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Outdoors sales data warehouse</td>
<td>GOSALESDW.zip</td>
</tr>
<tr>
<td>Great Outdoors market research</td>
<td>GOSALES.zip</td>
</tr>
<tr>
<td>Great Outdoors human resources</td>
<td>GOSALES.zip</td>
</tr>
</tbody>
</table>

### Table 4. Oracle databases and files

<table>
<thead>
<tr>
<th>Database or schema description</th>
<th>File name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Outdoors sales</td>
<td>GS_DB_ORA.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors retailers</td>
<td>GS_DB_ORA.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors sales data warehouse</td>
<td>GS_DB_ORA.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors market research</td>
<td>GS_DB_ORA.tar.gz</td>
</tr>
<tr>
<td>Great Outdoors human resources</td>
<td>GS_DB_ORA.tar.gz</td>
</tr>
</tbody>
</table>

To restore the samples databases, ensure that you perform the following actions:

- Give the restored databases the same names as the backup or export file names. The names are case-sensitive.
- Use the correct user name and password.
- Create users with select privileges for tables in multiple schemas.
  - To set up the GO Data Warehouse packages specify a single connection object and user signon. Create a single user that is named GOSALESDW with the select privilege to tables in a single schema named GOSALESDW.
  - The GO Sales packages specify a single connection object and user signon. Create a single user that is named GOSALES with the select privilege to tables in the following schemas: GOSALES, GOSALESHR, GOSALESMR, and GOSALESRT.
- Use the UTF-8 character set on the Microsoft Windows operating system computer that is the Oracle or DB2 client to see reports in multiple languages.
  - For DB2, you must set the DB2CODEPAGE environment variable to a value of 1208. For Oracle, you must set the NLS_LANG environment variable to a value that is specific to a region. For example, set NLS_LANG for Americas to American_America.UTF8.
- Have sufficient disk space available in the target location. Reserve 150MB for the GO Sales data (four schemas) and 200MB for the GO Data Warehouse data (one schema).

### IBM DB2 Considerations

The data files for db2move (a database movement tool command) and the scripts, to add constraints, are located in the data directory. The data directory is created when you unzip the GS_DB.tar.gz file.

If you use WinZip to extract the DB2 move file on in a Microsoft Windows environment, ensure that the TAR file smart CR/LF conversion option is not selected.

After extracting the DB2 move file, restore the schemas to a database named GS_DB.
To add views, constraints, user privileges, and stored procedures to GS_DB, prepare and run the gs_db_modify files included with the samples in the following order:

1. Update the user name and password in gs_db_modify.sql and save it.
2. Execute gs_db_modify.bat

Note: If the script file attempts to create a stored procedure where the procedure does not exist an error is generated. This error does not affect the samples.

Oracle Considerations

To create foreign key constraints in tables that reference different schemas, you must run gs_or_modify.sql, found in the same folder as the .dmp files.

Steps to restore backup files for the samples databases

Use this procedure to restore backup files.

Procedure

1. On the computer where IBM Cognos BI is installed, go to the sql server, oracle, or db2 directory located in c10_location/webcontent/samples/datasources.
2. If required, copy the backup files for the samples databases to your database backup directory.
3. Restore the samples databases using your database management tool.

Tip:

- For SQL backup files, restore the database from a device, and ensure that the restore locations are correct for the .ldf and .mdf database files. For more information, see the Microsoft SQL Server documentation or the IBM Cognos Knowledge Base on the IBM Cognos Customer Center (http://www.ibm.com/software/data/cognos/customercenter/).
- For DB2, when you create the GS_DB database, create a buffer pool with a page size of 16 KB and an associated tablespace.
4. For each database, create at least one user who has select permissions for all the tables in the restored databases.

Results

You can now create the data source connections in the portal.

Restore the samples on IBM DB2 using a script

You can use scripts to restore backup files for sample databases for DB2.

To set up the sample database, you must extract the GS_DB.tar.gz file, customize a configuration file, and run the setup script.

There are prerequisites for installing the Great Outdoors sample database for DB2 on Linux, UNIX and Windows. Before you can install the sample databases, you must verify or configure privileges.

1. Extract the GS_DB.tar.gz file and retain the original directory structure. If you use WinZip to extract the DB2 move file on Microsoft Windows operating system, ensure that the TAR file smart CR/LF conversion option is not selected.
2. On Linux and UNIX operating systems, modify the file permissions on the `setupGSDB.sh` file so that it is executable: `chmod u+x setupGSDB.sh`.

3. Ensure that the user ID used to set up the database has DBADM authority or the following authorities in DB2:
   - `CREATETAB`
   - `CREATE_NOT_FENCED_ROUTINE`
   - `LOAD`

**Optional: Editing the configuration file**

The configuration file contains the default configuration options that are used when creating the GOSALES data. The default configuration settings are listed in the following table.

*Table 5. Optional values for restoring the samples on IBM DB2*

<table>
<thead>
<tr>
<th>Configuration Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOSALES_INST</td>
<td>GS_DB</td>
<td>Used to set the name or alias of the database.</td>
</tr>
<tr>
<td>GOSALES_CREATEDB</td>
<td></td>
<td>Optional: Causes an existing database with the same name to be dropped.</td>
</tr>
<tr>
<td>GOSALES_DB_TERRITORY</td>
<td>US</td>
<td>When creating a database this is the territory of the UTF-8 database that is created.</td>
</tr>
<tr>
<td>GOSALES_BP</td>
<td>GOSALES_BP</td>
<td>Optional: Enter the buffer pool and tablespace name, if these are to be created by the script.</td>
</tr>
<tr>
<td>GOSALES_TS</td>
<td>GOSALES_TS</td>
<td></td>
</tr>
<tr>
<td>GOSALES_GRANTEESE</td>
<td>GOSALES, DB2ADMIN</td>
<td>Enter the list of users, groups or PUBLIC that will have CONTROL permissions for the GOSALES, GOSALESHR, GOSALESMR and GOSALESRT schemas. This string needs to follow the syntax of the GRANT command.</td>
</tr>
<tr>
<td>GOSALES DW GRANTEESE</td>
<td>GOSALESDW</td>
<td>Enter the list of users, groups or PUBLIC that will have CONTROL permissions for the GOSALES DW schema.</td>
</tr>
<tr>
<td></td>
<td>DB2ADMIN</td>
<td></td>
</tr>
<tr>
<td>GOSALES_DPF</td>
<td>N</td>
<td>Change to 'Y' if installing a database partitioned environment (DPF)</td>
</tr>
<tr>
<td>GOSALES_SCHEMA</td>
<td>GOSALES</td>
<td>Enter the names to be used for each schema.</td>
</tr>
<tr>
<td>GOSALESHR_SCHEMA</td>
<td>GOSALESHR</td>
<td></td>
</tr>
<tr>
<td>GOSALESMR_SCHEMA</td>
<td>GOSALESMR</td>
<td></td>
</tr>
<tr>
<td>GOSALES RT_SCHEMA</td>
<td>GOSALESRT</td>
<td></td>
</tr>
<tr>
<td>GOSALES DW Schema</td>
<td>GOSALES DW</td>
<td></td>
</tr>
</tbody>
</table>
You can customize the sample configuration file to use settings other than the default values.

The setup script creates the GS_DB database, table spaces, tables, views, grants privileges, and modifies the schema names for the sample database. In most situations, you can accept the default options. If you want to change the database name or modify the users or groups that have permissions on the data, you must update the G0SalesConfig configuration file.

Edit the configuration file by using a text editor.

**Note:** If you edit UNIX shell scripts in a Windows environment, ensure that you preserve the UNIX line endings.

The configuration file on Windows is G0SalesConfig.bat. The configuration file on UNIX is G0SalesConfig.sh.

By default, the GS_DB database name is used and permissions are granted to the DB2ADMIN (Linux, UNIX, Windows) and GOSALES users.

**Running the setup script in interactive mode**

In interactive mode, the setupGSDB script prompts you to confirm or provide configuration information for the GS_DB database installation. You can accept the default settings or provide different settings to replace the defaults.

- Run the setup script for your operating system.

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows</td>
<td>In a DB2 command window, change to the GS_DB/win directory and run the setupGSDB.bat script.</td>
</tr>
<tr>
<td>UNIX</td>
<td>From a shell prompt, source the db2profile change to the GS_DB/unix directory, and run the setupGSDB.sh script.</td>
</tr>
</tbody>
</table>

- Press Enter to proceed. The script displays a summary of your choices before you commit to changes to your environment. If you approve the choices, press Enter and the script makes the changes. For example, you might see the following message:

Please confirm the following settings:
Database Name: GS_DB
Drop and Recreate Database: Y
DPF environment: N
Create a 16k Bufferpool named: GOSALES_BP
Create a 16k Tablespace named: GOSALES_TS
GOSALES Grant users/groups: GOSALES, DB2ADMIN
GOSALESDW Grant users/groups: GOSALESDW, DB2ADMIN
Administration User Name: db2admin
Import the sample data to the following schemas:
GOSALES
GOSALESHR
GOSALESMR
GOSALESRT
GOSALESDW
WARNING: If the database GS_DB already exists it will be dropped
Continue creating the sample data with these settings? (Y/N) Default=Y:
The GS_DB database is set up.

**Running the setup script with command line options**

The `setupGSDB` script lets you provide information on the command line to reduce the number of prompts from the script.

From a command line, run the script for your operating system. On Windows use `setupGSDB.bat`. On UNIX or Linux operating systems use `setupGSDB.sh`.

You can run the `setupGSDB` script with the following options:

**Table 7. `setupGSDB` options for IBM DB2**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-createdb</td>
<td>Creates the database. This option drops any existing database with the same name. It creates the required buffer pool and table space.</td>
</tr>
<tr>
<td>-database database name</td>
<td>Specifies the name of the database. This value overrides the default value of GS_DB.</td>
</tr>
<tr>
<td>-userid administration_user_ID</td>
<td>Specifies the name of the DB2 administrator user ID that is used to create the database.</td>
</tr>
<tr>
<td>-password administration_user_ID</td>
<td>Specifies the password for the DB2 administrator user ID.</td>
</tr>
<tr>
<td>-noprompt</td>
<td>Indicates that no prompt will display. This option runs the script in silent mode. Any missing information causes the script to fail.</td>
</tr>
</tbody>
</table>

Example 1: You are a DB2 administrator and want to create the default GS_DB database on the local node. You run the following command:

```
setupGSDB -createDB -noprompt
```

Example 2: You want to create the tables in an existing database named GSDBY, and you want to use the administrator user ID `db2admin`. Run the following command:

```
setupGSDB -database GSDBY -userid db2admin
```

The script prompts you for the password when it connects to GSDBY. The script will replace any tables that already exist in the GSDBY database, unless you choose to drop the database.

**Optional: Installing the sample data on a remote server**

If the GS_DB sample database is installed on a remote server in your environment, you can link to it by cataloguing the remote database on your local computer and then running the setup script locally.

- If the sample database does not yet exist on the remote server, create it with the `CREATE DATABASE` command. The database requires a UTF-8 codeset and a default table space with a pagesize of 16 KB or larger. For example, on the remote server, create the database by running the following command:
CREATE DATABASE GS_DB USING CODESET UTF-8 TERRITORY US PAGESIZE 16k

- On your local computer, catalog the remote database:
  
  db2
  catalog tcpip node nodename remote ipaddr server port_number
  db2 catalog database GS_DB as GS_DB at node nodename

- On your local computer, run the script:

  setupGSDB
  -database GS_DB -userid administration_user_ID

You are prompted for a password to connect to the database.

**Restore the samples on Oracle using a script**

You can use scripts to restore backup files for sample databases for Oracle.

To set up the sample database, you must extract the file GS_DB_ORA.tar.gz, customize a configuration file, and run the setup script.

There are prerequisites for installing the Great Outdoors sample database for Oracle. Before you can install the sample databases, you must verify or configure privileges.

- Extract the GS_DB_ORA.tar.gz file and retain the original directory structure.
- On Linux and UNIX operating systems, modify the file permissions on the setupGSDB.sh file so that it is executable: chmod u+x setupGSDB.sh.
- Ensure that the user ID used to set up the Oracle database has authority to create users and run the import utility.

**Optional: Editing the configuration file**

The configuration file contains the default configuration options that are used when creating the GOSALES data.

**Table 8. Optional values for restoring the samples on Oracle**

<table>
<thead>
<tr>
<th>Configuration Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOSALES_IMP_CMD</td>
<td>imp</td>
<td>If necessary can be modified to specify the complete path to the correct version of the import utility.</td>
</tr>
<tr>
<td>GOSALES_INST</td>
<td></td>
<td>Oracle host string.</td>
</tr>
<tr>
<td>GOSALES_TS</td>
<td>GOSALES_TS</td>
<td>If users are created by scripts, used to enter the tablespace name to assign to users.</td>
</tr>
<tr>
<td>GOSALES_CREATE_TS</td>
<td></td>
<td>Optional: Used to create the default tablespace for users.</td>
</tr>
<tr>
<td>GOSALES_TEMP_TS</td>
<td></td>
<td>If users are created by scripts, used to name a temporary tablespace to assign to users. Leave blank to use the default temporary tablespace.</td>
</tr>
<tr>
<td>GOSALES_SCHEMA</td>
<td>GOSALES</td>
<td>Used to enter the username and password for the GOSALES user. You will be prompted for a password if not entered.</td>
</tr>
<tr>
<td>GOSALES_SCHEMA_PW</td>
<td>GOSALESPW</td>
<td>Used to enter the username and password for the GOSALES user. You will be prompted for a password if not entered.</td>
</tr>
</tbody>
</table>
Table 8. Optional values for restoring the samples on Oracle (continued)

<table>
<thead>
<tr>
<th>Configuration Setting</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOSALESHR_SCHEMA</td>
<td>GOSALESHR</td>
<td>Used to enter the username and password for the GOSALESHR user. You will be prompted for a password if not entered.</td>
</tr>
<tr>
<td>GOSALESHR_SCHEMA_PW</td>
<td>GOSALESHRPW</td>
<td></td>
</tr>
<tr>
<td>GOSALESMR_SCHEMA</td>
<td>GOSALESMR</td>
<td>Used to enter the username and password for the GOSALESMR user. You will be prompted for a password if not entered.</td>
</tr>
<tr>
<td>GOSALESMR_SCHEMA_PW</td>
<td>GOSALESMRPW</td>
<td></td>
</tr>
<tr>
<td>GOSALESRT_SCHEMA</td>
<td>GOSALESRT</td>
<td>Used to enter the username and password for the GOSALESRT user. You will be prompted for a password if not entered.</td>
</tr>
<tr>
<td>GOSALESRT_SCHEMA_PW</td>
<td>GOSALESRTPW</td>
<td></td>
</tr>
<tr>
<td>GOSALESDW_SCHEMA</td>
<td>GOSALESDW</td>
<td>Used to enter the username and password for the GOSALESDW user. You will be prompted for a password if not entered.</td>
</tr>
<tr>
<td>GOSALESDW_SCHEMA_PW</td>
<td>GOSALESDWPW</td>
<td></td>
</tr>
<tr>
<td>GOSALES_GRANTEES</td>
<td>GOSALES</td>
<td>Used to enter the users that will have SELECT, INSERT, DELETE, UPDATE, and ALTER permissions for GOSALES, GOSALESHR, GOSALESMR and GOSALESRT schemas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> The owner of the GOSALES_SCHEMA will always be granted SELECT, INSERT, DELETE, UPDATE and ALTER privilege on all schemas.</td>
</tr>
<tr>
<td>GOSALESDW_GRANTEES</td>
<td>GOSALESDW</td>
<td>Used to enter the users that will have SELECT, INSERT, DELETE, UPDATE and ALTER permissions for GOSALESDW schema.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

You can customize the sample configuration file to use settings other than the default values.

The setup script creates the users and schemas specified in the configuration file. In most situations, you can accept the default options. If you want to change the schema names or modify the users or groups that have permissions on the data, you must update the GOSalesConfig configuration file.

Edit the GOSalesConfig.bat or GOSalesConfig.sh configuration file by using a text editor.

**Running the setup script in interactive mode**

In interactive mode, the setupGSDB script prompts you to confirm or provide configuration information for the sample database installation. You can accept the default settings or provide different settings to replace the defaults.

- Run the setup script for your operating system.
Table 9. Running the samples restore script

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows</td>
<td>In a DOS command window, change to the GS_DB_ORA\win directory and run the setupGSDB.bat script.</td>
</tr>
<tr>
<td>UNIX</td>
<td>From a shell prompt, change to the GS_DB_ORA/unix directory, and run the setupGSDB.sh script.</td>
</tr>
</tbody>
</table>

- Press Enter to proceed. The script will run the sample database setup and display a summary of your choices before you commit to changes to your environment. If you approve the choices, press Enter and the script makes the changes. For example, you might see the following message:

Please confirm the following settings:

Instance Name is ORAINST123
Create the following user accounts and import the data:
GOSALES
GOSALESHR
GOSALESMR
GOSLAESRT
GOSALESDW

Default tablespace is GOSALES_TS
Temporary tablespace is DEFAULT
Administration User name is sys

WARNING: If the users already exist they will be dropped
Create a Tablespace named GOSALES_TS
Grant select on the GOSALES schemas to GOSALES
Grant select on the GOSALESDW schema to GOSALESDW

Continue creating the sample data with these settings?
(Y/N) Default=Y:

Tip: If you edit UNIX shell scripts in a Windows environment, ensure that you preserve the UNIX line endings.

Running the setup script with command line options

The setupGSDB script lets you provide information on the command line to reduce the number of prompts from the script.

From a command line, run the script for your operating system. On Windows use setupGSDB.bat. On UNIX or Linux operating systems use setupGSDB.sh.

You can run the setupGSDB script with the following options:

Table 10. setupGSDB options for Oracle

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-createdb</td>
<td>Creates the users. This option drops any existing users with the same name.</td>
</tr>
<tr>
<td>-database database name</td>
<td>Specifies the name of the Oracle instance. This value overrides the default value specified in the configuration file.</td>
</tr>
</tbody>
</table>
Table 10. setupGSDB options for Oracle (continued)

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-userid administration_user_ID</td>
<td>Specifies the name of the Oracle administrator user ID that is used to create the users.</td>
</tr>
<tr>
<td>-password administration_user_ID</td>
<td>Specifies the password for the Oracle administrator user ID.</td>
</tr>
<tr>
<td>-noprompt</td>
<td>Indicates that no prompt will display. This option runs the script in silent mode. Any missing information causes the script to fail. You will not be prompted for any confirmations.</td>
</tr>
</tbody>
</table>

Example 1: You are an Oracle administrator and want to create the default sample database schemas. You run the following command:

```
setupGSDB -createDB -noprompt
```

Example 2: You want to create the tables in the existing schemas specified in the configuration file, and you want to use the administrator user ID sys. Run the following command:

```
setupGSDB -YourOracleInstance -userid sys -sysdba
```

The script prompts you for the password when it connects to the Oracle instance. The script deletes any existing tables or views in the specified schemas and replaces them.

---

**Create data source connections to the samples databases**

You must create data source connections to the samples databases that you restored.

IBM Cognos Business Intelligence uses data source connections to the samples databases to connect to the samples databases and run the sample reports or use the sample package.

**Before you begin**

The DB2 database name that you type must use uppercase letters. Also, in Framework Manager, the schema names that you type for the DB2 data sources must use uppercase letters.

Before you create the data source connections, you must restore the backup files for the samples databases. Also, ensure that the IBM Cognos BI service is running.

To create data sources, you must have execute permissions for the Data Source Connections secured feature and traverse permissions for the Administration secured function. You must have write permissions for the Cognos namespace.

**Procedure**

1. Open IBM Cognos Administration by connecting to the IBM Cognos BI portal and clicking **Administer IBM Cognos Content** on the **Welcome** page.
2. Click the **Configuration** tab.
3. Click the new data source icon.

4. In the Name box, type great_outdoors_sales and then click Next.

5. In the connection page, click the type of database that you restored and want to connect to, select an isolation level, and then click Next.

   The connection string page for the selected database appears.

   **Note:** By default, creating a data source connection enables samples that use the dynamic query mode. If you only want to use the compatible samples, deselect Configure JDBC Connection.

   **Tip:** The user specified in the great_outdoors_sales data source must have select privileges on the tables in each of the GOSALES, GOSALESRT, GOSALESMR, AND GOSALESHR schemas.

6. Do one of the following:

   - If you restored the samples databases in Microsoft SQL Server, in the Server Name box, type the name of the server where the restored databases are located. In the Database name box, type GOSALES.

     IBM Cognos BI samples require TCP/IP connectivity with Microsoft SQL Server. Ensure the SQL Server Security is set to SQL Server and Microsoft Windows operating system, instead of Windows Only. The samples use SQL Server security for authentication.

   - If you restored the samples databases in Oracle, in the SQL*Net connect string box, type the instance name of the Oracle database as it is entered in the tnsnames.ora file.

   - If you restored the samples database in DB2, in the DB2 database name box, type GS_DB using uppercase letters. Leave the DB2 connect string box blank.

   - If you deployed the sample cube to IBM InfoSphere® Warehouse Cubing Services, in the Name box, type sales_and_marketing_cs. On the Specify the connection page for the Type box, select IBM InfoSphere Warehouse cubing services (XMLA). On the Specify the connection string page for the Server URL box, type the name of the server and the XMLA port number for the cube, followed by /IBMXmlAnalysis. For example, myserver:1999/IBMXmlAnalysis.

7. Under Signons, select the both Password and Create a signon that the Everyone group can use check boxes, type the user ID and password for the user that you created when you restored the databases, and then click Finish.

   **Tip:** To test whether the parameters are correct, click Test the connection....

8. Click Finish.

9. Repeat steps 4 to 9 for the GOSALESDW samples database or schema, and type great_outdoors_warehouse in step 5.

10. If the GOSALESW model will be used by modelers in IBM Cognos Transformer, the connection string must be manually added to the cs7g.ini file.

    - If you deployed the sample cube to IBM InfoSphere Warehouse Cubing Services, in the Name box, type sales_and_marketing_cs. On the Specify the connection page for the Type box select IBM InfoSphere Warehouse cubing services (XMLA). On the Specify the connection string page for the Server URL box, type the name of the server and the XMLA port number for the cube, followed by /IBMXmlAnalysis. For example, myserver:1999/IBMXmlAnalysis.
Results

The Sample Outdoors data source connections appear as entries in Data Source Connections.

You can now import the samples unless there is a syntax error in the connection string or an incorrect parameter.

Set Up Microsoft Analysis Services Cube Samples

IBM Cognos Connection or Framework Manager provides sample cubes for Microsoft Analysis Services (MSAS).

For finance data, use the GO Finance Fact cube derived from the GOSALESDW database. This cube contains year-to-date and monthly financial data for all accounts so that you can create financial statements in Analysis Studio, Query Studio, and Report Studio. The data is in actual US dollars submissions for 2004, 2005, 2006, or 2007 (7 months actual data only).

The MSAS2005 version is in the GOFinanceFact_XX.abf file. XX represents the language. For example, XX is replaced with EN which indicates English. The MSAS2008 version of cubes also exists, with report content only for the 2005 version.

For sales data, use the GOSalesFact cube derived from the GOSalesFact_XX Analysis Services database, based on the GOSALESDW SQLSERVER Database. The cube contains measures such as unit cost, unit price, quantity, and gross profit. Dimensions include Time, Product, and Retailers.

The MSAS2005 version is in the GOSalesFact_XX.abf restorable backup file.

The backup files are located in the c10_location/webcontent/samples/datasources/cubes/MSAS directory. The files must be restored to a Microsoft SQL Server database running the applicable Microsoft Analysis Services and hosting the GOSALESDW database.

Note: Both Microsoft XML 6.0 Parser and Microsoft SQL 2005 Analysis Services 9.00 OLEDB Provider must be installed on the local client to establish data source connections to MSAS cubes.

Procedure

1. On the computer where IBM Cognos Business Intelligence is installed, go to the c10_location/webcontent/samples/datasources/cubes/MSAS/en directory.
2. Copy the GOSALESDW.cab and GOSALESDW.abf files to a directory that you can access from the Analysis Manager console in the Analysis Servers of Microsoft SQL Server.
3. Use the Microsoft Analysis Services Analysis Manager to restore the database from the GOSALESDW.cab and GOSALESDW.abf files.

Results

You can now create the data source connections to these MSAS datasources in Cognos Administration by referencing either the GOSalesFact_XX or GOFinanceFact_XX cubes you restored.
Set Up the InfoSphere Warehouse Cubing Services Sample

Before you begin

Before you set up the InfoSphere Warehouse Cubing Services samples, you must restore the DB2 sample database.

Procedure

1. On the computer where IBM Cognos software is installed, go to the db2 directory located in {c10_location}/webcontent/samples/datasources/cubes/CubingServices/. Select the language of your choice.
2. If required, copy the csgodw.xml file to your working directory.
3. In IBM InfoSphere Warehouse Design Studio, import the csgodw.xml metadata file into a data model based on the DB2 GS_DW schema.
4. Deploy the CSGODW cube to the DB2 GS_DW schema.
5. Use the IBM InfoSphere Warehouse Administration Console to add the new cube to a cube server, and run it.
   Note the XMLA port number for the cube, as this number is required for the data source connection.

Results

You can now create the data source connections in the IBM Cognos Connection portal.

Set up the IBM Cognos TM1 samples

To use the IBM Cognos TM1® samples, you must set up the servers, create a shortcut to the configuration file, import the deployment files, and create the data source connections.

To set up the Cognos TM1 server samples, unzip and install the greatoutdoors.zip files. To set up the Cognos TM1 FinanceFact Server, unzip and install the financefact.zip files. The default installation path for these files is: C:\Program Files\IBM\Cognos\c10\webcontent\samples\datasources\cubes\tm1.

Procedure

1. Ensure that you have the TM1 software installed and the server started.
2. Create a desktop shortcut to the preconfigured location of the TM1s.cfg configuration file. The default location is: "C:\Program Files\IBM\Cognos\TM1\bin\tm1.exe" -z "C:\Program Files\IBM\Cognos\c10\webcontent\samples\datasources\cubes\tm1\greatoutdoors"
3. If the location of your configuration file is different, open the configuration file in a text editor and modify it. An example of a basic configuration file is as follows.
   - If IntegratedSecurity Mode is set to 1. All clients must provide a database username and password.
   - If IntegratedSecurity Mode is set to 2. The clients will have the choice to connect by providing a database username and password or use the single-login mechanism for authentication.
   - If IntegratedSecurity Mode is set to 3. All clients must use the single-login mechanism for authentication.
TM1S
DataBaseDirectory=C:\ProgramFiles\IBM\Cognos\c10\webcontent\samples\datasources\cubes\tm1\greatoutdoors
LoggingDirectory=C:\ProgramFiles\IBM\Cognos\c10\webcontent\samples\datasources\tm1\greatoutdoors\LogFiles
ServerName=GreatOutdoors
PortNumber=33339
AdminHost=localhost
Language=eng
Protocol=tcp
NetworkFrame=
SaveTime=
DownTime=
RuleTraceOn=

4. To start the server, launch the desktop shortcut to TM1s.cfg.
5. To import the report deployment files, Sales_plan.zip, Sales_plan_TC.zip, and TM1_FinanceFact.zip, use IBM Cognos Administration.

Results

The Financefact and Salesplan packages are created. These packages connect to the TM1_FinanceFact and TM1_SalesPlan data sources which you must now create in Cognos Administration.

The deployment packages refer to the following data sources.

Tip: For Traditional Chinese, use the x_TC packages.

Table 11. TM1 samples data sources

<table>
<thead>
<tr>
<th>Application</th>
<th>Data Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Outdoors</td>
<td>TM1_SalesPlan</td>
</tr>
<tr>
<td></td>
<td>TM1_SalesPlan_TC</td>
</tr>
<tr>
<td>FinanceFact</td>
<td>TM1_FinanceFact</td>
</tr>
<tr>
<td></td>
<td>TM1_FinanceFact_TC</td>
</tr>
</tbody>
</table>

The deployment packages refer to the following Report Studio reports.

Table 12. TM1 samples deployment packages

<table>
<thead>
<tr>
<th>Packages</th>
<th>Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>GreatOutdoors</td>
<td>Best Selling Products</td>
</tr>
<tr>
<td></td>
<td>Channel Pricing Comparison</td>
</tr>
<tr>
<td></td>
<td>Forecast Revenue by Region: Golf Shops</td>
</tr>
<tr>
<td>FinanceFact</td>
<td>Golf Shop Sales Forecast - Americas versus Asia Pacific</td>
</tr>
<tr>
<td></td>
<td>Gross Margin Forecast</td>
</tr>
<tr>
<td></td>
<td>Balance Sheet - Americas</td>
</tr>
<tr>
<td></td>
<td>Balance Sheet - Central Europe</td>
</tr>
<tr>
<td></td>
<td>Income Statement</td>
</tr>
</tbody>
</table>
Set up the Essbase cube sample

To set up the Essbase cube sample, you must have Oracle Essbase and Essbase Integration Services Console installed.

Alternatively, you can set up the smaller Essbase cube GODBReduced.zip which is a filtered version of the full version, GODWENU. To set up the small version, unzip GODBReduced.zip, load the otl and txt file in the Essbase environment before you follow the procedure.

Procedure
1. Go to the c10_location\webcontent\samples\datasources\cubes\Essbase\Outlines_and_Raw_Data directory.
   This directory contains zip files for the different languages, such as EN.zip or JA.zip for English and Japanese, respectively.
2. Unzip the file for your language.
   Each zip file contains the following two files:
   • languageU_Data.txt, such as ENU_Data.txt or JAU_Data.txt.
   • GODWlanguageU.otl, such as GODWENU.otl or GODWJAU.otl.
3. Using block storage in Essbase, create a Unicode application.
4. Within the application, create a new database.
   You can use GODWlanguageU, such as GODWENU or GODWJAU, as your database name, or use the name of your choice.
5. Copy and paste the GODWlanguageU.otl file in your database directory.
6. If the database name specified in step 4 is different than GODWlanguageU, rename the GODWlanguageU.otl file to match the database name that you created.
   Confirm that you want to overwrite the otl file.
7. In Essbase Administration Services console, open your database outline and save it.
   Confirm that you want to save the outline even if it was not changed.
8. Copy the languageU_Data.txt file and paste it in the same directory as the otl file.
9. In Essbase Administration Services console, right-click the database you created and select Load Data.
10. Browse to the languageU_Data.txt file in your database directory, select the file, and click OK.
11. After the data loads successfully, right-click the database and select Execute Calculation.
12. Select the default calculation, and click OK.
   The calculation process may take up to 5 hours, depending on the computer where Essbase OLAP Server is installed.
**Results**

You can now create a data source connection to the cube.

---

**Creating Data Source Connections to OLAP Data Sources**

IBM Cognos Business Intelligence provides OLAP samples.

Samples are accessible to everyone by default. To create customized data sources, you must have execute permissions for the **Data Source Connections** secured feature, and traverse permissions for the **Administration** secured function. You must have write permissions for the Cognos namespace.

The OLAP samples are:
- GO Sales Fact and GO Finance Fact Microsoft Analysis Services cubes
- Sample Outdoors Company cubes which includes sales_and_marketing, employee_expenses, go_accessories, go_americas, go_asia_pacific, and great_outdoors_sales_en.
- Sample Outdoors DB2 cube

You must create data source connections to the cubes to use the samples. You must set up the Microsoft Analysis Services cube samples, or set up the Oracle Essbase cube sample, if you are using them, before creating data source connections.

---

**Create Data Source Connections to PowerCubes**

Use the following procedure to create a data source connection to a PowerCube.

**Procedure**

1. Open IBM Cognos Administration by connecting to the IBM Cognos BI portal and clicking **Administer IBM Cognos Content** on the **Welcome** page.
2. Click the **Configuration** tab.
3. Click the new data source button.
   **Note:** You must add a data source connection for each cube.
4. To create a data source connection for the Sales and Marketing cube, type `sales_and_marketing` in the Name box, and then click Next.
5. In the connection page, under **Type** click **IBM Cognos PowerCube**, and then click Next.
   The connection string page for the selected database appears.
6. Optional: In the **Read cache size (MB)** box, type the cache size of the cube in megabytes.
   If you leave this field blank or type 0, IBM Cognos Connection uses the default value in the ppds_cfg.xml file in the configuration folder.
7. In the **Windows location** box, type the location and name of the sales_and_marketing.mdc file for the data source connection. For example, type `c10_location/webcontent/samples/datasources/cubes/PowerCubes/En/Sales_and_Marketing.mdc`
   You can define a Microsoft Windows operating system path or a UNIX operating system path.
If you define a UNIX path and you plan to use Framework Manager, you must also define the Windows path and ensure that the cube is also available in the Windows location. Framework Manager can access cubes only from Windows locations.

8. To test whether the parameters are correct, do the following:
   - Click **Test the connection**.
   - Click **Test**.
   - When the test finishes, click **Close** twice.

9. Click **Finish**.

**Results**

You can now import the IBM_Cognos_Powercube.zip sample package for the PowerCube to use this data source or you can create your own package using the cube.

**Create Data Source Connections to Oracle Essbase Cubes**

Use the following procedure to create a data source connection to an Oracle Essbase cube.

**Note:** To connect to an Oracle Essbase data source, the client software must be installed and configured on the IBM Cognos Business Intelligence server and in the same location as IBM Cognos Framework Manager.

**Procedure**

1. Launch IBM Cognos Administration.
2. On the **Configuration** tab, click **New Data Source**.
3. In the name and description page, type a unique name for the data source and, optionally, a description and screen tip, and then select **Next**.
4. In the connection page, from the Type drop-down list, select **Oracle Essbase**, and then click **Next**. The connection string page appears.
5. Type the name of the Oracle Essbase sever.
6. Select **Signons**, and then click **Password** and **Create a signon the Everyone group can use**.
7. Type the User ID, Password, and then confirm the password for the cube.
8. Select **Test the connection**, and then **Test** to test whether parameters are correct. In the Status column, you can see if the connection was successful. If it was unsuccessful, select **Close**, return to the previous steps, and verify your connection parameters. If it was successful, go to the next step.

9. Click **Finish**.

**Results**

To use this data source, you must create a package using this data source in Framework Manager, and then publish the package.

**Create Data Source Connections to Microsoft Analysis Service Cubes**

Use the following procedure to create a data source connection to a Microsoft Analysis Service cube.
**Procedure**

1. Open IBM Cognos Administration by connecting to the IBM Cognos BI portal and clicking **Administer IBM Cognos Content** on the **Welcome** page.

2. On the **Configuration** tab, click **New Data Source**.

3. In the **Name** box, type the name of the data source connection, and then click **Next**.
   - For the GOFinanceFact cube, type GOFinanceFact_XX_MSAS2005.
   - For the GOSalesFact cube, type GOSalesFact_XX_MSAS2005.

4. In the **Specify Connection** page of the New Datasource Wizard, click **Microsoft Analysis Services 2005**.

5. Click **Next**.

6. In the **Server Name** box, type the name of the server where the restored databases are located. Back slashes are not required.

7. Under **Signon**, select the **Password** check box and then select the **Create a signon that the Everyone group can use** check box. Type the user ID and password for the MSAS2005 database. For MSAS2005, this is a network login.

8. Click **Test the connection**, and then click the **Test** button. Click **Close**.

9. Click **Finish**. You are now prompted to create a package.

   Alternatively, you can deploy an existing package from a sample deployment archive. The names of the deployment archives match the datasource connection names specified in step 4 and contain sample reports that work with the associated cubes.

   In Content Administration on the Configuration tab in IBM Cognos Administration, click **New Import**. The New Import Wizard prompts you to select a deployment archive. When you select a deployment archive, it is important to click **Edit** and specify a target name for the package to prevent an existing package from being overwritten.

10. To create a package, check **Create a Package** and then click **OK**.

11. Specify a package name and then click OK.
   - For the GO Finance Fact cube, type GOFinanceFact_XX_MSAS2005.
   - For the GO Sales Fact cube, type GOSalesFact_XX_MSAS2005.

12. Specify the Analysis Services database you restored either GOFinanceFact_XX or GoSalesFact_XX:
   - For either the GOFinanceFact cube or the GOSalesFact cubes, type GOSALES.DW.
   - For the GO Sales Fact cube, type GO Sales Fact.

13. Click the cube applicable to the database.

14. Click **Finish**.

---

**Setting up the Metric Studio sample**

To set up the Metric Studio sample, you must create a metric store and a new metric package, set the import source, and import the metric data and files into the metric store.

1. Create a metric store named **GOMETRIC**.

2. Create a new metric package named GO Metrics that uses the data source named **go_metrics**.
When prompted by the wizard, select the standard Gregorian calendar and accept the defaults for Years, Quarters, and Months. Select January 1, 2010 as the start date for a period that includes the current year, and use a period of at least five years.

3. Set the import source.
4. Import the metric data and files into the metric store.

**Set the import source**

To set up the Metric Studio sample, you must set the import source.

**Procedure**

1. Copy all text files from the appropriate folder to the `c10_location/deployment/cmm` folder:
   - For Microsoft SQL Server or Oracle, copy from `c10_location/webcontent/samples/datasources/metricsdata/GOMetrics_Unicode`
   - For DB2, copy from `c10_location/webcontent/samples/datasources/metricsdata/GOMetrics_UTF8`
   - For all databases, for English instead of the multilingual Unicode samples, copy from `c10_location/webcontent/samples/datasources/metricsdata/GOMetrics`

   **Note:** You may need to create the `cmm` folder.

2. In Public Folders, click GO Metrics.
3. In Metric Studio, in the Tools list, click Import Sources.
4. Click the Set Properties icon in the Actions column next to the Default Import Source.
5. Under Metric Deployment Location, click cmm folder. This is the default deployment location.
6. In the File format box, click 10.1.1.
7. Under Character Set Encoding, select the appropriate encoding and click OK.
   - For Microsoft SQL Server or Oracle, select Unicode (UTF-16)
   - For DB2, select Unicode (UTF-8)
   - For GO Metrics data set, select Western European (Windows-1252), or leave the data set empty by selecting Other.
8. If you are using IBM DB2, accept the default choice for the Decimal separator value.

**Results**

You can now use the GO Metrics package in Metric Studio.

**Import metric data and files into the metric store**

To set up the Metric Studio sample, you must import the metric data and files into the metric store.

**Procedure**

1. Choose whether to import the files into the metric store using IBM Cognos Connection or Metric Studio:
To use IBM Cognos Connection, in Public Folders or My Folders, open the GO Metrics package by clicking the view metric package contents icon in the Actions column. Click Metric Maintenance.

To use Metric Studio, in Metric Studio, in the Tools list, click Metric Maintenance.

2. Click the Import and transfer data from files into metric store metric task.

Tip: If an error occurs, click Clear staging area rejected data logs, Clear metric history data only, and Clear metric history and calendar data.

Results

You can now use the GO Metrics package in Metric Studio.

Import the samples

To use the sample package and other content, you must import them from the sample deployment archive.

Before you begin

Before you import the deployment archives other than IBM_Cognos_PowerCube.zip, you must restore the databases. You must also create data source connections to the samples databases. Every deployment requires a data source connection in order to run reports.

Before you import the IBM_Cognos_PowerCube.zip deployment archive, you must create a database connection to the appropriate PowerCube and select the language that you want to use. The language that you select must be supported by your locale.

Procedure

1. Copy the zip file from the c10_location/webcontent/samples/content directory to the directory where your deployment archives are saved. The default location is c10_location/deployment. The location is set in the configuration tool. For information about changing the location, see the configuration tool online help.

2. Open IBM Cognos Administration by connecting to the IBM Cognos BI portal and clicking Administer IBM Cognos Content on the Welcome page.

3. On the Configuration tab, click Content Administration.

   Note: To access this area in IBM Cognos Administration, you must have the required permissions for the Administration tasks secured feature.

4. On the toolbar, click the New Import button.

   The New Import wizard appears.

5. In the Deployment Archive box select the archive:
   - IBM_Cognos_Samples
   - IBM_Cognos_PowerCube
   - IBM_Cognos_Metrics
   - IBM_Cognos_DrillThroughSamples
   - IBM_Cognos_Audit
   - IBM_Cognos_Mobile
Note: IBM_Cognos_Samples_DQ and IBM_Cognos_DynamicCube deployment archives require a dynamic query datasource connection.

6. Click Next.

7. Type a unique name and an optional description and screen tip for the deployment archive, select the folder where you want to save it, and then click Next.

8. In the Public Folders Content box, select the folders that you want to import. The IBM_Cognos_Samples deployment archive has a single folder named Samples with subfolders: Models and Sample Template. The Models folder contains the following packages or folders:
   - GO Data Warehouse (analysis), GO Data Warehouse (query), GO Sales (analysis), GO Sales (query).
   - Dashboard Folder, Dashboard Objects, Cognos Workspace Samples, Interactive Samples

The Cognos Workspace Advanced folder from the GO Data Warehouse (analysis) package contains reports used for external data.

The IBM_Cognos_PowerCube deployment archive has packages or folders for the following languages:
   - English - Sales and Marketing (cube)
   - French - localized packages
   - German - localized packages
   - Japanese - localized packages
   - Simplified Chinese - localized packages

The IBM_Cognos_Metrics deployment archive has the GO Metrics package.

The IBM_Cognos_Mobile deployment contains the Sales and Marketing (cube) folder in five languages: English, French, German, Japanese and Chinese. You must set up a data source connection for the Sales and Marketing cube. A separate connection is required for each language.

The IBM_Cognos_Office deployment contains:
   - GO Data Warehouse (analysis)
   - GO Data Warehouse (query)
   - GO Sales (analysis)
   - Sales and Marketing cube

The IBM_Cognos_DrillThroughSamples deployment archive has the following packages and folders:
   - Sales and Marketing (cube) package in five languages: English, French, German, Japanese, and Chinese
   - GO Data Warehouse (analysis)
   - GO Data Warehouse (query)

For the IBM_Cognos_DrillThroughSamples deployment archive, you must set up data source connections for the following data sources:
• the sales and marketing cube. A separate connection is required for each language.
• the great_outdoors_sales.
• the great_outdoors_warehouse.

9. Select the options you want, along with your conflict resolution choice for options that you select, and then click Next.

10. In the Specify the general options page, select whether to include access permissions and references to external namespaces, and who should own the entries after they are imported.

11. Click Next.

The summary information appears.

12. Review the summary information and click Next.

13. Select the action that you want:
   • To run once now or later, click Save and run once. Click Finish, specify the time and date for the run, then click Run. Review the run time and click OK.
   • To schedule at a recurring time, click Save and schedule. Click Finish, and then select frequency and start and end dates. Click OK.
   • To save without scheduling or running, click Save only and click Finish.

14. When the import is submitted, click Finish.

Results

You can now use the sample packages to create reports and analyses in Report Studio, Query Studio, and Analysis Studio, view extracts in Metric Designer, or create agents in Event Studio. You can also run the sample reports that are available on the Public Folders tab in the portal.

Framework Manager Sample Database Models

Sample models that are included with IBM Cognos Business Intelligence provide information for the fictional company, the Sample Outdoors.

The samples include
• great_outdoors_sales, which refers to the samples database GOSALES
• great_outdoors_warehouse, which refers to the database GOSALES DW
• gosales_scriptplayer, which refers to the samples databases GOSALES

You can use sample database models on different platforms. For information about moving models from one platform to another, see the Framework Manager User Guide.

Note: Transformer uses some of the reports in the GO Data warehouse (query) package as source data for various cubes. These reports are meant to be simple list reports with no formatting. The description information for the reports indicates if the report was developed to be source data for Transformer.

GO Sales Model

This model contains sales analysis information for the fictional company, The Sample Outdoors. It also has the query items required by the Event Studio samples. The model accesses three schemas and has two packages. One package is
based on the dimensional view and the other is based on the query (relational) view.

**GO Data Warehouse Model**

This model contains financial, human resources, and sales and marketing information for the fictional company, The Sample Outdoors. The model accesses a dimensional relational data source. The model has two packages. One package is based on the dimensional view, the other is based on the query (relational) view.

**GO Sales Scriptplayer**

These files can be used to run the action logs in sequence. This action generates a model named gosales_scriptplayer, and publishes a package to the content store.

### Setting up the samples for IBM Cognos Dynamic Cubes

You can use the sample data to learn how to design and model dynamic cubes and use the data in reporting environments. You can safely use the samples instead of accessing corporate data.

For more information about the samples, see the *IBM Cognos Dynamic Cubes User Guide* and online help.

Before you can use the samples, IBM Cognos Business Intelligence and IBM Cognos Dynamic Cubes must be installed, configured, and running.

**Sample Models**

The IBM Cognos Dynamic Cubes samples are based on the `model.fmd` sample database model. This model refers to the GOSALES DW database that contains sample data that other IBM Cognos products use. In Microsoft SQL Server, the dynamic cube uses the GOSALES DW database. In IBM DB2 and Oracle, the dynamic cube uses a single schema from the database.

This model is available in the `c10_location/webcontent/samples/models/great_outdoors_dynamiccube/data_source_type` directory.

### Installation of IBM Cognos Dynamic Cubes samples

The IBM Cognos BI samples illustrate product features and technical and business best practices. You can also use them for experimenting with report design techniques, and for troubleshooting.

After you install the IBM Cognos BI samples, the sample models for IBM Cognos Dynamic Cubes is available in the following location: `c10_location/webcontent/samples/datasources/models`.

**Installing the IBM Cognos BI samples on a UNIX or Linux computer**

Samples for IBM Cognos Dynamic Cubes are available on the IBM Cognos Business Intelligence Samples disk.
About this task

Install the samples on the gateway computer and in the same location as the gateway component. Install in a directory that contains only ASCII characters in the path name. Some servers do not support non-ASCII characters in directory names.

Use the following procedure to install the IBM Cognos Business Intelligence samples on UNIX or Linux operating systems.

Procedure

1. Mount the IBM Cognos product disk using Rock Ridge file extensions or go to the location where the installation files were downloaded.
   
   To mount the IBM Cognos disk on HP-UX, complete the following tasks:
   a. Add the `pfs_mount` directory in your path. For example,
   ```
   PATH=/usr/sbin/:$PATH
   export PATH
   ```
   b. To start the required NFS daemons and run the daemons in the background, type `bg pfs_mountd` and then type `bg pfsd`
   c. To mount the drive, type
   ```
   pfs_mount -t rrip &ltdevice&gt; &ltmount_dir&gt; -o xlat=unix
   ```
   For example, type `pfs_mount /dev/dsk/c0t2d0 /cdrom -o xlat=unix`
   You can now install or copy files as a non-root user using an IBM Cognos disk from this drive.
   d. When the installation is complete, type `pfs_umount /cdrom` and kill the pfsd and pfs_mountd daemons to unmount the disk.

2. To start the installation wizard, go to the operating system directory and type
   ```
   ./issetup
   ```

   **Important:** When you use the issetup command with X Window System, Japanese characters in messages and log files may be corrupted. When installing in Japanese on UNIX, first set environment variables LANG=C and LC_ALL=C (where C is the language code; for example, ja_JP.PCK on Solaris), and then run an unattended installation.

   If you are not using X Window System, run an unattended installation of the samples.

3. Follow the directions in the installation wizard, and copy the required files to your computer.
   Install the samples in the same location as the server components.

4. In the Finish page of the installation wizard, click Finish.

Installing the IBM Cognos BI samples on a Windows computer

Samples for IBM Cognos Dynamic Cubes are available on the IBM Cognos Business Intelligence Samples disk.

About this task

The IBM Cognos BI samples illustrate product features and technical and business best practices. You can also use them for experimenting with report design techniques, and for troubleshooting.
Use the following procedure to install the IBM Cognos Business Intelligence samples on Microsoft Windows operating systems.

**Procedure**

1. Insert the Samples disk or go to the location where the installation files were downloaded and extracted.
   The **Welcome** page of the installation wizard appears.
2. If no **Welcome** page appears, go to the operating system directory, and double-click the `issetup.exe` file.
3. Select the language to use for the installation.
   The language that you select determines the language of the user interface. You can change the language to any of the installed languages after installation.
4. Follow the directions in the installation wizard to copy the required files to your computer.
   Install the samples in the same location as the server components.
5. In the **Finish** page of the installation wizard, click **Finish**.
6. Click **Finish**.

**Restoration of the samples dynamic cubes**

To use the samples, you must restore backup files for the samples dynamic cubes. This action recreates multilingual versions of the samples dynamic cubes.

You must restore the Sample Outdoors sales data warehouse sample database (GOSALESWD).

- For Microsoft SQL Server, the database is delivered as a Microsoft SQL Server backup file.
- For Oracle, extract the `GS_DB_ORA.tar.gz` file from `c10_location\webcontent\samples\datasources\oracle`.
  The Oracle databases are located in `GS_DB_ORA\data`.
- For DB2, extract the `GS_DB.tar.gz` file from `c10_location\webcontent\samples\datasources\db2`.
  The DB2 databases are located in `GS_DB\data`.

**Considerations for restoring the sample databases**

When restoring the samples databases, ensure that the following tasks are completed:

- Give the restored databases the same names as the backup or export file names. The names are case-sensitive.
  Use the correct username and password.
- Create users with select privileges for tables in multiple schemas.
  Setup for the GO Data Warehouse packages specifies a single connection object and user signon. This type of setup requires a single user named GOSALESWD with the select privilege to tables in a single schema named GOSALESWD.
- To see reports in multiple languages, use the UTF-8 character set on the Microsoft Windows operating system computer that is the Oracle or DB2 client.
  For DB2, you must set the `DB2CODEPAGE` environment variable to a value of 1208. For Oracle, you must set the `NLS_LANG` environment variable to a value that is specific to a region; for example, set `NLS_LANG` for Americas to `American_America.UTF8`. 
• Have sufficient disk space available in the target location. Reserve 150 MB for the GO Sales data (four schemas) and 200 MB for the GO Data Warehouse data (one schema).

Considerations for Oracle

To create foreign key constraints in tables that reference different schemas, you must run gs_or_modify.sql, found in the same folder as the .dmp files.

Considerations for Microsoft SQL Server

If you restore the Microsoft SQL Server backup files, you must use Microsoft SQL Server 2000 or Microsoft SQL Server 2005. Ensure that TCP/IP connectivity is used for the Microsoft SQL Server.

Considerations for DB2

The data files for db2move and the scripts, to add constraints, are in the data directory. The data directory is created when you extract the GS_DB.tar.gz file.

If you use WinZip to extract the DB2 move file on a Windows operating system, ensure that the **TAR file smart CR/LF conversion** option is not selected. After extracting the DB2 move file, restore the schemas to a database named GS_DB.

**Restoring backup files for the samples databases or dynamic cubes**

Use this procedure to restore backup files.

**Procedure**

1. On the computer where IBM Cognos BI is installed, go to the sql server, oracle, or db2 directory in c10_location/webcontent/samples/datasources.
2. If required, copy the backup files for the samples databases to your database backup directory.
   To ensure the security and integrity of IBM Cognos BI, copy the files to a directory that is protected from unauthorized or inappropriate access.
3. Restore the samples databases by using your database management tool.
   **Remember:**
   • For SQL Server backup files, restore the database from a device, and ensure that the restore locations are correct for the .ldf and .mdf database files. For more information, see the Microsoft SQL Server documentation or the IBM Cognos Knowledge Base on the [IBM Cognos Customer Center](http://www.ibm.com/software/data/cognos/customercenter/).
   • For DB2, when you create the GS_DB database, create a buffer pool with a page size of 16 KB and an associated table space.
4. For each database, create at least one user who has select permissions for all the tables in the restored databases.

**Results**

You can now create the data source connections in the portal.
Creating a data source connection to the sample cubes

You must create a data source connection to the sample dynamic cubes that you restored. IBM Cognos BI uses this information to connect to the cubes and run the sample reports that use the sample dynamic cubes.

Before you begin

Before you create the data source connections, you must ensure that the following tasks are completed:

- Restore the backup file for the samples database.
- Ensure that the IBM Cognos BI service is running.
- Ensure that you have execute permissions for the Data Source Connections secured feature, and traverse permissions for the Administration secured function. You must have write permissions for the Cognos namespace.
- Set up your database client to access the database instance where you restored the samples.
- The DB2 database name that you type must use uppercase letters. Also, in Framework Manager, the schema names that you type for the DB2 data sources must use uppercase letters.

About this task

You must create connections to the GOSALESDW sample database. This database contains sample data that other IBM Cognos products use. For more information, see the samples information in the IBM Cognos Administration and Security Guide, or the IBM Cognos Business Intelligence Installation and Configuration Guide.

Procedure

1. Open IBM Cognos Administration.
   a. Connect to the IBM Cognos BI portal.
   b. On the Welcome page, click Administer IBM Cognos content.
2. On the Configuration tab, click Data Source Connections.
3. Click the new data source icon.
4. In the Name box, type great_outdoors_warehouse and then click Next.
5. In the connection page, from the Type list, click the type of database that you restored and want to connect to, select an isolation level, and then click Next. The connection string page for the selected database is displayed.

   **Important:** The user specified must have select privileges on the tables in the GOSALESDW schema.

6. Complete one or more of the following tasks based on the database that you restored:
   - If you restored the samples database in Microsoft SQL Server, in the Server Name box, type the name of the server where the restored database is located. In the Database name box, type GOSALESDW.
   - IBM Cognos BI samples require TCP/IP connectivity with Microsoft SQL Server. Ensure that the SQL Server Security is set to SQL Server and Microsoft Windows operating system, instead of Windows Only. The samples use SQL Server security for authentication.
• If you restored the samples databases in Oracle, in the SQL*Net connection box, type the instance name of the Oracle database as it is entered in the tnsnames.ora file.
• If you restored the samples database in DB2, in the DB2 database name box, use uppercase letter to type GS_DB. Leave the DB2 connection string box blank.
7. Under Signons, select both the Password and Create a signon that the Everyone group can use check boxes, type the user ID and password for the user that you created when you restored the database, and then click Finish.

   Tip: To test whether the parameters are correct, click Test the connection.
8. Click Finish.

Results

The Sample Outdoors data source connection appears as entry in Data Source Connections. You can now import the sample dynamic cubes.

Importing the IBM Cognos Dynamic Cubes sample deployments

To use the sample package, you must import it from the sample deployment archive.

About this task

The deployment archive (IBM_Cognos_DynamicCubes.zip) that contains the reports that use the dynamic cube is available in the following location: c10_location/webcontent/samples/. This archive contains the package that is required for the IBM Cognos Dynamic Cubes samples.

Procedure

1. Copy the zip file from the c10_location/webcontent/samples/content directory to the directory where your deployment archives are saved.
   The default location is c10_location/deployment. The location is set in the configuration tool. For information about changing the location, see the configuration tool online help.
2. Open IBM Cognos Administration.
   a. Connect to the IBM Cognos BI portal.
   b. On the Welcome page, click Administer IBM Cognos content.
3. On the Configuration tab, click Content Administration.

   Important: To access this area in IBM Cognos Administration, you must have the required permissions for the Administration tasks secured feature.
4. On the toolbar, click the New Import button .
5. In the New Import wizard, in the Deployment Archive box, select the IBM_Cognos_DynamicCube archive, and click Next.
6. Type a unique name and an optional description, including a screen tip for the deployment archive, select the folder where you want to save it, and click Next.
7. In the Public Folders Content box, select the packages and folders that you want to import.
The IBM_Cognos_Samples deployment archive has a single folder named Samples with subfolders: Models and Sample Template.

8. Select the options that you want and your conflict resolution choice for options that you select, and click Next.

9. In the Specify the general options page, select whether to include access permissions and references to external namespaces, and who owns the entries after they are imported, and click Next.

10. Review the summary information, and click Next.

11. Choose how you want to import the sample deployment:
   - To run once now or later, click Save and run once.
     Click Finish, specify the time and date for the run, then click Run. Review the run time and click OK.
   - To schedule at a recurring time, click Save and schedule.
     Click Finish, and then select frequency and start and end dates. Click OK.

     Tip: To temporarily disable the schedule, select the Disable the schedule check box.
   - To save without scheduling or running, click Save only and click Finish.

12. When the import is submitted, click Finish.

Deploying the sample dynamic cube

To work with a deployed sample dynamic cube in the IBM Cognos studios, you can use the IBM Cognos Cube Designer to deploy the sample dynamic cube and make it available as a data source. You must have set up thegreat_outdoors_warehouse data source connection.

About this task

You do not have to publish a package to use the sample reports; the package is part of the sample deployment.

Procedure

1. From the Start menu, click Programs > IBM Cognos 10 > IBM Cognos Cube Designer.

   Tip: You can also start the IBM Cognos Cube Designer from IBM Cognos Framework Manager. From the Tools menu, select Run IBM Cognos Cube Designer.

2. Open the project that contains the dynamic cube that you want to deploy and publish.

   a. From the toolbar, click Open.

   b. Navigate to the folder that matches the data source that you are using; for example, db2 or oracle, and select model.fmd.

      The default location for the sample files is c10_location\webcontent\samples\models\great_outdoors_dynamiccube\datasource_type

3. In the Project Explorer tree, expand the project and model.

4. Right-click the gosldw_sales dynamic cube, and select Publish.

5. To deploy the dynamic cube and configure the cube as a data source, in the Publish window, expand Additional Options and select the Add the dynamic cube to the default dispatcher check box.
6. To start the dynamic cube, select the **Start the dynamic cube** check box.
7. Click **OK**.

**Results**

If the deployment and publish process is successful, no errors are reported. A message confirms that the cubes started successfully. You can now use the sample packages to create reports that rely on dynamic cube data sources. You can also run the sample reports that are available on the **Public Folders** tab in the portal.

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**Transformer Sample Models**

Cognos Transformer includes several sample models.

<table>
<thead>
<tr>
<th>Model name and description</th>
<th>Package</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales and Marketing.mdl</td>
<td>GO Data Warehouse (query) in IBM Cognos Connection</td>
<td><code>installation_location/webcontent/samples/Transformer</code></td>
</tr>
<tr>
<td>Cognos Transformer model based on the GO Data Warehouse query package.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employee Expenses.mdl</td>
<td>GO Data Warehouse (query) in IBM Cognos Connection</td>
<td><code>installation_location/webcontent/samples/Transformer</code></td>
</tr>
<tr>
<td>Cognos Transformer model based on reports that use the GO Data Warehouse query package.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Outdoors Sales.mdl</td>
<td>GO Sales (query) in IBM Cognos Connection</td>
<td><code>installation_location/webcontent/samples/Transformer</code></td>
</tr>
<tr>
<td>Cognos Transformer model based on the Sales query package.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**IBM Cognos Transformer Samples**

The IBM Cognos Transformer installation includes sample data sources, models, and cubes.

Before you can use the samples, IBM Cognos must be installed, configured, and running, and the samples must be set up.

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**Example - Running the Sample ELM Returns Agent Against Changed Data**

You can change data in the GOSALES database if an Event Studio user wants to test the sample agent ELM Returns Agent. The Event Studio user can then run the sample agent twice and detect a new event.

For more information, see the Event Studio **User Guide**.

Running the sample agent against changed data involves the following steps:

- The Event Studio user runs the sample agent against the default data and then asks you to change the data.
• You simulate the occurrence of some initial events and then ask the Event Studio user to run the sample agent a second time.
• The Event Studio user runs the sample agent against the changed data. The Event Studio user informs you when the agent has completed running.
• You simulate the passage of time and the resolution of some events and then ask the Event Studio user to run the sample agent a third time.
• The Event Studio user runs the sample agent for the final time. The Event Studio user informs you when the agent has completed running.
• You modify the data so that the ELM Returns Agent detects no events.

Example - Simulate the Occurrence of Initial Events
Run part of the Event_Studio_ELM_Agent_Modify_GOSALES.sql script to simulate data changes.

The data changes include the following:
• change the date to the current date
• change the follow-up code to -1 in four records.
  A code of -1 indicates that follow-up is required.

Procedure
1. In SQL Query Analyzer, from the File menu, click Open.
2. Go to c10_location/webcontent/samples/datasources/sqlserver and double-click the Event_Studio_ELM_Agent_Modify_GOSALES.sql file.
3. In the toolbar, from the list of databases, click GOSALES.
4. In the Query window, under Part 1, select all sixteen lines of code.
5. From the Query menu, click Execute.

Results
The database is updated with the changes.

Example - Simulate the Passage of Time and the Resolution of Some Events
Run part of the Event_Studio_ELM_Agent_Modify_GOSALES.sql script to simulate data changes.

First, change it so that two days elapsed since the ELM Returns Agent sample was last run. Second, for three of the four event instances found the last time that the ELM Returns Agent sample ran, change the follow-up code from -1 to +1. This indicates that only one of these event instances still requires follow-up and the other instances are resolved.

Procedure
1. In SQL Query Analyzer, from the File menu, click Open.
2. Go to c10_location/webcontent/samples/datasources/sqlserver and double-click the Event_Studio_ELM_Agent_Modify_GOSALES.sql file.
3. On the toolbar, click GOSALES from the list of databases.
4. In the Query window, under Part 2, select all lines of code that appear after the comments.
5. From the Query menu, click Execute.
Results

The database is updated with the changes.

Example - Modify the Data So That the ELM Returns Agent Detects No Events

When the Event Studio user finishes running the sample ELM Returns Agent against changed data, they should notify you.

You can then modify the GOSALES database so that the agent no longer detects any event instances.

Procedure

Run the following sql commands:

- `UPDATE GOSALES.RETURNED_ITEM SET FOLLOW_UP_CODE = 0`
- `UPDATE GOSALES.RETURNED_ITEM SET ASSIGNED_TO = 0`
- `UPDATE GOSALES.RETURNED_ITEM SET DATE_ADvised = NULL`

Results

The data is modified. The sample ELM Returns Agent is ready to be used by another Event Studio Packages and Reports User.

Remove the Sample Packages and Reports from IBM Cognos BI

After you finish using the sample reports to learn about IBM Cognos Business Intelligence, including Framework Manager, you can delete the packages on which the samples are based. This action permanently removes the samples from the content store.

Procedure

1. Open IBM Cognos Connection by connecting to the IBM Cognos BI portal and clicking IBM Cognos Content on the Welcome page.
2. Click the Public Folders tab.
3. Select the check box for the sample package you want to delete.
4. Click the delete button on the toolbar, and click OK.
Chapter 3. Samples

This content explains the purpose, content and location of IBM Cognos Business Intelligence samples and the sample company, Sample Outdoors, its structure, databases, model and packages.

For information setting up the sample databases, see Chapter 2, “Setting up the samples,” on page 3.

The Sample Outdoors Company

The Sample Outdoors Company samples illustrate product features and technical and business best practices.

You can also use them for experimenting with and sharing report design techniques and for troubleshooting. As you use the samples, you can connect to features in the product.

For examples related to different kinds of businesses, see the product blueprints on the IBM Cognos Information Centers (http://pic.dhe.ibm.com/infocenter/cogic/v1r0m0/index.jsp).

The Sample Outdoors Company, or GO Sales, or any variation of the Sample Outdoors name, is the name of a fictitious business operation whose sample data is used to develop sample applications for IBM and IBM customers. Its fictitious records include sample data for sales transactions, product distribution, finance, and human resources. Any resemblance to actual names, addresses, contact numbers, or transaction values, is coincidental. Unauthorized duplication is prohibited.

Samples outline

The samples consist of the following:
• Two databases that contain all corporate data, and the related sample models for query and analysis
• Sample cubes and the related models
• A metrics data source including associated metrics and a strategy map for the consolidated company, and a model for Metric extracts.
• Reports, queries, query templates, and workspaces

To run interactive reports, scripts are required. To see all the reports included in the samples packages, copy the files from the samples content installation into deployment folder and then import the deployments into the IBM Cognos Business Intelligence product.

Security

Samples are available to all users.
The Sample Outdoors Group of Companies

To make designing examples faster, especially financial examples, some general information about The Sample Outdoors Company is useful.

To look for samples that use particular product features, see the individual sample descriptions in this section.

Revenue for The Sample Outdoors Company comes from corporate stores and from franchise operations. The revenues are consolidated from the wholly-owned subsidiaries. There are six distinct organizations, each with its own departments and sales branches. Five of these are regionally-based companies.

The sixth company, GO Accessories:

- Has its own collection of products, differentiated from the other GO companies by brand, name, price, color and size.
- Sells from a single branch to all regions and retailers.
- Functions both as an operating company based in Geneva, and as a part owner of the three GO subsidiaries in Europe.

The diagram illustrates the consolidated corporate structure, including the percentage changes in ownership for GO Central Europe, and shows the reporting currency and GL prefix for each subsidiary.

Sample Outdoors Consolidated (holding company) USD

GO Americas
(AMX 1999) USD

GO Asia Pacific
(EAX 4199) YEN

GO Accessories
(EUX 8199) EURO

Year 1 40%
Year 3 50%

GO Central Europe
(CEU 6199) EURO

Year 1 60%
Year 3 50%

GO Southern Europe
(SEU 7199) EURO

GO Northern Europe
(NEU 5199) EURO

Figure 1. Consolidated corporate structure

Each corporation has the same departmental structure and the same GL structure, shown in the table. Divisions may not report in the same currencies. For example,
the Americas subsidiary reports in US dollars, but the Corporate division local currency is Canadian dollars, and the Operations division local currency is pesos.

Table 14. Departmental structure

<table>
<thead>
<tr>
<th>Division (GL)</th>
<th>Department (GL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate (1700)</td>
<td>Sales (1720)</td>
</tr>
<tr>
<td></td>
<td>Marketing (1750)</td>
</tr>
<tr>
<td></td>
<td>IS&amp;T (1760)</td>
</tr>
<tr>
<td></td>
<td>Human Resources (1730)</td>
</tr>
<tr>
<td></td>
<td>Finance (1740)</td>
</tr>
<tr>
<td></td>
<td>Procurement (1710)</td>
</tr>
<tr>
<td>Operations (1800)</td>
<td>Production and Distribution (1820)</td>
</tr>
<tr>
<td></td>
<td>Customer Service (1820)</td>
</tr>
</tbody>
</table>

Each corporation has a complete chart of accounts. Most of the accounts, such as those under non-personnel expenses, are at the department level, and contain only summary amounts. For example, although each marketing department has expenses, the cost is unspecified at the transaction level where marketing promotions occur.

Employees

The Sample Outdoors data contains a full list of employees in all divisions, departments, and locations.

Data is available for reports about bonuses (Global Bonus report) and sales commissions (Sales Commissions for Central Europe report), training (Employee Training by Year report), and performance reviews and employee satisfaction surveys (Employee Satisfaction 2012). If you use Metric Studio, sample metrics for human resources are also available.

In the GO Data Warehouse (analysis) package, groups of measures and the related dimensions are organized into folders. The employees are organized in hierarchies for region and manager, to make different kinds of aggregation easy to report on. Aggregation has been defined for the Employee Position Summary measures, so that Position count and Planned position count aggregate correctly at each level of time: monthly, quarterly, or yearly. For example, see the Planned Headcount report.

The employees are also listed in a sample LDIF file which could be used for any LDAP IBM product authentication including Tivoli®. This authentication directory is necessary for IBM Cognos Planning samples. No other samples depend on security profiles.

Sales and marketing

Data about sales and marketing is available for all of the companies in the Sample Outdoors group.
GO Accessories has richer details to support analysis examples. For example, see the Revenue vs % Profit Margin by Product Brand analysis, based on the Sales and Marketing cube. Marketing and sales campaigns are tied to the Sample Outdoors regional companies.

Overall, the GO companies have experienced solid growth across most product lines (Sales Growth Year Over Year), in all regions (Revenue by GO Subsidiary 2011), because of factors like an increase in repeat business and new or improved products, such as the high margin sunglasses product line. In the product lines sold by the five regional companies (all but GO Accessories) promotions have had mixed success (Promotion Success by Campaign, Bundle and Quarter). If you use Metric Studio, this can also be seen in the sample metrics.

**Customer surveys**

The data also contains information from customer surveys. For example, the product line that includes bug spray, sun screen, and so on has not been successful (Product Satisfaction - Outdoor Protection 2011) and a source of retailer dissatisfaction may be the level of customer service rather than the returns (Customer Returns and Satisfaction). If you use Metric Studio, this information can also be monitored in metrics.

**Sales outlets**

Revenue from the corporate outlets is available at the transaction level. Revenue from the franchise outlets is available at the consolidated level only (Sales and Marketing cube). Metrics about retailers show that the number of new retail outlets has dropped over the time period covered by this data.

GO Accessories sells worldwide, and sells only accessories. Transaction data for GO Accessories is the primary source for analysis of product by brand, color and size. The other five subsidiaries in the group of companies are regional and sell all product lines for retailers in their region. For example, the report Top 10 Retailers in 2011 uses sparklines and list data to review revenues at the retailer level.

---

**Sample Outdoors database, models, and packages**

The Sample Outdoors Framework Manager models illustrate modeling techniques and support the samples.

The models are based on the GO data warehouse and the GO sales transactional database and are the basis for the sample reports and queries. Each model contains two packages for publishing analysis (dimensional) and query views of the data.

You must have access to Framework Manager, the modeling tool in IBM Cognos Business Intelligence, to look at the sample models. You may also need to set up the sample databases and connections.

**GO Data Warehouse**

The GO Data Warehouse model, great_outdoors_data_warehouse.cpf, is based on the database GOSALES_RW. It contains data about human resources, sales and marketing, and finance, grouped into business areas. In the Database view, the three business areas are grouped into separate namespaces. The Database view contains a fourth namespace (GO Data) for the common information.
The Database view is very similar to the structure of the underlying database. All tables (database query subjects) are unchanged. This enables IBM Cognos BI to retrieve metadata directly from the package in most cases, instead of using a metadata call to the database. The following changes and additions have been made in the Database view:

- Joins have been added as necessary.
- To allow for aggregation at different levels of granularity, some model query subjects have been created. For example, see the relationships between Time and Sales or Sales fact.
- To allow single joins to be made between the lookup tables and each level in a dimension, lookup tables have been copied. For example, see the Products lookup tables.

The Business view contains only model query subjects, with no joins. The following changes and additions have been made in the Business view:

- Calculations were added to the model query subjects. For example, the time dimension contains language calculations.
- Where the database has multiple hierarchies, new dimensions have been created to organize each hierarchy. For example, the employee hierarchies are organized into several categories, such as manager and region.

The **GO Sales transactional database**

The GO Sales model, great_outdoors_sales.cpf, is based on the GOSALES database, which is structured as a transactional database. It contains principally sales data.

The Database view is very similar to the underlying database structure. The following changes and additions have been made in the Database view:

- To make it possible to join the fact tables to the time dimension, model query subjects and multipart joins have been used.
- Other joins have been added as necessary.

The Business view contains only model query subjects, with no joins. The following changes and additions have been made in the Business view:

- Calculations were added to the model query subjects.
- Model query subjects that were created in the Database view to enable joins on the time dimension have been linked as reference shortcuts.
- Where the database has multiple hierarchies, new dimensions have been created to organize each hierarchy.
- Sales Staff is a subset of the slowly changing Employee dimension. There is no unique Employee key in GO Sales, so a filter retrieves the current record only. This model does not use historical data.

**The samples PowerCubes**

The following cubes are delivered with the Sample Outdoors samples in English, French, German, Japanese and Chinese:

- sales_and_marketing.mdc
- employee_expenses.mdc
- go_accessories.mdc
- go_americas.mdc
• go_asia_pacific.mdc
• great_outdoors_sales_en.mdc
• great_outdoors_7.mdc

**The samples packages**

The Sample Outdoors samples include six packages. A brief description of each available package is provided.

Go Data Warehouse (analysis) is a dimensionally modeled view of the GOSALESDW database. This package can be used in all studios, including IBM Cognos Analysis Studio. Using this package you can drill up and down.

Go Sales (analysis) is a dimensionally modeled view of the GOSALES database. This package can be used in all studios, including Analysis Studio. Using this package you can drill up and down.

Go Data Warehouse (query) is a non-dimensional view of the GOSALESDW database. This package can be used in all studios except Analysis Studio, and is useful for reporting when there is no need for drilling up and down.

Go Sales (query) is a non-dimension view of the GOSALES database. This package can be used in all studios except Analysis Studio, and is useful for reporting when there is no need for drilling up and down.

Sales and Marketing (cube) is an OLAP package, based on the sales_and_marketing.mdc cube.

Great Outdoor Sales (cube) is an OLAP package, based on the great_outdoors_sales_en.mdc cube.

**Note:** The OLAP packages, Great Outdoor Sales (cube) and Sales and Marketing (cube), are not multilingual. The IBM_Cognos_PowerCube.zip archive contains five versions of each package; one in English, French, German, Japanese and Chinese.

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**Audit Reports**

Use audit reports to view the information in a logging database about user and report activity.

You may find this useful for such things as:

• capacity planning
• licensing conformance
• performance monitoring
• identifying unused content

The information in this section is intended to help you model the audit logging database in Framework Manager and create reports based on your logging data.

**Setting Up Audit Reporting**

Before you can create audit reports or use the sample audit reports that come with IBM Cognos software, you must set up audit reporting.
Procedure
1. Direct log messages to a database.
   Set up a logging database and configure log messages to be sent to the database.
   
   **Important:** The logging database must be separate from the Content Store database.

2. Set the logging level for audit reports.
   For audit reporting, set the logging level to Basic (auditing enabled) or Request. If you set the logging level to Minimum, auditing is disabled. Use Full logging and Trace levels only for detailed troubleshooting purposes, under the guidance of Customer Support. They may significantly degrade server performance.

3. Enable native query logging.

Sample Audit Model and Audit Reports
IBM Cognos software includes a sample model and sample audit reports that you can use.

Sample Audit Model
IBM Cognos software includes a sample audit model in Framework Manager. The default location is `c10_location/webcontent/samples/models/Audit/Audit.cpf`.

Sample Audit Reports
The following table lists the sample audit reports and describes the content of each report.

The default location for the deployment file, `IBM_Cognos_Audit.zip` is `c10_location/webcontent/samples/content/IBM_Cognos_Audit.zip`.

Before you can use them, you must set up the sample audit reports.

*Table 15. Sample audit reports

<table>
<thead>
<tr>
<th>Audit report name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agent execution history by user</td>
<td>Lists the agents that were run by user, date, and time. It includes a bar chart. You can select a date and time range.</td>
</tr>
<tr>
<td>Daily average and poor exceptions - all services</td>
<td>Shows how to monitor daily average and poor exceptions of thresholds set in <em>IBM Cognos Administration</em> for all services using an agent. An email with attached report output is sent to the administrator when average and poor exceptions occur. To run this report properly, you must first set thresholds in <em>IBM Cognos Administration</em>. To receive an email, you must specify a mail server account.</td>
</tr>
<tr>
<td>Daily metric exceptions</td>
<td>Lists daily metric exceptions for all services.</td>
</tr>
<tr>
<td>Audit report name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Execute reports by package and report</td>
<td>Lists the reports that were run, by package. It also includes the user, timestamp, and execution time in milliseconds for each report. You can select a date and time range, one or more users, one or more packages, and one or more reports.</td>
</tr>
<tr>
<td>Execute reports by tenant</td>
<td>Lists the tenant IDs and tenant users. This report provides package, report, and time stamp information.</td>
</tr>
<tr>
<td>Execute reports by user</td>
<td>Lists the reports that were run, by user and by package. It also includes the timestamp and execution time in milliseconds for each report. You can select a date and time range, one or more users, one or more packages, and one or more reports.</td>
</tr>
<tr>
<td>Execution history by user</td>
<td>Lists the reports that were run alphabetically, along with the package and timestamp, by user, since the logging database was created. It includes the total number of reports each user ran and the total number of times each user ran each report. It also includes the total number of reports run by all users. You can select one or more users for the report. After you run the audit report, you can choose to view the statistics for a particular report or for all reports.</td>
</tr>
<tr>
<td>Failed report executions - by package</td>
<td>Lists report failure executions by package and includes a pie chart, which also shows the failed percentage of each package.</td>
</tr>
<tr>
<td>Failed service requests detect agent - all services</td>
<td>Detects preset thresholds for service request failures that are exceeded. An email is sent to the administrator with service failure metrics information. The report Service requests metrics - day report is run. To run this report properly, you must first set thresholds in IBM Cognos Administration. To receive an email, you must specify a mail server account.</td>
</tr>
<tr>
<td>Logon operations by time stamp</td>
<td>Shows logon and logoff timestamps and operations, by user. It also includes the total number of logons and the total number of logons for each user. You can select the time period and one or more users for the report.</td>
</tr>
<tr>
<td>Logon operations by tenant</td>
<td>Lists the logon actions for each tenant ID and provides the total number of logons for each user and tenant ID.</td>
</tr>
<tr>
<td>Logon operations by user name</td>
<td>Shows logon and logoff timestamp by user, along with the type of logoff operation that occurred. It includes the total number of logons and the total number of logons for each user. You can select one or more users for the report.</td>
</tr>
<tr>
<td>Audit report name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Migration exceptions</td>
<td>A list report shows exceptions for migration tasks.</td>
</tr>
<tr>
<td>Operations by selected object and users</td>
<td>Shows the operations that are performed on target objects, by user. It includes the target object path, timestamp, and the status of the operation.</td>
</tr>
<tr>
<td></td>
<td>You can select one or more objects, operations, or users for the report.</td>
</tr>
<tr>
<td>Report execution history (detailed report)</td>
<td>Lists reports alphabetically along with the associated package and the timestamp for each time the report was executed.</td>
</tr>
<tr>
<td></td>
<td>It also shows the total number of times each report was executed and the total number of reports that were executed.</td>
</tr>
<tr>
<td></td>
<td>It also includes a color-coded pie chart that gives an overview of how often the reports are used.</td>
</tr>
<tr>
<td>Report execution and user logon history</td>
<td>This active report displays the report execution history and user logon information for a specified period of time.</td>
</tr>
<tr>
<td>Report execution history (summary report)</td>
<td>Lists reports alphabetically along with the timestamp for each time the report was run since the logging database was created.</td>
</tr>
<tr>
<td>Report execution history by tenant</td>
<td>Lists the executed reports, timestamps, and the associated package names for a tenant. This report provides a summary of total activity and the report can by filtered for a specific tenant.</td>
</tr>
<tr>
<td>Report usage</td>
<td>Lists reports by frequency of use. For each report, it lists the user and the number of times it was run by the user since the logging database was created.</td>
</tr>
<tr>
<td></td>
<td>This report can help you determine if there are any reports that are not being used. If so, you may want to remove them.</td>
</tr>
<tr>
<td>Service requests metrics - day report</td>
<td>Shows percentage of successful and failed requests for IBM Cognos services for the current day. Includes a bar chart.</td>
</tr>
<tr>
<td>User session - abnormal termination</td>
<td>Shows logon date and time of abnormally terminated user sessions. It also includes a total of session termination for all dates.</td>
</tr>
<tr>
<td></td>
<td>You can select a date and time range.</td>
</tr>
<tr>
<td>User session - details</td>
<td>Shows user session details, including the logon time, logoff time, logoff operation, and session duration.</td>
</tr>
<tr>
<td></td>
<td>It also includes the total amount of session time for each user and the total amount of session time for all users.</td>
</tr>
<tr>
<td></td>
<td>You can select a date and time range and one or more users.</td>
</tr>
<tr>
<td>User session - logon errors for past 30 days chart</td>
<td>This audit report shows a bar graph of logon failures for the past 30 days.</td>
</tr>
</tbody>
</table>
Table 15. Sample audit reports (continued)

<table>
<thead>
<tr>
<th>Audit report name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User session - summary</td>
<td>This audit report shows the average session duration by user. It also shows the total average session duration by user. You can select a date and time range and one or more users.</td>
</tr>
<tr>
<td>View reports by package for past 30 days</td>
<td>This active report displays report execution for the past 30 days. The report includes a cascading prompt.</td>
</tr>
<tr>
<td>View reports by package and report</td>
<td>Lists users, reports, timestamps, and packages for the tenant that you select.</td>
</tr>
</tbody>
</table>

Setting Up the Sample Audit Reports
You must set up sample audit reports before you can use them.

Procedure
1. Create a data source connection to the logging database. The logging database and data source in IBM Cognos Connection must be named Audit.
   To create a data source connection, follow the procedure in [Add or Modify a Data Source Connection](#). For the data source name and database name, enter the name Audit. Confirm that the connection is working.
2. Set up the Report usage report to create new data source named url_xml and using the URL as the connection string. This data source is only used by the Report usage report. For more information on setting up the report usage report, see "[Set up the Report usage report](#)" on page 24.
3. Import the sample audit reports.
   The file IBM_Cognos_Audit.zip is included with your installation and is located at c10_location/webcontent/samples/content.
   Copy the file to c10_location/deployment directory, then import the sample IBM_Cognos_Audit.zip. In the public folders content list, select the check box for Samples_Audit. For more information on importing samples, see "[Import the samples](#)" on page 24.
   The audit reports reside in the Public Folders area of IBM Cognos Connection.
4. Run the sample audit reports.
   **Tip:** In IBM Cognos Connection, click Public Folders > Samples_Audit > Audit, and click the audit report that you want to run. The Multi-tenancy reports folder contains the sample reports for a multi-tenant environment.
   Depending on the audit report that you select, you are prompted for report criteria.

Set up the Report usage report
The Report usage report lists reports by frequency of use. Before it can be used, it must be set up.

Procedure
1. If you are using the default application server (Tomcat) that is provided with IBM Cognos Business Intelligence, then in a text editor, open the web.xml file located at c10_location/webapps\p2pd\WEB-INF, and add the following XML fragment:
<servlet>
    <servlet-name>DSServlet</servlet-name>
    <servlet-class>com.cognos.demo.DSServlet</servlet-class>
</servlet>

<servlet-mapping>
    <servlet-name>DSServlet</servlet-name>
    <url-pattern>/cognos/DSServlet.jsp</url-pattern>
</servlet-mapping>

Note that the url-pattern value can be anything you choose.

2. If you are using an application server other than Tomcat, or if Content Manager and Application Tier Components are installed in separate locations, add the XML fragment from step 1 to the following files:
   - c10_location\webapps\p2pd\WEB-INF\web.xml.noCM
   - c10_location\webapps\p2pd\WEB-INF\web.xml.withCM

3. If you do not have the following directory on your system, create it:
   c10_location\webapps\p2pd\WEB-INF\classes\com\cognos\demo

4. Copy the file build.bat for Microsoft Windows operating system or build.sh for UNIX operating system located in c10_location\webapps\Audit to c10_location\webapps\p2pd\WEB-INF\classes\com\cognos\demo.

   Edit the build file to ensure the JAVA_HOME definition points to your JDK and ensure the CRN_HOME definition points to your IBM Cognos location.

5. If it is not already there, copy the DSServlet.java file from the c10_location\webapps\Audit directory to c10_location\webapps\p2pd\WEB-INF\classes\com\cognos\demo.

6. Do one of the following in the DSServlet.java file:
   - If you are allowing anonymous logon, comment out the following line:
     binding.logon(...)
   - If you are not allowing anonymous logon, make sure that the username, password, and namespace are correct and uncomment the following line:
     binding.logon(...)

7. At a command prompt, run build.bat or build.sh from c10_location\webapps\p2pd\WEB-INF\classes\com\cognos\demo to compile the Java™ source file into the class file.

8. Restart IBM Cognos software and open IBM Cognos Connection.

9. If you are using an application server other than Tomcat, rebuild the application file and then redeploy IBM Cognos BI to the application server.

10. Create a data source connection to the XML data source by doing the following:
    a. In IBM Cognos Connection, click Launch, IBM Cognos Administration.
    b. On the Configuration tab, click New Data Source.
    c. Under Name, type url_xml.
    d. Click Next.
    e. Under Type, select XML.
    f. Click Next.
    g. In the Connection string field, enter the connection string. If you used the defaults, the connection string is http://localhost:9300/p2pd/cognos/DSServlet.jsp.
    h. Click OK.
Sample reports for the dynamic query mode

Sample models and reports that are optimized for the dynamic query mode are included with IBM Cognos Business Intelligence.

When installed and deployed, you can find the updated samples in the Public Folders tab in IBM Cognos Connection, in a folder named Samples_DQ. The updated reports were also renamed with the suffix _DQ.

The samples were modified slightly to benefit from the key improvements of the dynamic query mode. For example, reports were updated to apply a specific sorting order and to specify an aggregation mode.

To access the dynamic query mode samples, you must modify the data source connections to two sample data sources to enable JDBC connections and then import the updated samples deployment archive.

Modify the data source connections to the sample data sources

To import and then use the dynamic query sample reports, you must modify the existing data source connections to two sample relational databases to enable a JDBC connection.

Procedure
1. In IBM Cognos Administration, click the Configuration tab and click Data Source Connections.
   Note: To access this area in IBM Cognos Administration, you must have the required permissions for the Administration tasks secured feature.
2. Click the great_outdoors_sales sample data source.
3. In the Actions columns, click the set properties button for the great_outdoors_sales data source connection.
4. On the Connection tab, under Connection string, click the Edit the connection string icon.
5. On the JDBC tab, select the Enable JDBC connection check box.
6. Specify the JDBC connection parameters for the data source.
7. Click Test the connection and click Test.
   On the results page of the connection test, notice the JDBC results under the Type / Query Mode column.
8. Repeat steps 1 to 6 with the great_outdoors_warehouse sample data source connection.

Import the dynamic query samples content (packages) into the content store

After you have modified the data source connections to the sample data sources, you must import the dynamic query samples content, or packages from the sample deployment archive.

The dynamic query samples are in the deployment archive named IBM_Cognos_Samples_DQ.zip.
Procedure

1. Copy the IBM_Cognos_Samples_DQ.zip file from the c10_location/webcontent/samples/content directory to the directory where your deployment archives are saved. The default location is c10_location/deployment. The location is set in the configuration tool. For information about changing the location, see the configuration tool online help.

2. In IBM Cognos Administration, click the Configuration tab and click Content Administration.

   Note: To access this area in IBM Cognos Administration, you must have the required permissions for the Administration tasks secured feature.

3. On the toolbar, click the New Import button. The New Import wizard appears.

4. In the Deployment Archive box select the archive IBM_Cognos_Samples_DQ and click Next.

5. Type a unique name and an optional description and screen tip for the deployment archive, select the folder where you want to save it, and then click Next.

6. In the Public Folders Content box, select the Samples_DQ folder.

7. Select the options you want, along with your conflict resolution choice for options that you select, and then click Next.

8. In the Specify the general options page, select whether to include access permissions and references to external namespaces, and who should own the entries after they are imported.

9. Click Next. The summary information appears.

10. Review the summary information and click Next.

11. Click Save and run once.

12. Click Finish, specify the time and date for the run, then click Run.

13. Review the run time and click OK.

14. When the import is submitted, click Finish.

Results

You can now use the dynamic query sample package to create reports and to run the sample reports that are available in the Samples_DQ folder on the Public Folders tab in the portal.

IBM Cognos Report Studio samples

IBM Cognos Report Studio includes sample reports that are based on the fictional retail company, the Sample Outdoors.

Samples in the Sample Outdoors Sales (cube) package

The following report is found in the Sample Outdoors Sales (cube) package.

Consecutive Periods Comparison

This report shows the revenue and gross profit for Camping Equipment and Personal Accessories, as well as quantity for Camping Equipment, in two consecutive periods selected by the user.
Samples in the Sales and Marketing (Cube) Package

The following reports are some of the reports found in the Sales and Marketing (Cube) package.

**Actual vs. Planned Revenue**
This report shows the actual revenue versus planned revenue by order method and year. This report is also a target for the measure based scope drill-through from other reports in the same package.

This report uses the following features:
- lists
- filters
- multiple prompts
- grouping
- sorting
- summarizing

**Historical Revenue**
This prompted report shows a 13-month rolling forecast of monthly and year-to-date revenue.

This report uses the following features:
- filters
- cascading prompts
- combination charts
- axis titles

**Revenue by Date Range**
This report shows revenue for a date range that is specified on a prompt page.

This report uses the following features:
- lists
- crosstabs
- context filters
- custom headers and footers
- multiple prompts
- calculations

**Revenue by Product Brand (2011)**
This report shows the revenue and gross profit by product filtered by the product brand. There is always product turnover, so the report conditionally highlights products that are discontinued.

This report uses the following features:
- lists
- filters
- prompts
- combination charts
- bar charts
- HTML items
• grouping
• sorting
• axis titles

**Running Total For Promotion**
This report shows planned revenue by percentage for product line. This report is optimized for mobile devices.

This report uses the following features:
• drill down
• query calculations
• crosstabs
• lists
• pie charts
• tables
• custom headers and footers

**Sales Revenue Expectation**
This report shows the goal for the percentage change in sales revenue for retailers. It uses a calculated value for forecasted revenue. This report is optimized for mobile devices.

This report uses the following features:
• crosstabs
• bar charts
• line charts
• pie charts
• calculations
• custom headers and footers
• text items

**Same Month Prior Year**
This report shows sales volume by product line in one or more months. The report is filtered by a prompt for month. The report generates totals for the selected months and for the same months in the prior year.

This report uses the following features:
• crosstabs
• prompts
• custom headers and footers

**Selected Retailer Country or Region**
This report uses the revenue from a selected country or region as a baseline value for a set of countries or regions. A chart shows the difference in revenue for each country and region as it compares to the base country and region. The report is filtered by a prompt for country and region.

This report uses the following features:
• crosstabs
• bar charts
• tables to control where objects appear
Top Retailers by Country or Region
This report shows the top 10 retailers by country or region. It is used as source for drill-through to the Total Revenue by Country or Region report.

This report uses the following features:
- crosstabs
- prompts
- filters
- line charts
- prompt pages
- query calculations
- calculations
- singletons
- bar charts
- custom headers and footers

Tree Prompt Retailers Set
This report shows the revenue for the retailers set. This report is optimized for mobile devices. It is a drill-through target for the Sales Revenue Expectation report.

This report uses the following features:
- crosstabs
- tree prompts
- combination charts
- prompt pages
- query calculations
- custom headers and footers

Samples in the GO Data Warehouse (analysis) Package
The following reports are some of the reports found in the GO Data Warehouse (analysis) package.

Sample reports that were created in Report Studio are located in the Active Report folder and the Report Studio Report Samples folder.

Budget vs. Actual
This report shows three years of data by retailer and retailer site for the camping equipment product line. Each year includes budget and actual data.

This report uses the following features:
- summarizing
- crosstabs
- context filters

Core products results
This active report shows revenue data for the core products Camping Equipment and Golf Equipment.

This list report uses two drop-down list controls to filter data by the following criteria:
- core product
Customer Returns and Satisfaction
This report shows the customer satisfaction survey results for Asia Pacific in 2013. It highlights the customers who are the least satisfied. It also provides information about customers with the highest number of product returns.

This report uses the following features:
- combination charts
- customizing the color and size of a chart
- lists
- formatting a list
- conditional highlighting
- filters
- custom headers and footers
- colors
- lineage
- text items
- grouping
- baselines
- summarizing
- calculations
- drilling through

Employee Satisfaction 2012
This report shows employee satisfaction survey results by department, compared to targets and industry standards. It also shows employee rankings and terminations.

This report uses the following features:
- crosstabs
- conditional highlighting
- combination charts
- lineage
- text items
- calculations

Employee Training by Year
This report shows employee training data for the selected year and quarter(s). A bar chart shows training costs by region and a crosstab shows data for the selected quarter(s).

This report uses the following features:
- context filters
- cascading prompts
- bar charts
- customizing the color of a chart
- crosstabs
- calculations
Eyewear Revenue by Brand and Size
This report shows a summary of eyewear revenue by brand and compares two prompted retailer sites. The report is filtered by prompts for region, retailer type, and year.

This report uses the following features:
- prompts
- bar charts
- lists
- conditional styles
- calculations
- text items
- custom headers and footers
- combination charts
- axis titles
- crosstabs
- grouping

Global Bonus Report
This list report shows employees who received more than $2,500 bonus in a year by region. It is grouped by country or region. It also shows how much the sales target was exceeded for each region.

This report uses the following features:
- lists
- page sets (page breaks by country or region with different sorting and grouping)
- multiple prompts and parameters
- calculations
- filters
- conditional highlighting
- hidden objects
- lineage

GO Balance Sheet as at Dec 31 2012
This is the Balance sheet report for Americas where current year data is compared to the previous year data. Analysts can see negative trends under Variance where negative percentages are highlighted.

This report uses the following features:
- conditional highlighting
- padding
- crosstabs
- text items
- context filters

Sample Outdoors Company Balance Sheet as at Dec 31 2012
This report shows a simple balance sheet with assets, liabilities, and equity for 2012 with a 2011 comparative. It uses IBM Cognos Workspace Advanced. The IBM Cognos Business Intelligence Getting Started guide provides a step-by-step example of how to create this report.
This report uses the following feature:
• crosstabs

**Manager Profile**
This report shows information about managers, including salary, bonuses, and all compensations grouped by year.

This report uses the following features:
• column charts
• lists
• grouping
• summarizing
• custom chart palette
• prompts

**New order methods**
This active report shows revenue by order method, with focus on the new order methods.

This list report has the following features:
• check box control that allows you to filter data by new order method
• sorting by year or new order method

**Planned Headcount**
This chart report shows headcount variance compared to the plan for each organization for 2013.

This report uses the following features:
• progressive column charts
• templates
• hidden objects
• custom headers and footers
• lists
• baselines

**Positions to Fill**
This report shows a list of department names, positions, longest days to fill the positions, and ranking. The report uses a prompt for the year and is a drill-through target for the Recruitment report.

This report uses the following features:
• combination charts
• lists
• prompts
• baselines

**Promotion Plan Revenue**
This report shows the planned revenue for all the promotions of a selected campaign. It is a drill-through target for the Top 10 Promotions by Retailer report that is based on the Sales and Marketing (cube) package.

This report uses the following features:
Promotion Success
This report shows the financial results of the company’s promotions. It shows how much of the company’s total revenue is attributable to each promotional campaign.

This report uses the following features:
- prompt pages
- HTML items
- summarizing
- axis titles
- bar charts
- lists
- grouping

Quantity Sold vs. Shipped and Inventory
This report compares the quantity of goods sold and shipped with the opening and closing inventory levels.

This report uses the following features:
- filters
- combination charts
- defined y-axes
- custom headers and footers

Recruitment Report
This report shows a variety of recruitment techniques for certain positions or organizations.

This report uses the following features:
- drilling through
- crosstabs
- prompt pages
- colors
- floating object adjustment
- custom headers and footers

Return Quantity by Order Method
This report shows quantity sold, number of returns, and percentage of returns (with those greater than 5% highlighted) by return reason for each product in the Outdoor Protection product line.

This report uses the following features:
- filters
- lists
- conditional highlighting
- grouping
Returned Items
This report shows the number of returned items by return reason and retailer type. A column chart shows returned items by product line and region for the selected date range.

This report uses the following features:
- date and time prompts
- crosstabs
- bar charts
- drilling down
- text items
- sorting

Returns by Damage, Failed Orders and Complaints in 2012
This report shows quality measures based on product returns.

This report uses the following features:
- pie charts
- crosstabs
- indented text
- singletons
- calculations
- drilling through
- text items
- custom headers and footers

Returns by Failed Orders in 2012
This report shows quality measures based on product returns and focuses on failed orders.

This report uses the following features:
- pie charts
- crosstabs
- indented text
- singletons
- drilling through
- text items
- calculations, including the tuple function

Returns by Order Method
This report shows product returns and reasons filtered on the order method. The Getting Started guide provides a step-by-step example of how to create this report.

This report uses the following features:
- bar charts
- prompts
- crosstabs
- filters
- custom headers and footers
Returns by Order Method - Prompted Chart
This prompted chart report shows product returns and reasons filtered on a prompted order method.

This report uses the following features:
- bar charts
- prompts
- crosstabs
- filters
- custom headers and footers

Revenue by GO Subsidiary 2011
This prompted chart report shows 2011 quarterly revenues for each GO subsidiary.

This report uses the following features:
- templates
- colors
- prompts
- hyperlinks
- customizing charts
- singletons
- bar charts
- drilling through
- layout calculations
- pie charts
- calculations
- combination charts
- text items
- blocks
- sorting

Sales Commissions for Central Europe
This report shows an annual summary of sales commissions, revenues, and gross profit for each branch in Central Europe. It also compares actual commission expenses with planned commission expenses.

This report uses the following features:
- prompts
- calculations
- bar charts
- lists
- conditional highlighting
- drilling through
- custom headers and footers
- axis titles
Sales Growth Year Over Year
This report shows annual sales growth in both percentage and dollar amounts.

This report uses the following features:
- bar charts
- lists
- filters
- sorting
- baselines
- axis titles

Sales target by region
This active report shows sales target by region, including the percentage differences between planned and actual revenue.

Succession Report
This report shows the succession data by department and status for percent ready in a column chart. It also contains a detailed crosstab for the managers associated with the possible successors.

This report uses the following features:
- drilling through to the Manager Profile report
- filters
- lists
- grouping

Top 10 Retailers for 2011
This report shows the top 10 retailers for 2011 by revenue and sales target.

This report uses the following features:
- bar charts
- lists
- filters
- multiple queries
- combination charts
- line charts
- notes
- axis titles
- text items
- custom headers and footers

Samples in the GO Data Warehouse (query) Package
The following reports are some of the reports found in the GO Data Warehouse (query) package.

Sample reports that were created in Report Studio are located in the Active Report folder and the Report Studio Report Samples folder.

Advertising-cost vs revenue
This active report shows the advertising cost vs revenue by year. Tab controls are used for grouping similar report items.
Bursted Sales Performance Report
This list report shows how to burst a product sales report to a sales manager for Northern Europe sales staff. To successfully burst this report, IBM Cognos Business Intelligence must be configured to use an email server.

This report uses the following features:
- lists
- bursting
- conditional highlighting
- filters
- calculations
- summarizing
- blocks
- custom headers and footers
- sorting
- grouping

Employee Expenses (report)
This report is used as a data source for the Employee Expenses Power Cube.

This report uses the following feature:
- lists

Health Insurance
This report is used as a data source for the Employee Expenses Power Cube.

This report uses the following features:
- lists
- filters

Pension Plan
This report is used as a data source for the Employee Expenses Power Cube.

This report uses the following features:
- lists
- filters

Regular Salary
This report is used as a data source for the Employee Expenses Power Cube.

This report uses the following features:
- lists
- filters

TOC Report
This report takes advantage of the bookmark object to allow a user to navigate through this report easily. This report should be run in PDF or saved HTML format. The report contents show a product order table and an expected volume fact table.

This report uses the following features:
- lists
Total Revenue by Country or Region
This report summarizes revenue for Retailer Country or Region and Product Line. It is also a drill-through target for the Top Retailers by Country or Region and Revenue by Order Method reports.

This report uses the following features:
- crosstabs
- combination charts
- summarizing
- tables to control where objects appear

Samples in the GO Sales (analysis) Package
The following reports are some of the reports found in the GO Sales (analysis) package.

2011 Quarterly Sales Forecast
This report shows the sales forecast by product line and region for each quarter in 2011.

This report uses the following features:
- lists
- summarizing
- grouping
- sorting

2011 Sales Summary
This report summarizes revenue and gross profit for 2011 and shows the top sales representatives by revenue and quantity sold.

This report uses the following features:
- lists
- filters
- combination charts
- axis titles
- custom headers and footers
- conditions

Samples in the GO Sales (query) Package
The following reports are some of the reports found in the GO Sales (query) package.

Sample reports that were created in Report Studio are located in the Active Report folder and the Report Studio Report Samples folder.
Active Report Techniques
This report demonstrates common active report and dashboard features and functionality.

Briefing Book
This report shows a Briefing Book style of report.

This report uses the following features:
- multiple pages
- crosstabs
- multiple queries
- filters
- pie charts
- singletons
- tables of contents
- bookmarks
- PDF options
- horizontal pagination
- sorting
- custom headers and footers
- text items

Film strip
This active report shows detailed sales facts in different charts. Deck controls are used for navigation.

Horizontal Pagination
This report shows crosstabs rendered across several horizontal pages. The first crosstab shows the fit-to-page behavior while the second crosstab shows the horizontal pagination.

This report uses the following features:
- multiple pages
- horizontal pagination
- crosstabs
- custom headers and footers

Matrix-chart and graph
This active report shows a summary of sales facts for each province or state in the Americas. Clicking a category in the map displays the data in a list.

Order Invoices - Donald Chow, Sales Person
This report generates invoices for all the sales by Donald Chow.

This report uses the following features:
- lists
- adding list row cells
- calculations
- formatting tables
- calculations
• filters
• grouping
• tables to control where objects appear

**No Data**
Each page of this report presents a different option for dealing with a No Data condition. It also generates invoices of sales for the Order Invoices - Donald Chow, Sales Person report in the GO Sales (query) package.

This report uses the following features:
• crosstabs
• custom headers and footers
• no data
• lists

**PDF Page Properties**
The two pages of this report appear with different Page Orientation (portrait and landscape) when the report is run in PDF format.

This report uses the following features:
• crosstabs
• lists
• page orientation
• PDF options
• custom headers and footers

**Product details**
This active report shows attributes as color, size, and description for products.

**Sales analysis**
This active report shows interactions with charts. Clicking a pie series in a chart filters the product line selected.

**Sales Dashboard**
This active report focuses on sales details by region and product brand. Describes the top performers and the best performance by region.

**Singletons on Page Body**
This report uses singleton results to display information with no data relationship in the same layout context.

This report uses the following features:
• singletons
• tables
• custom headers and footers

**Table of Contents**
This report shows two Tables of Contents: one for the main pages and another for the appendices.

This report uses the following features:
• crosstabs
• pie charts
Samples in the IBM Cognos Statistics Package

The following reports are some of the sample reports found in IBM Cognos Statistics.

IBM Cognos Statistics contains the following data sources:
- GOSALEDW
- BANKLOAN_CS
- CATALOG_SALES
- CLOTHING_DEFECTS
- DISCHARGEDATA
- DVDPLAYER
- SHAMPOO_PH

Advertising Costs on Sales Revenue - Linear Regression

This report uses a linear regression statistical object to show the impact of advertising costs on sales revenue.

This report uses the following features:
- Linear regression
- crosstabs

Catalog Sales - Correlation

This report uses a correlation statistical object to summarize the relationship between two critical business variables in a retail organization from 2010-2013.

This report uses the following features:
- correlation
- lists

Clothing Manufacturer Quality - Control Chart

This report uses a control chart statistical object to monitor the clothing manufacturing process to ensure that the proportion of detective clothing is consistent over time and across batches.

This report uses the following features:
- a p, np control chart

Discharged Patients - One-way Chi-square

This report uses a one-way chi-square statistical object to analyze whether the number of patients that are discharged varies by day of week.

This report uses the following features:
- a one-way chi-square test
- combination charts
DVD Score - One-way ANOVA
This report uses a one-way ANOVA statistical object to discover if consumers of various ages rate the design of a DVD player differently.

This report uses the following features:
- one-way ANOVA
- pie charts

Income Growth - Boxplot
This report uses a boxplot object to understand the key influencers of income.

This report uses the following features:
- a boxplot
- curve estimation
- column charts
- lists

Shampoo pH Level - Control Chart
This report uses a control chart statistical object to monitor the processing of pH level in shampoo production.

This report uses the following features:
- an X-bar chart and an R chart

Interactive Samples
The following reports are some of the reports found in the Interactive Samples folder.

Bursted Sales Performance Report
This list report shows how to burst a product sales report to a sales manager for Northern Europe sales staff. To successfully burst this report, IBM Cognos Business Intelligence must be configured to use an email server.

This report uses the following features:
- lists
- bursting
- conditional highlighting
- filters
- calculations
- summarizing
- blocks
- custom headers and footers
- sorting
- grouping

Percentage Calculation (by year)
This prompted report shows a percentage calculation based on a particular year.

This report uses the following features:
- lists
- pie charts
Recruitment Report
This report shows a variety of recruitment techniques for certain positions or organizations.

This report uses the following features:
• drilling through
• crosstabs
• prompt pages
• colors
• floating object adjustment
• custom headers and footers

Revenue by GO Subsidiary 2011
This prompted chart report shows 2011 quarterly revenues for each GO subsidiary.

This report uses the following features:
• templates
• colors
• prompts
• hyperlinks
• customizing charts
• singletons
• bar charts
• drilling through
• layout calculations
• pie charts
• calculations
• combination charts
• text items
• blocks
• sorting

Rolling and Moving Averages
This report shows the rolling and moving average count for the return quantity. A prompt uses a macro to provide static choices within a time dimension.

This report uses the following features:
• prompts
• calculations
• crosstabs
• combination charts

Top 10 Retailers for 2011
This report shows the top 10 retailers for 2011 by revenue and sales target.

This report uses the following features:
• bar charts
• lists
• filters
- multiple queries
- combination charts
- line charts
- notes
- axis titles
- text items
- custom headers and footers

**Prompt API samples**

The following reports are some of the reports found in the Samples_Prompt_API folder.

**Clear prompt selections**
This report demonstrates using the prompt API to clear selections from all prompts.

**Date prompt presets**
This report uses the prompt API to provide the user with a set of prompt selection presets based on today’s date.

**Display all prompt values ignoring user selections**
This report uses the prompt API to display all the values in the prompt, whether they are selected or not.

**Display user selected prompt values**
This report uses the prompt API to display the prompt values selected by the user.

**Filter country by letter**
This report uses a custom prompt control to provide parameters to filter the report.

**Limit date prompt selection by database value**
This report demonstrates limiting the selection of a date to a value less than or equal to a latest date value in a query item.

**Limit numeric prompt selection by database value**
This report demonstrates limiting the selection of a value less than or equal to a largest value in a query item.

**Limit time between two dates**
This report demonstrates preventing the user from selecting a date range greater than 10 days.

**Limit user selection to two items**
This report shows how to validate prompt values to stop the user from selecting more than two items.

**Pass parameter via hidden prompt**
This report demonstrates setting the value of a hidden prompt.

**Personal default prompt selections - set selections**
This report allows the user to save a set of default prompt selections for use in subsequent reports. The prompt selections are saved to browser cookies for reuse in other reports.
Personal default prompt selections - use selections
This report shows how to use the personal default prompt selections.

Validate prompt values when button pushed
This sample shows how to validate prompt values when a prompt button is clicked.

Validate type-in postal code values
The report uses the prompt API to validate user input as the user types.

Validate type-in product line code
The report uses the prompt API to validate user input as the user types.

IBM Cognos Workspace Advanced samples
IBM Cognos Workspace Advanced includes sample reports that are based on the fictional retail company, the Sample Outdoors.

Samples in the GO Data Warehouse (analysis) Package
The following reports are some of the reports found in the GO Data Warehouse (analysis) package.

Sample reports that were created in Report Studio are located in the Active Report folder and the Report Studio Report Samples folder.

Promotion Success
This report shows the financial results of the company’s promotional campaigns, including how much of the company’s total revenue is attributable to each promotional campaign. This report can be used as an existing report for the external data sample files.

This report uses the following features:
- lists
- grouping
- summarizing
- text items
- tables
- custom headers and footers

Retailer sales target
This report shows sales targets by year and retailer site. This report can be used as an existing report for the external data sample files.

This report uses the following features:
- lists
- foreground colors
- font sizes
- custom headers

Samples in the GO Data Warehouse (query) Package
The following reports are some of the reports found in the GO Data Warehouse (query) package.
Sample reports that were created in Report Studio are located in the Active Report folder and the Report Studio Report Samples folder.

**Employee Expenses by Region**
This report shows the employee expenses result by regions. This report can be used as an existing report for the external data sample files.

This report uses the following features:
- lists
- grouping
- custom footers

**Returns by Product Brand**
This report provides information about the returned items situation by returns reason and product brand. This report can be used as an existing report for the external data sample files.

This report uses the following features:
- lists
- groupings

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**Setting Up the IBM Cognos PowerPlay Samples**
After you install the samples from the IBM Cognos Business Intelligence Samples CD, set up the samples.

**Create a Data Source Connection to the Sample PowerCube**
Before you can open the sample reports in IBM Cognos PowerPlay® Studio, you must create a data source connection to the sample PowerCube.

**Procedure**
1. Connect to the IBM Cognos BI portal.
2. Start IBM Cognos Administration:
   - In the Welcome page, click Administer IBM Cognos Content.
   - In IBM Cognos Connection, from the toolbar, click Launch IBM Cognos Administration.
3. In IBM Cognos Administration, click the Configuration tab.
4. Click the New Data Source button.
5. In the Name box, type great_outdoors_sales_en and then click Next.
   The name must be all lowercase and include the underscore characters.
6. In the Type box, select IBM Cognos PowerCube and then click Next.
7. In the location box, type the path and file name for the great_outdoors_sales_en.mdc PowerCube.
   For example, if you are creating a connection to samples installed to the default installation location on the local computer, type C:\Program Files\ibm\cognos\c10\webcontent\samples\datasources\cubes\PowerCubes\EN\great_outdoors_sales_en.mdc
8. To confirm that you entered all parameters correctly, click Test the Connection.
After you test the connection, click Close on both the View the Results and Test the Connection pages to return to the connection string page.

9. Click Finish.

10. On the Finish page click OK. Do not select Create a Package.

Results

The great_outdoors_sales_en entry appears on the Data Source Connections list.

Import the Sample Reports

You can make the sample reports available for use in Cognos Viewer or IBM Cognos PowerPlay Studio by importing them using a deployment archive.

The sample PowerPlay data is packaged in a deployment archive for PowerPlay and migration and a deployment archive for drill-through examples. You import the deployment archives in IBM Cognos Administration before users can access the reports.

Before you begin

Before you import the content, ensure that you set up the sample PowerCube.

Importing the PowerPlay and migration samples

Use the following procedure to import the IBM Cognos PowerPlay and migration samples.

Procedure

1. On the computer where the samples are installed, go to the c10_location\webcontent\samples\content directory.
   For example, if the samples were installed to the default installation location, the path is C:\Program Files\ibm\cognos\c10\webcontent\samples\content

2. Copy IBM_Cognos_PowerPlay.zip to the c10_location\deployment directory on the computer where the Content Manager component is installed.

3. Connect to the IBM Cognos BI portal.

4. Start IBM Cognos Administration:
   • In the Welcome page, click Administer IBM Cognos Content.
   • In IBM Cognos Connection, from the toolbar, click Launch, IBM Cognos Administration.

5. Click the Configuration tab.

6. Click Content Administration.

7. Click the New Import button.

8. Select IBM_Cognos_PowerPlay and click Next.

9. Keep the default name and location and then click Next.

10. Select the Samples folders and click Next.

11. Keep the default options and click Next.

12. Review the summary and click Next.

13. Select Save and run once and click Finish.


15. Click OK.
Results

IBM_Cognos_PowerPlay appears in Administration and a Samples folder appears in Public Folders in IBM Cognos Connection.

Importing the drill-through samples

Use the following procedure to import the drill-through samples.

Procedure

1. On the computer where the samples are installed, go to the c10_location\webcontent\samples\content directory.
   For example, if the samples were installed to the default installation location, the path is C:\Program Files\ibm\cognos\c10\webcontent\samples\content

2. Copy IBM_Cognos_DrillThroughSamples.zip to the c10_location\deployment directory on the computer where the Content Manager component is installed.

3. Connect to the IBM Cognos BI portal.

4. Start IBM Cognos Administration:
   • In the Welcome page, click Administer IBM Cognos Content.
   • In IBM Cognos Connection, from the toolbar, click Launch, IBM Cognos Administration.

5. Click Configuration.

6. Click Content Administration.

7. Click the new import button.

8. Select IBM_Cognos_DrillThroughSamples and click Next.

9. Keep the default name and location and then click Next.

10. Select the Samples folder and click Next.

11. Keep the default options and click Next.

12. Review the summary and click Next.

13. Select Save and run once and click Finish.


15. Click OK.

Test a Sample Report

You can test the import by opening a sample report in Cognos Viewer or IBM Cognos PowerPlay Studio. Cognos Viewer is the default viewer when you open a report in IBM Cognos Connection.

Procedure

1. To test a report in Cognos Viewer, do the following:
   a. Connect to the IBM Cognos BI portal and start IBM Cognos Connection.
   b. In the Welcome page, click IBM Cognos content.
   c. In the Public Folders list, open Samples, PowerPlay.
   d. Click great_outdoors_sales_en.
   e. Click any report in the list. The report opens in IBM Cognos Viewer.

2. To test a report in PowerPlay Studio, do the following:
   a. Connect to the IBM Cognos BI portal and start IBM Cognos Connection.
   b. In the Welcome page, click IBM Cognos content.
c. In IBM Cognos Administration, from the toolbar, click Launch IBM Cognos Connection.

d. Go to Public Folders, Samples, PowerPlay.

e. Click More for the great_outdoors_sales_en entry.

f. Click View package contents.

g. Click the Open with PowerPlay Studio button for any report in the list.
The report opens in PowerPlay Studio.

Set Up the Sample PowerCubes and Reports for Migration

Before you can do a sample migration from IBM Cognos Series 7 to IBM Cognos PowerPlay, you must copy the IBM Cognos Series 7 PowerCube and sample reports from the IBM Cognos BI Samples installation to the IBM Cognos Series 7 PowerPlay Enterprise Server computer.

After you set up the sample PowerCube and reports, you can migrate the reports. After the migration, users can then view the reports in Cognos Viewer or PowerPlay Studio. By default, the migrated reports are in PDF format.

Procedure

1. From the computer where the IBM Cognos BI Samples are installed, copy the following content to the IBM Cognos Series 7 computer.
   - all reports from the c10_location\webcontent\samples\powerplay_reports\powerplay_7\reports_for_remote_cubes\language
   - great_outdoors_7.mdc from the c10_location\webcontent\samples\datasources\cubes\PowerCubes\language directory

2. In IBM Cognos Series 7 PowerPlay Administration, add the cube and reports to PowerPlay Enterprise Server.

3. To update the cube mapping, in IBM Cognos Series 7 PowerPlay Client, open each report using a remote connection to great_outdoors_7.mdc, and then save the report.

Results

The cube and reports are now ready for use in IBM Cognos Series 7.

Sample Audit Model and Audit Reports

IBM Cognos PowerPlay includes a sample model and sample audit reports that you can use with IBM Cognos Business Intelligence logging.

Sample Audit Model

IBM Cognos BI includes a sample audit model in Framework Manager. The default location is c10_location\webcontent\samples\Models\Audit\Audit.cpf.

Sample Audit Reports

The following table lists the sample PowerPlay audit reports and describes the content of each report.
Table 16. Sample audit reports

<table>
<thead>
<tr>
<th>Audit report name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowerPlay Access</td>
<td>Shows who accessed PowerPlay, what time they logged onto the portal, and which package they accessed.</td>
</tr>
<tr>
<td>PowerPlay Usage</td>
<td>Shows which users accessed which packages and the dimensions, levels and measures that they accessed within the package.</td>
</tr>
</tbody>
</table>

PowerPlay Samples

The following IBM Cognos PowerPlay samples are available on the IBM Cognos Business Intelligence Samples CD.

Table 17. PowerPlay samples

<table>
<thead>
<tr>
<th>File name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>great_outdoors_sales_en.mdc</td>
<td>All sample reports are based on the great_outdoors_sales_en.mdc cube. This cube was built with IBM Cognos Transformer.</td>
</tr>
<tr>
<td>3D-multiline.ppx</td>
<td>Explorer report showing multiple displays in a single report: 3D bar, multiline, and crosstab.</td>
</tr>
<tr>
<td>advanced_subset.ppx</td>
<td>Reporter report with an advanced subset definition and find-in-cube subset definition. The advanced subset definition is used as rows for the report.</td>
</tr>
<tr>
<td>charting options.ppx</td>
<td>Reporter report showing a simple bar display with statistical lines.</td>
</tr>
<tr>
<td>currency_explorer.ppx</td>
<td>Explorer report showing a crosstab display with nested rows and an alternate currency.</td>
</tr>
<tr>
<td>currency_reporter.ppx</td>
<td>Reporter report showing a crosstab display with nested rows and an alternate currency.</td>
</tr>
<tr>
<td>external_rollup.ppx</td>
<td>Reporter report showing a crosstab display with nested rows and an external rollup.</td>
</tr>
<tr>
<td>forecasting.ppx</td>
<td>Explorer report showing a crosstab display with indented 2 layout and a forecast calculation.</td>
</tr>
<tr>
<td>nested_crosstab_1.ppx</td>
<td>Reporter report showing a crosstab with indented 1 layout. The report includes zero values as blanks, blank rows and columns, and the use of variables in the report title.</td>
</tr>
<tr>
<td>nested_crosstab_2.ppx</td>
<td>Reporter report showing a crosstab display with standard layout. The report includes categories from an alternate drill-down path nested with categories from primary drill-down path, and multiple measure intersections.</td>
</tr>
<tr>
<td>nested_crosstab_3.ppx</td>
<td>Explorer report showing a crosstab display with indented 2 layout and ranking.</td>
</tr>
<tr>
<td>nested_crosstab_4.ppx</td>
<td>Explorer report showing a crosstab display with indented 2 layout. The report shows hidden gridlines and formatting of the labels for the summary rows.</td>
</tr>
<tr>
<td>parentage_subset.ppx</td>
<td>Reporter reporter showing crosstab display with a parentage subset definition added as rows. A pattern is used to highlight the subset.</td>
</tr>
</tbody>
</table>
Table 17. PowerPlay samples (continued)

<table>
<thead>
<tr>
<th>File name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>percentage_sales.ppx</td>
<td>Explorer report showing a crosstab display with 80/20 suppression and custom formatting of the label for the other category.</td>
</tr>
<tr>
<td>ranking_1.ppx</td>
<td>Reporter report showing a crosstab display with two ranked columns, one sorted, and the other unsorted.</td>
</tr>
<tr>
<td>ranking_2.ppx</td>
<td>Reporter report showing a crosstab display with ranking calculation.</td>
</tr>
<tr>
<td>ranking_3.ppx</td>
<td>Reporter report showing a crosstab display with nested rows. The report includes a formatted rank category.</td>
</tr>
<tr>
<td>sales_target_correlation.ppx</td>
<td>Explorer report showing a correlation and crosstab display.</td>
</tr>
<tr>
<td>stacked_bar.ppx</td>
<td>Explorer report showing stacked bar and crosstab displays and sorting by value.</td>
</tr>
<tr>
<td>top_sales_staff.ppx</td>
<td>Reporter report showing a filter, calculation, rank, and the use of a graphic in the report title.</td>
</tr>
</tbody>
</table>

Cognos Mobile samples

The IBM Cognos Business Intelligence server installation includes a set of sample active reports for the iPad and a set of sample static reports optimized for mobile devices.

The iPad and static sample reports illustrate product features and technical and business best practices. Users can use them for experimenting with and sharing report design techniques and for troubleshooting.

iPad users can try out the interactive functionality of active reports. These reports let users compare different areas of their business to determine trends, for example, over time, by region, by departments or in combination, or compare business methods and statistics.

The iPad sample active reports include:

- Employee Recruitment
  This active report compares the effectiveness of various employee recruitment methods for each department and country or region. It shows the organization names, positions filled, planned positions, and a bulleted chart of positions filled versus planned positions.

- Customer Satisfaction
  This active report compares the number of returns by customers by order method and region. The report provides additional information about the order method with the highest number of returns. It also shows customer survey results for different regions.

- Inventory turnover report
  This active report shows information about the regional product inventory turnover, based on two years of comparative data. The report provides key inventory metrics that a company might use to manage its inventory. You can drill down on each product category to view the detailed inventory information and the number of failed orders related to the inventory.
• Financial report
  This active report shows current performance and changes in the financial position of an enterprise. This type of information is useful to all users who are involved in making business decisions. However, the Finance department is most likely to benefit from this information when implementing the checks and controls in the system to comply with legal, tax, and accounting regulations and requirements, and when providing advice about future directions, performance, and opportunities for the business.

Cognos Mobile sample active reports demonstrate the following product features:
  • Interactive behavior between controls.
  • Access to Details on Demand by leveraging drill-down functionality.
  • Conditional palette and drill-down to details from a chart.
  • Specific design for iPad gestures, such as swiping and scrolling.
  • Particular user interface design, such as cover page and color palette.
  • Different type of active report items, such as Deck, Tab Control, Chart, Buttons, Drop-down list, Iterator and Slider.

The static sample reports let users try the following features:
  • Drilling through from one IBM Cognos Mobile report to another.
  • Using tree prompts to filter reports.
  • Viewing different report types, such as charts, crosstab, and list reports.
  • Using calculated values and showing the results as a percentage.

The Mobile sample static reports include:
  • Running Total For Promotion
    This report shows planned revenue by percentage for each product line. The report uses charts, crosstab reports, and list reports.
  • Sales Revenue Expectation
    This report shows the goal for the percentage change in sales revenue for retailers. It uses a calculated value for forecasted revenue.
  • Tree Prompt Retailers Set
    This report shows the revenue for a set of retailers. The report is a drill-through target for the Sales Revenue Expectation report.

For more information about the IBM Cognos BI samples, including how to set up and install the Mobile samples, see the IBM Cognos Business Intelligence Installation and Configuration Guide.

Cognos Workspace samples

Below are the samples included with IBM Cognos Workspace

Samples in the GO Data Warehouse (analysis) package

The following IBM Cognos Workspace report is found in the GO Data Warehouse (analysis) package.

Employee Satisfaction Workspace
This report shows different measures for employee satisfaction, such as investment in training, employee survey results (by department and by topic, including a
comparison with the planned survey results), and a list of bonuses for employees, sorted by country or region. The slider filter applies to the bonus list.

**Samples in the GO Data Warehouse (query) package**

The following workspaces are found in the GO Data Warehouse (query) package.

**Marketing workspace**

This workspace shows the results of different promotional campaigns.

The select value filter for campaign name applies to the first two charts. The product line select value filter applies to the advertising cost chart, and the year slider filter applies to the advertising cost crosstab.

**Recruitment workspace**

This workspace shows the recruitment results (average number of days to fill positions) for different indicators: by organization, department, branch, and year, and detailed information about the success of different recruiting techniques.

Two select value filters control three of the widgets.

**Revenue data workspace**

This workspace shows the revenue by country product type, and order method.

The country or region and product type are controlled by a select value filter.

**Sales By Year workspace**

This workspace shows different sales indicators for a year range controlled by the slider filter: profit margin, gross profit, product cost, quantity sold, revenue by region, and a comparison between actual and planned revenue.

The slider filter controls all widgets.

**Tabbed workspace**

This workspace shows a global area and three different tabs: revenue and sales data, human resources data, and financial data.

The global area has action buttons that help you go from tab to tab. There is also a slider filter on the global area that controls widgets on two of the three tabs.

**Interactive samples**

The following workspace is found in the Interactive Samples folder.

**Sales workspace**

This workspace shows different aspects of sales: gross profit by month, region, and product line, revenue by region, and the number of sales representatives that contributed to the sales.

The source objects are based on the GO Data Warehouse (analysis) package and the GO Data Warehouse (query) package. The Sales workspace is interactive: if you move the mouse over any of the widgets, a pop-up window displays ideas about how to improve the workspace.
Using the Java samples

The IBM Cognos Software Development Kit includes Java program samples that show you some of the types of applications you can design. These samples include source files so that you can test changes to the sample code, and batch files or shell scripts for compiling and running the samples.

Comments in the source files describe the main purpose of each sample, including a summary of which BI Bus API Software Development Kit methods are used. The batch files and shell scripts contain instructions that you must follow before you run them.

Each subdirectory in `installation_location/sdk/java` contains the following files.  

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>build.bat</td>
<td>Builds the individual sample on Windows operating systems</td>
</tr>
<tr>
<td>build.sh</td>
<td>Builds the individual sample on UNIX or Linux operating systems</td>
</tr>
<tr>
<td>run.bat</td>
<td>Runs the individual sample on Windows operating systems</td>
</tr>
<tr>
<td>run.sh</td>
<td>Runs the individual sample on UNIX or Linux operating systems</td>
</tr>
</tbody>
</table>

In addition, the `installation_location/sdk/java` directory contains the following files.  

<table>
<thead>
<tr>
<th>File</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>build-samples.bat</td>
<td>Builds all the Java samples on Windows operating systems</td>
</tr>
<tr>
<td>build-samples.sh</td>
<td>Builds all the Java samples on UNIX or Linux operating systems</td>
</tr>
</tbody>
</table>

Before you modify any of the Java samples, familiarize yourself with basic Java programming techniques.

Before you use these Java samples, check to see if you have anonymous access enabled. Although the samples will work with anonymous access, security features will not be demonstrated. To use the security features of the samples, ensure that you have a secured NTLM, LDAP, or other namespace, and that you disable anonymous access.

Because some of the Java samples issue output to the command console, ensure that the console is visible when you run the samples.
Java samples setup for Windows operating systems

Use this procedure to setup the Java samples on Windows operating systems.

Procedure
1. Install the Java Development Kit (JDK). The minimum supported version is JDK 1.5. Set the compiler compliance level to 1.5 if you are using a later version of the JDK.
2. Ensure that your PATH environment variable includes the location where the JDK is installed.
3. Edit `installation_location/sdk/java/Common/CRNConnect.java` by locating the line
   ```java
   public static String CM_URL = "http://localhost:9300/p2pd/servlet/dispatch";
   ```
   and replacing `localhost:9300` with the name and, if necessary, port number of your IBM Cognos dispatcher.
4. If you want to compile all the samples, edit `installation_location/sdk/java/build-samples.bat` and change the lines
   ```batch
   set JAVA_HOME=c:/jdk1.5
   set CRN_HOME=../../
   ```
   so that they point to the locations where the JDK and the IBM Cognos Business Intelligence server are installed, respectively.
5. If you want to compile individual samples, edit `installation_location/sdk/java/sample_name/build.bat` and change the lines
   ```batch
   set JAVA_HOME=c:/jdk1.5
   set CRN_HOME=../../
   ```
   so that they point to the locations where the JDK and the IBM Cognos BI server are installed, respectively.
6. Compile the Java samples by running `build-samples.bat` (to compile all samples) or `build.bat` (to compile an individual sample).

Java setup for Linux and UNIX operating systems

Use this procedure to setup the Java samples on Linux and UNIX operating systems.

Procedure
1. Install the Java Development Kit (JDK). The minimum supported version is JDK 1.5. Set the compiler compliance level to 1.5 if you are using a later version of the JDK.
2. Set the `JAVA_HOME` environment variable to point to the location where the JDK is installed.
3. Edit `installation_location/sdk/java/Common/CRNConnect.java` by locating the line
   ```java
   public static String CM_URL = "http://localhost:9300/p2pd/servlet/dispatch";
   ```
   and replacing `localhost:9300` with the name and, if necessary, port number of your IBM Cognos dispatcher.
4. If you want to compile all the samples, edit `installation_location/sdk/java/build-samples.sh` and change the lines
   ```bash
   CRN_HOME=/usr/cognos/c10
   JAVA_HOME=/c/j2sdk1.5
   ```
so that they point to the locations where JDK and the IBM Cognos BI server and the JDK are installed, respectively.

5. If you want to compile individual samples, edit `installation_location/sdk/java/sample_name/build.sh` and change the lines
   
   ```bash
   CRN_HOME=/usr/cognos/c10
   JAVA_HOME=/c/j2sdk1.5
   ```
   
   so that they point to the locations where JDK and the IBM Cognos BI server and the JDK are installed, respectively.

6. Compile the Java samples by running `build-samples.sh` (to compile all samples) or `build.sh` (to compile an individual sample).

---

**IBM Cognos Analysis Studio samples**

IBM Cognos Analysis Studio includes sample analyses that are based on the fictional retail company, the Sample Outdoors.

You can find these and other analyses in the Analysis Studio Samples folder on the Public Folders tab of IBM Cognos Connection.

**Combine Filters Sample**

This analysis uses several combined filters to answer a business question. This report uses the following features:

- combining filters
- using custom filters

**Custom Rank Sample**

This analysis shows a crosstab that uses custom ranking to override the default rank behavior. This report uses the feature:

- custom ranking

**QTD Growth by Product Brand**

This analysis uses a cube calculation to show the QTD growth compared to the overall revenue for the product brand. This analysis uses the following features:

- finding top or bottom values
- charting

**Top 10 Promotions by Retailers**

This analysis uses two filters to show the top retailers that have regular sales greater than 100,000,000, as well as the percentage of the overall total that is generated by promotions. The user selects the year to be shown. This analysis uses the following features:

- % calculations of total
- finding top or bottom values
- showing an analysis as a crosstab and a chart
- using a context filter as a Go To parameter

**Difference between Actual and Planned Revenue**

This analysis uses a crosstab to show the difference between Actual and Planned Revenue for the top three camping equipment products. This analysis uses the following features:
• finding top or bottom values
• showing an analysis as a crosstab and a chart
• difference calculations

Revenue vs per cent Gross Profit by Product Brand
This analysis uses the Sales and Marketing (cube) package to show the revenue and percentage of gross profit by product brand. This analysis uses the following features:
• charting
• per cent calculation

IBM Cognos Query Studio samples
IBM Cognos Query Studio includes sample reports that are based on the fictional retail company, the Sample Outdoors.

Samples in the Go Data Warehouse (analysis) Package
The following reports are some of the reports found in the GO Data Warehouse (analysis) package.

Return Quantity by Product Line
This crosstab report shows return quantities of product lines for all subsidiaries.

Return Quantity by Product Line Chart
This pie chart report shows return quantities of product lines for all subsidiaries.

Returns by Product Type
This report shows product type return quantities and lost revenue as a result of returns for all subsidiaries.

Sample in the Go Sales (query) Package
The following report is found in the GO Sales (query) package.

Gross Profit for Bella Eyewear Brand
This report shows the gross profit for the Bella eyewear brand. It uses a text filter to retrieve the brand, and a concatenation to get the unique combination of product name and color.

Cognos Mashup Service samples
The IBM Cognos Mashup Service includes code samples that illustrate how to use the SOAP and REST interfaces to develop mashup applications. There are 3 sets of code samples:
• Java samples that illustrate the SOAP interface using the Java programming language. For more information on Java samples, see Java samples.
• C# samples that illustrate the SOAP interface using the C# programming language. For more information on C# samples, see page 85.
• JavaScript samples that illustrate the REST interface. For more information, see JavaScript samples on page 87.

These samples use the Mashup Service to get report outputs from the IBM Cognos Business Intelligence samples. You can use them as learning tools or as examples to help you develop your own applications.
In order to run these samples, you must have installed the Great Outdoors Company sample databases and imported the sample packages from the sample deployment archive.

Java samples

The IBM Cognos Mashup Service includes Java program samples that show you some types of applications you can design. The samples include source files so that you can test making changes to the sample code, and batch files or shell scripts for compiling and running the samples.

The source files contain comments that describe the main purpose of each sample. The batch files and shell scripts contain instructions that you must follow before you run them. Each program sample also has an HTML page that explains the purpose of the sample, and provides instructions on how to run the sample.

Java sample file locations

The program samples are installed in folders under the `installation_location/sdk/cms_samples/java` folder. The contents of each folder are described here.

<table>
<thead>
<tr>
<th>Folder</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication</td>
<td>This sample program lets you pass the user credentials to the IBM Cognos server, retrieve the given report output in LayoutDataXML format, and display and save report output.</td>
</tr>
<tr>
<td>AuthenticationPrompt</td>
<td>This sample program runs a report for a given search path and saves the layoutDataXML output to a file.</td>
</tr>
<tr>
<td>common_class</td>
<td>This folder contains the class libraries generated by the Web services. These class libraries are used by all of the Java sample programs.</td>
</tr>
<tr>
<td>ExecReports</td>
<td>This sample program runs a report and outputs the first page of report output in HTML format. You can then use First Page, Previous Page, Next Page, and Last Page buttons to retrieve subsequent output pages.</td>
</tr>
<tr>
<td>ExpandTreePrompt</td>
<td>This sample program prompts for tree prompts for the Tree Prompt sample report and then runs the report.</td>
</tr>
<tr>
<td>PromptAnswers</td>
<td>This sample program runs the Returns by Order Method - Prompted Chart report using the Simple format and specifies values to satisfy the report prompts. It then outputs the value of the largest return quantity for Defective products for the Web order method that was specified by the prompt.</td>
</tr>
<tr>
<td>SearchPromptValue</td>
<td>This sample program illustrates the use of Search &amp; Select prompts using the Search Prompt Product report.</td>
</tr>
<tr>
<td>SingleReportPart</td>
<td>This sample program runs a report and returns a single report part.</td>
</tr>
</tbody>
</table>
Running the Java samples
Each sample subdirectory contains the following files:

- A build.bat file that builds the Java sample on Windows operating systems.
- A run.bat file to run the Java sample on Windows operating systems.
- A build.sh file that builds the Java sample on UNIX or Linux operating systems.
- A run.sh file to run the Java sample on UNIX or Linux operating systems.
- A <sample_name>_Explain.html file that describes the sample and lists any prerequisites for running it.
- One or more .java source files.
- .class files corresponding to each .java source file.

In addition, the Java directory contains the following files:
- A build-samples.bat file that allows you to build all the samples at once on Windows operating systems.
- A build-samples.sh file that allows you to build all the samples at once on UNIX or Linux operating systems.
- A JavaSamples.html file that lists all the samples and links to the individual description .html files.

You can run the Java sample programs from the command line or by using the Eclipse IDE, as shown here.

Running the Java samples on Windows operating systems
1. Ensure that a Java Development Kit, version 1.5 or higher, is installed.
2. Modify the .bat files files so the JAVA_HOME variable points to the JDK location.
3. Run build-samples.bat to build all the samples or an individual build.bat to build a single sample.
4. Read the <sample_name>_Explain.html to get the instructions for running an individual sample.
   Note that some samples require anonymous access to the IBM Cognos server, while other samples can be used to test authenticated access.
5. Run run.bat for the sample you want to try.

Running the Java samples on UNIX or Linux operating systems
1. Ensure that a Java Development Kit, version 1.5 or higher, is installed.
2. Modify the .sh files files so the JAVA_HOME variable points to the JDK location.
3. Run build-samples.sh to build all the samples or an individual build.sh to build a single sample.
4. Read the <sample_name>_Explain.html to get the instructions for running an individual sample.
   Note that some samples require anonymous access to the IBM Cognos server, while other samples can be used to test authenticated access.
5. Run run.sh for the sample you want to try.
Running the Java samples on the Eclipse IDE

1. Create a project in the Eclipse IDE with the installation_location/sdk/cms_samples/java folder as the source.
2. Add the .jar files referenced in the build.bat files to the build path.
3. Read the <sample_name>_Explain.html to get the instructions for running an individual sample.
   Note that some samples require anonymous access to the IBM Cognos server, while other samples can be used to test authenticated access.
4. Run the sample program from within the Eclipse IDE.

C# samples
The IBM Cognos Mashup Service includes C# program samples that show you some types of applications you can design. The samples include source files so that you can test making changes to the sample code, and batch files or shell scripts for compiling the samples.

The source files contain comments that describe the main purpose of each sample. The batch files and shell scripts contain instructions that you must follow before you run them. Each program sample also has an HTML page that explains the purpose of the sample, and provides instructions on how to run the sample.

C# sample file locations
The sample files are installed in folders under the installation_location/sdk/cms_samples/csharp folder. The contents of each folder are described here.

Folder  Contents
Authentication
   This sample program lets you pass the user credentials to the IBM Cognos server, retrieve the given report output in LayoutDataXML format, and display and save report output.

AuthenticationPrompt
   This sample program runs a report for a given search path and saves the layoutDataXML output to a file.

bin
   This folder contains executable versions of all of the C# sample programs.

CMSCommon
   This folder contains files common to all of the C# sample programs. It also contains the Web references generated from the Web services.

ExecuteReports
   This sample program runs a report and outputs the first page of report output in HTML format. You can then use First Page, Previous Page, Next Page, and Last Page buttons to retrieve subsequent output pages.

ExpandTreePrompt
   This sample program prompts for tree prompts for the Tree prmopt sample report and then runs the report.

PromptAnswers
   This sample program runs a report using the report-specific interface with defined prompt values

SearchPromptValue
   This sample program illustrates the use of Search & Select prompts using the Search Prompt Product report.
SingleReportPartFetch
This sample program runs a report and returns a single report part.

Running the C# samples
Each sample subdirectory contains the following files:
- A build.bat file that builds the C# sample.
- A `<sample_name>`.Explain.html file that describes the sample and lists any prerequisites for running it.
- A `<sample_name>`.cspproj Microsoft Visual Studio project file.
- One or more source files.

In addition, the csharp directory contains the following files:
- A CMS_Samples.sln Microsoft Visual Studio solution file.
- A CSharpSamples.html file that lists all the samples and links to the individual description.html files.

To run the C# samples, you can run the executable versions of the sample programs from the bin folder or, if you want to examine the sample programs in more detail, perform the following.

Procedure
1. Ensure that the Microsoft Visual Studio or Microsoft Visual C# IDE, version 2005 or later, is installed.
2. Open CMS_Samples.sln in the Microsoft Visual Studio or Microsoft Visual C# IDE.
3. Read the `<sample_name>`.Explain.html to get the instructions for running an individual sample.
   Note that some samples require anonymous access to the IBM Cognos server, while other samples can be used to test authenticated access.
4. Run the sample in the Microsoft Visual Studio or Microsoft Visual C# IDE.

JavaScript samples
The IBM Cognos Mashup Service includes JavaScript program samples that show you some types of applications you can design. The samples include source files so that you can test making changes to the sample code.

The source files contain comments that describe the main purpose of each sample. Each program sample also has an HTML page that explains the purpose of the sample, and provides instructions on how to run the sample.

JavaScript sample file locations
The sample files are installed in subdirectories under the installation_location/webcontent/samples/sdk/cms directory. The contents of each folder are described here.

Folder  Contents
atom   This sample program explores the Mashup Service atom feed for a report.
authentication   This sample program displays an HTML Fragment of a given report by passing the user credentials to the IBM Cognos Business Intelligence server.
This sample program traverses the Content Store and provides the URL to link to specific report parts.

This folder contains files common to all of the JavaScript sample programs.

This sample program runs a report and drills down.

This sample program runs a report with a drillable chart and drills down when a specific area of the chart is clicked.

This sample program performs a drill through using the Mashup Service.

This sample program performs a drill through from one report to another report.

This sample program displays an HTML Fragment of a report part and retrieves report outputs one page at a time.

This sample program displays an HTML Fragment of a saved report.

This sample program retrieve an HTML fragment for a report part, and shows how to open the standard IBM Cognos BI logon/logoff pages in a separate window.

This sample program displays an HTML Fragment of a given report and prompts the user using HTML prompting if required.

This sample program prompts for tree prompts and then runs the report with the selected prompts.

This sample program runs a report in JSON format.

This sample program retrieves a piece of the report using an XPath expression.

Running the JavaScript samples
Each sample subdirectory contains the following files:

- A `<sample_name>_Explain.html` file that describes the sample and lists any prerequisites for running it. The file also provides a link to run the sample.
- One or more HTML source files.

In addition, the cms directory contains a JavaScriptSamples.html file that lists all the samples and links to the individual description .html files. All the JavaScript samples can be run from the links in this file. It can be accessed using the following URL:

http://webservername:portnumber/ibmcognos/samples/sdk/cms/JavaScriptSamples.html
Chapter 4. Sample Outdoors organization and schemas

Under the holding company GO Consolidated, there are six distinct sales organizations, each with their own departments and sales branches.

GO Consolidated consists of sales organizations for GO Americas, GO Asia Pacific, and GO Accessories. The GO Accessories sales organization consists of GO Northern Europe, GO Central Europe, and GO Southern Europe.

The Outdoors Companies

Five of the six companies are regionally-based companies, whose sales region is identified in the company name. These five companies sell the complete line of outdoor products including:

- Camping Equipment
- Golf Equipment
- Mountaineering Equipment
- Personal Accessories
- Outdoor Protection

The Accessory Company

Go Accessories Inc. operates differently than the five outdoor companies and stands apart in several other areas:

- GO Accessories has its own collection of accessories, differentiated from the outdoor companies by brand, name, price, color and size.
- GO Accessories sells from a single branch to all regions and retailers.
- GO Accessories functions both as an operating company based in Geneva, and as owner or part owner of three GO subsidiaries in Europe. This offers a complex structure that is useful in samples that show office-of-finance type reporting.

Unbalanced hierarchy

The ownership by GO Accessories of the European companies supports applications designed for office-of-finance reporting. Samples applications can include inter-company eliminations and consolidation up to the top node - GO Consolidated. In this structure, aggregations of the European organizations occur through GO Accessories.
The resulting unbalanced hierarchy has one additional level, as shown in the following table. At level 3 of the org structure, GO Central Europe (GOCEU) is at the same level as the operations department for GO Americas (GOAMXOP).

**Table 20. Sample Hierarchy. Organization level of GO Accessories**

<table>
<thead>
<tr>
<th>Level</th>
<th>Example (ID)</th>
<th>Example (data)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Org level 1</td>
<td>GOCON</td>
<td>GO CONSOLIDATED</td>
</tr>
<tr>
<td>Org level 2</td>
<td>GOAMX</td>
<td>GO Americas</td>
</tr>
<tr>
<td></td>
<td>GOEUX</td>
<td>GO Accessories</td>
</tr>
<tr>
<td>Org level 3</td>
<td>GOAMXOP</td>
<td>GO Americas operations</td>
</tr>
<tr>
<td></td>
<td>GOCEU</td>
<td>GO Central Europe</td>
</tr>
<tr>
<td>Org level 4</td>
<td>30 GOCEUOP</td>
<td>Sales branch 30 - Sao Paulo - BRA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GO Central Europe operations</td>
</tr>
<tr>
<td>Org level 5</td>
<td>30 6</td>
<td>Sales branch 30 - Sao Paulo - BRA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sales branch 6 - Paris - FRA</td>
</tr>
</tbody>
</table>

**Balanced hierarchy - view**

You can use views to balance the organization hierarchy by side-stepping the relationship between GO Accessories and the European companies. Use a view when you want to create samples that show metrics and aggregations that are distinct for each corporate entity.

**Gosales VIEW_BALANCED_ORG**

```sql
SELECT TOP 100 PERCENT ORGANIZATION_1.ORGANIZATION_PARENT AS ORG_LEVEL1_CODE,
gosaleshr.ORGANIZATION.ORGANIZATION_PARENT AS ORG_LEVEL2_CODE,
gosaleshr.ORGANIZATION.ORGANIZATION_CODE
FROM gosaleshr.ORGANIZATION ORGANIZATION_1
RIGHT OUTER JOIN gosaleshr.ORGANIZATION ON ORGANIZATION_1.ORGANIZATION_CODE = gosaleshr.ORGANIZATION.ORGANIZATION_PARENT
WHERE (gosaleshr.ORGANIZATION.ORGANIZATION_CODE BETWEEN N'006' AND N'8820')
ORDER BY ORGANIZATION_1.ORGANIZATION_PARENT,
gosaleshr.ORGANIZATION.ORGANIZATION_PARENT DESC,
gosaleshr.ORGANIZATION.ORGANIZATION_CODE
```

**gosalesdw.VIEW_BALANCED_ORG**

```sql
SELECT gosalesdw.GO_ORG_DIM.ORGANIZATION_KEY, GO_ORG_DIM_1.ORGANIZATION_PARENT AS ORG_LEVEL1_CODE,
gosalesdw.GO_ORG_DIM.ORGANIZATION_NAME_EN AS ORG_LEVEL1_NAME,
gosalesdw.GO_ORG_DIM.ORGANIZATION_CODE AS ORG_CODE
FROM gosalesdw.GO_ORG_DIM INNER JOIN gosalesdw.GO_ORG_NAME_LOOKUP ON gosalesdw.GO_ORG_DIM.ORGANIZATION_CODE = gosalesdw.GO_ORG_NAME_LOOKUP.ORGANIZATION_CODE
INNER JOIN gosalesdw.GO_ORG_NAME_LOOKUP_2 ON gosalesdw.GO_ORG_NAME_LOOKUP_2.ORGANIZATION_CODE = gosalesdw.GO_ORG_NAME_LOOKUP.ORGANIZATION_CODE
INNER JOIN gosalesdw.GO_ORG_NAME_LOOKUP_1 ON gosalesdw.GO_ORG_NAME_LOOKUP_1.ORGANIZATION_CODE = gosalesdw.GO_ORG_DIM.ORGANIZATION_CODE
```

---

86 IBM Cognos Business Intelligence Version 10.2.1: Samples for IBM Cognos Business Intelligence
The Sample Outdoors companies are divided into operating and corporate
departments. Each organization has the same structure.

Applications for financial and planning data use the department structure in the
sample budgets and forecasts.

Sales branches under operations, and HR departments under corporate, are the
richest sources of data for querying and analysis.

**Table 21. Sample Outdoors Departments**

<table>
<thead>
<tr>
<th>Division (GL)</th>
<th>Department (GL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate</td>
<td>Sales (Corporate)</td>
</tr>
<tr>
<td>Corporate</td>
<td>Marketing (1750)</td>
</tr>
<tr>
<td>Corporate</td>
<td>IS&amp;T</td>
</tr>
<tr>
<td>Corporate</td>
<td>Human Resources</td>
</tr>
<tr>
<td>Corporate</td>
<td>Finance</td>
</tr>
<tr>
<td>Corporate</td>
<td>Procurement</td>
</tr>
<tr>
<td>Operations</td>
<td>Sales branches</td>
</tr>
<tr>
<td>Operations</td>
<td>Production and Distribution</td>
</tr>
<tr>
<td>Operations</td>
<td>Customer Service</td>
</tr>
</tbody>
</table>

**GO Operations**

Metrics such as revenue, quantities, and cost of goods, aggregate through levels
from sales rep to branch to operations under each corporate banner.

Data from other departments ties into the sales data. For example, the marketing
department implements sales campaigns.

**Human Resources**

Human resources data exists for metrics such as compensation, benefits, training
and surveys. Employees are paid hourly, or receive salaries. Compensation may
including commission and bonuses. Vacation and sick days are part of the benefits
package.

Each Sample Outdoors organization is staffed by a variety of employees including
personnel for marketing, finance, sales, as well as those in other departments.
Employee history exists for employees that change positions or have new
managers.

In the warehouse data (GOSALES), the employee history is contained in a
slowly changing dimension, in which an employee code may be a repeating value
and the employee key is unique.

In the transactional data (GOSALES), employee history requires filtering on a date
range in order to assign transaction records to employees in the appropriate time
period. Filtering also prohibits double-counting that can occur with repeating employee codes. For example, to capture an accurate history of an employee at the time of training, the date range is qualified.

\[
\text{WHERE (TRAINING_DETAILS.TRAINING_DATE BETWEEN EMPLOYEE_HISTORY.RECORD_START_DATE AND EMPLOYEE_HISTORY.RECORD_END_DATE)}
\]

Alternatively, you can select active records by filtering out employee history, which returns only the current manager or job position of the employee.

\[
\text{WHERE (EMPLOYEE_HISTORY.RECORD_END_DATE IS NULL)}
\]

---

**Warehouse Schema**

**Gosalesdw Schema**

*Table 22. Great Outdoors sales data warehouse schema*

<table>
<thead>
<tr>
<th>Table Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIST_INVENTORY_FACT 53,837</td>
<td>Distribution</td>
</tr>
<tr>
<td>DIST_PRODUCT_FORECAST_FACT 129,096</td>
<td>Distribution</td>
</tr>
<tr>
<td>DIST_RETURN_REASON_DIM 5</td>
<td>Distribution</td>
</tr>
<tr>
<td>DIST_RETURNED_ITEMS_FACT 10,249</td>
<td>Distribution</td>
</tr>
<tr>
<td>EMP_EXPENSE_FACT 127,984</td>
<td>Distribution</td>
</tr>
<tr>
<td>EMP_EXPENSE_PLAN_FACT 30,150</td>
<td>Distribution</td>
</tr>
<tr>
<td>EMP_EXPENSE_TYPE_DIM 39</td>
<td>Distribution</td>
</tr>
<tr>
<td>FIN_ACCOUNT_DIM 242</td>
<td>Finance</td>
</tr>
<tr>
<td>FIN_FINANCE_FACT 164,132</td>
<td>Finance</td>
</tr>
<tr>
<td>FIN_SUBM_DIM 52</td>
<td>Finance</td>
</tr>
<tr>
<td>GO_BRANCH_DIM 29</td>
<td>Geography</td>
</tr>
<tr>
<td>GO_REGION_DIM 21</td>
<td>Geography</td>
</tr>
<tr>
<td>MRK_PROD_SURVEY_TARG_FACT 5,824</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_PRODUCT_SURVEY_DIM 7</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_PRODUCT_SURVEY_FACT 165,074</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_PROMOTION_DIM 112</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_PROMOTION_FACT 11,034</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_PROMOTION_PLAN_FACT 8,652</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_RTL_SURVEY_DIM 9</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_RTL_SURVEY_FACT 22,508</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_RTL_SURVEY_TARG_FACT 64</td>
<td>Marketing</td>
</tr>
<tr>
<td>EMP_POSITION_DIM 57</td>
<td>Organization</td>
</tr>
<tr>
<td>GO_ORG_DIM 123</td>
<td>Organization</td>
</tr>
<tr>
<td>EMP_EMPLOYEE_DIM 972</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_POSITION_SUMMARY_FACT 15,050</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_RANKING_DIM 5</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_RANKING_FACT 1,897</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_RECRUITMENT_DIM 14</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_RECRUITMENT_FACT 416</td>
<td>Personnel</td>
</tr>
</tbody>
</table>
Table 22. Great Outdoors sales data warehouse schema (continued)

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMP_SUCCESSION_FACT</td>
<td>181</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_SUCCESSION_STATUS_DIM</td>
<td>5</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_SUMMARY_FACT</td>
<td>24,233</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_SURVEY_FACT</td>
<td>5,725</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_SURVEY_TARG_FACT</td>
<td>20</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_SURVEY_TOPIC_DIM</td>
<td>5</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_TRAINING_DIM</td>
<td>42</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_TRAINING_FACT</td>
<td>4,465</td>
<td>Personnel</td>
</tr>
<tr>
<td>GO_SATISFACTION_DIM</td>
<td>5</td>
<td>Personnel</td>
</tr>
<tr>
<td>SLS_PRODUCT_DIM</td>
<td>274</td>
<td>Product</td>
</tr>
<tr>
<td>MRK_ACTIVITY_STATUS_DIM</td>
<td>2</td>
<td>Retailer</td>
</tr>
<tr>
<td>SLS_RTL_DIM</td>
<td>847</td>
<td>Retailer</td>
</tr>
<tr>
<td>SLS_ORDER_METHOD_DIM</td>
<td>7</td>
<td>Sales</td>
</tr>
<tr>
<td>SLS_SALES_FACT</td>
<td>446,023</td>
<td>Sales</td>
</tr>
<tr>
<td>SLS_SALES_ORDER_DIM</td>
<td>446,023</td>
<td>Sales</td>
</tr>
<tr>
<td>SLS_SALES_TARG_FACT</td>
<td>233,625</td>
<td>Sales</td>
</tr>
<tr>
<td>GO_TIME_DIM</td>
<td>1,465</td>
<td>Time</td>
</tr>
<tr>
<td>Xgorev</td>
<td>15</td>
<td>Database Admin</td>
</tr>
</tbody>
</table>

Gosalesdw Lookup tables

Table 23. Great Outdoors sales data warehouse Lookup

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMP_EXPENSE_UNIT_LOOKUP</td>
<td>3</td>
<td>Expenses</td>
</tr>
<tr>
<td>FIN_ACCOUNT_CLASS_LOOKUP</td>
<td>5</td>
<td>Finance</td>
</tr>
<tr>
<td>FIN_ACCOUNT_NAME_LOOKUP</td>
<td>242</td>
<td>Finance</td>
</tr>
<tr>
<td>FIN_ACCOUNT_TYPE_LOOKUP</td>
<td>4</td>
<td>Finance</td>
</tr>
<tr>
<td>FIN_SUBM_CURRENCY_LOOKUP</td>
<td>7</td>
<td>Finance</td>
</tr>
<tr>
<td>FIN_SUBM_TYPE_LOOKUP</td>
<td>3</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_BUNDLE_GROUP_LOOKUP</td>
<td>15</td>
<td>Marketing</td>
</tr>
<tr>
<td>MRK_CAMPAIGN_LOOKUP</td>
<td>12</td>
<td>Organization</td>
</tr>
<tr>
<td>EMP_POSITION_LOOKUP</td>
<td>57</td>
<td>Organization</td>
</tr>
<tr>
<td>GO_ORG_NAME_LOOKUP</td>
<td>123</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMP_TERMINATION_LOOKUP</td>
<td>6</td>
<td>Personnel</td>
</tr>
<tr>
<td>GO_GENDER_LOOKUP</td>
<td>2</td>
<td>Product</td>
</tr>
<tr>
<td>SLS_PRODUCT_BRAND_LOOKUP</td>
<td>28</td>
<td>Product</td>
</tr>
<tr>
<td>SLS_PRODUCT_COLOR_LOOKUP</td>
<td>27</td>
<td>Product</td>
</tr>
<tr>
<td>SLS_PRODUCT_LINE_LOOKUP</td>
<td>5</td>
<td>Product</td>
</tr>
<tr>
<td>SLS_PRODUCT_LOOKUP</td>
<td>274 per language</td>
<td>Product</td>
</tr>
<tr>
<td>SLS_PRODUCT_SIZE_LOOKUP</td>
<td>55</td>
<td>Product</td>
</tr>
</tbody>
</table>
### Table 23. Great Outdoors sales data warehouse Lookup (continued)

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLS_PRODUCT_TYPE_LOOKUP</td>
<td>21</td>
<td>Product</td>
</tr>
<tr>
<td>GO_TIME_QUARTER_LOOKUP</td>
<td>20</td>
<td>Time</td>
</tr>
</tbody>
</table>

### Transaction Schemas

**Gosales Schema**

### Table 24. Great Outdoors sales schema

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>INVENTORY_LEVELS</td>
<td>53,837</td>
<td>Distribution</td>
</tr>
<tr>
<td>PRODUCT_FORECAST</td>
<td>129,096</td>
<td>Distribution</td>
</tr>
<tr>
<td>RETURN_REASON</td>
<td>5</td>
<td>Distribution</td>
</tr>
<tr>
<td>RETURNED_ITEM</td>
<td>10,249</td>
<td>Distribution</td>
</tr>
<tr>
<td>BRANCH</td>
<td>29</td>
<td>Geography</td>
</tr>
<tr>
<td>COUNTRY</td>
<td>21</td>
<td>Geography</td>
</tr>
<tr>
<td>SALES_REGION</td>
<td>5</td>
<td>Geography</td>
</tr>
<tr>
<td>PRODUCT</td>
<td>274</td>
<td>Product</td>
</tr>
<tr>
<td>PRODUCT_BRAND</td>
<td>28</td>
<td>Product</td>
</tr>
<tr>
<td>PRODUCT_LINE</td>
<td>5</td>
<td>Product</td>
</tr>
<tr>
<td>PRODUCT_TYPE</td>
<td>21</td>
<td>Product</td>
</tr>
<tr>
<td>CONVERSION_RATE</td>
<td>624</td>
<td>Sales</td>
</tr>
<tr>
<td>EURO_CONVERSION</td>
<td>8</td>
<td>Sales</td>
</tr>
<tr>
<td>ORDERDETAILS</td>
<td>446,023</td>
<td>Sales</td>
</tr>
<tr>
<td>ORDER_HEADER</td>
<td>53,256</td>
<td>Sales</td>
</tr>
<tr>
<td>ORDER_METHOD</td>
<td>7</td>
<td>Sales</td>
</tr>
<tr>
<td>SALES_TARGET</td>
<td>233,625</td>
<td>Sales</td>
</tr>
<tr>
<td>TIME_DIMENSION</td>
<td>1,465</td>
<td>Time</td>
</tr>
<tr>
<td>xgorev</td>
<td>16</td>
<td>Database admin</td>
</tr>
</tbody>
</table>

### Gosales Lookup tables

### Table 25. Great Outdoors sales Lookup tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Record Count</th>
<th>Functional Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT_COLOR_LOOKUP</td>
<td>27</td>
<td>Product</td>
</tr>
<tr>
<td>PRODUCT_NAME_LOOKUP</td>
<td>274 per language</td>
<td>Product</td>
</tr>
<tr>
<td>PRODUCT_SIZE_LOOKUP</td>
<td>55</td>
<td>Product</td>
</tr>
<tr>
<td>CURRENCY_LOOKUP</td>
<td>21</td>
<td>Sales</td>
</tr>
<tr>
<td>TIME_QUARTER_LOOKUP</td>
<td>20</td>
<td>Time</td>
</tr>
</tbody>
</table>
Gosaleshr Schema

Table 26. Great Outdoor sales human resources schema

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMPLOYEE_EXPENSE_DETAIL</td>
<td>127,997</td>
<td>Expenses</td>
</tr>
<tr>
<td>EMPLOYEE_EXPENSE_PLAN</td>
<td>37,317</td>
<td>Expenses</td>
</tr>
<tr>
<td>EMPLOYEE_SUMMARY</td>
<td>24,233</td>
<td>Expenses</td>
</tr>
<tr>
<td>EMPLOYEE_SURVEY_TOPIC</td>
<td>5</td>
<td>Expenses</td>
</tr>
<tr>
<td>EXPENSE_GROUP</td>
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<td>EXPENSE_UNIT</td>
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<td>ORGANIZATION</td>
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<td>POSITION_DEPARTMENT</td>
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<tr>
<td>POSITION_SUMMARY</td>
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</tr>
<tr>
<td>EMPLOYEE</td>
<td>766</td>
<td>Personnel</td>
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<tr>
<td>EMPLOYEE_HISTORY</td>
<td>972</td>
<td>Personnel</td>
</tr>
<tr>
<td>EMPLOYEE_SURVEY_RESULTS</td>
<td>5,725</td>
<td>Personnel</td>
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<td>EMPLOYEE_SURVEY_TARGETS</td>
<td>20</td>
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<tr>
<td>RANKING</td>
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<tr>
<td>RANKING_RESULTS</td>
<td>1,898</td>
<td>Personnel</td>
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<td>RECRUITMENT</td>
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<td>RECRUITMENT_MEDIUM</td>
<td>14</td>
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<tr>
<td>RECRUITMENT_TYPE</td>
<td>7</td>
<td>Personnel</td>
</tr>
<tr>
<td>SATISFACTION_INDEX</td>
<td>5</td>
<td>Personnel</td>
</tr>
<tr>
<td>SUCCESSION_DETAILS</td>
<td>182</td>
<td>Personnel</td>
</tr>
<tr>
<td>SUCCESSOR_STATUS</td>
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<td>Personnel</td>
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<tr>
<td>TRAINING</td>
<td>42</td>
<td>Personnel</td>
</tr>
</tbody>
</table>

Gosaleshr Lookup tables

Table 27. Great Outdoors sales human resources Lookup tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEPARTMENT_LOOKUP</td>
<td>12</td>
<td>Organization</td>
</tr>
<tr>
<td>POSITION_LOOKUP</td>
<td>45</td>
<td>Organization</td>
</tr>
<tr>
<td>GENDER_LOOKUP</td>
<td>2</td>
<td>Personnel</td>
</tr>
<tr>
<td>TERMINATION_LOOKUP</td>
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<td>Personnel</td>
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<tr>
<td>TRAINING_DETAILS</td>
<td>4,471</td>
<td>Personnel</td>
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</table>

Gosalesmr Schema

Table 28. Great Outdoors sales marketing schema

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT_SURVEY_RESULTS</td>
<td>165,074</td>
<td>Marketing</td>
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<tr>
<td>PRODUCT_SURVEY_TARGETS</td>
<td>5,824</td>
<td>Marketing</td>
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Table 28. Great Outdoors sales marketing schema (continued)

<table>
<thead>
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<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
</thead>
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<td>PRODUCT_SURVEY_TOPIC</td>
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<td>Marketing</td>
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<tr>
<td>PROMOTION_BUNDLE_GROUP</td>
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<td>PROMOTION_CAMPAIGN</td>
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<td>Marketing</td>
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<td>PROMOTION_PLAN</td>
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<td>PROMOTIONS</td>
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<td>RETAILER_SURVEY_RESULTS</td>
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<td>RETAILER_SURVEY_TARGETS</td>
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<td>Marketing</td>
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<td>RETAILER_SURVEY_TOPIC</td>
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</table>

Gosalesrt Schema

Table 29. Great Outdoors sales retailer

<table>
<thead>
<tr>
<th>Table</th>
<th>Record count</th>
<th>Functional area</th>
</tr>
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<tbody>
<tr>
<td>ACTIVITY_STATUS_LOOKUP</td>
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<td>Retailer</td>
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<td>RETAILER</td>
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<td>RETAILER_ACTIVITY</td>
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<td>RETAILER_CONTACT</td>
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<td>Retailer</td>
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<tr>
<td>RETAILER_SITE</td>
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<td>Retailer</td>
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<td>RETAILER_SITE_MB</td>
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<td>Retailer</td>
</tr>
<tr>
<td>RETAILER_TYPE</td>
<td>8</td>
<td>Retailer</td>
</tr>
</tbody>
</table>
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