

Not just a 'Webulator': IBM i Access for Web Leveraging Print and Database Capabilities

Session #580029

Agenda Key: 35FC

Speaker Name: Wayne Bowers (wbowers@us.ibm.com)

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Monday			
8:00am 9:30am	Monorail A & Monorail B	OPEN LAB: Test Drive IBM i Access for Web	420063
8:00am 9:30am	Monorail A & Monorail B	OPEN LAB: Administrators Get Started with IBM i Access for Web	520027
Tuesday			
9:30am	Magic Kingdom Ballroom 3	Get to the Web Fast with IBM i Access for Web: Including 5250 Browser Access	409136
→ 2:00pm	Magic Kingdom Ballroom 3	Not Just a 'Webulator': IBM i Access for Web Leveraging Print and Database Capabilities	580029
Wednesday			
3:30pm	Safari	What Administrators Need to Know about IBM i Access for Web: Restricting Access & Other Considerations	420016

- **Access for Web Overview**
- **Access for Web Print Capabilities**
- **Access for Web Database Capabilities**

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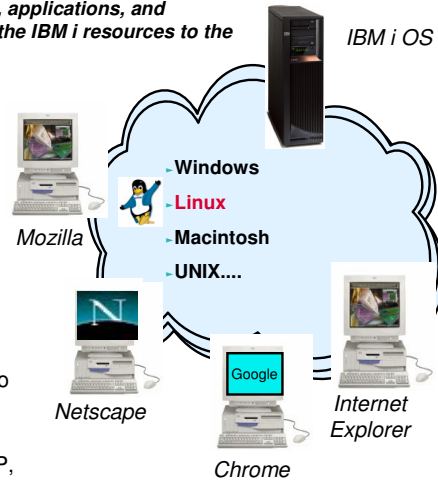
End users can leverage business information, applications, and resources across an enterprise by extending the IBM i resources to the client desktop through a web browser

Provides access to IBM i through a browser

- 5250 access
- Access to database, integrated file system, printers, output queues, jobs
- Can run batch commands and send/receive messages

It has the following advantages:

- Is server based
- Requires only a browser on the client, no configuration required at desktop, no applets installed on desktop
- Uses industry standard protocols - HTTP, HTTPS and HTML



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Access for Web functions include:

- *Print* - printer output, shared printers, and output queues
- *Messages* - user messages, message queues, send messages
- *Jobs* - work with jobs and server jobs
- *5250 interface*
- *Database* - run SQL statements, work with tables, upload data
- *Files* - work with files in the IFS or in shared folders, upload files to the IFS or a Netserver share.
- *Command* - run IBM i OS commands from the browser.

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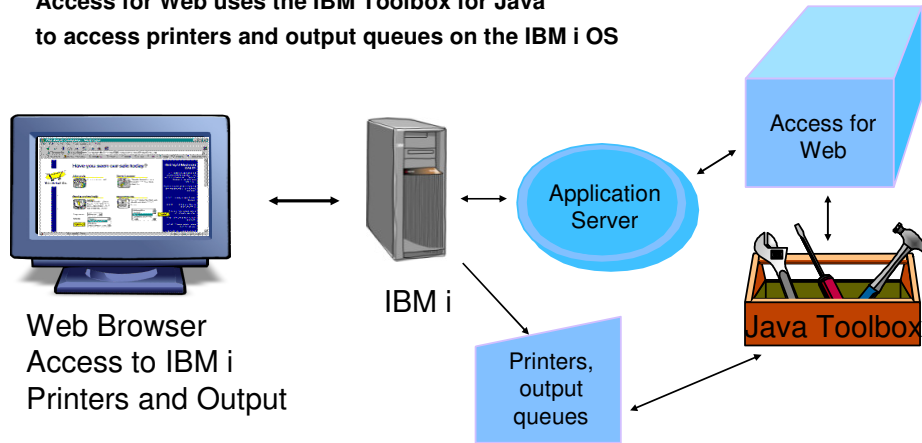
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- **Printing Functional Overview**
- **Printer Output**
- **Printers**
- **Internet Print Protocol**
- **Printer Shares**
- **Output Queues**

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Access for Web uses the IBM Toolbox for Java to access printers and output queues on the IBM i OS



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Access for Web has many end user functions for printing and print management.



- Printer output - preview, manage output
- PDF printer output – view, manage PDF printer output
- Printers - view and manage printers and output
- PDF printers – view and manage PDF printers
- Internet printers - list and manage internet printers
- Internet printer shares – list and manage internet printer shares
- Printer shares - view printers and manage output
- Output queues - view and manage queues and output

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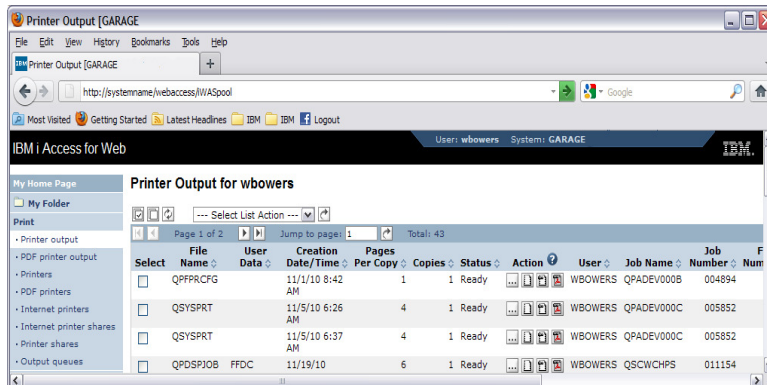
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- Display spooled files for the signed on user for all output queues
- Use navigation to navigate list
- List shows spooled file attributes - pages per copy, number of copies



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View SCS and AFP spooled files in several formats:

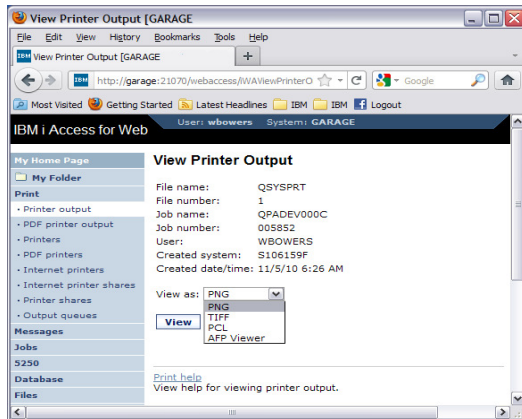
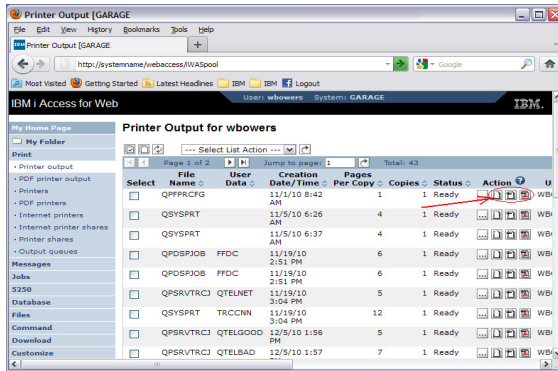
- PNG
- TIFF
- PCL
- AFP
 - AFP Plugin
 - AFP Viewer

View

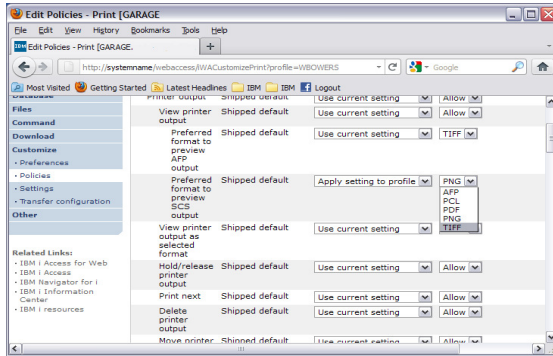
- Configure default view in Preferences

View as

- Select format to view

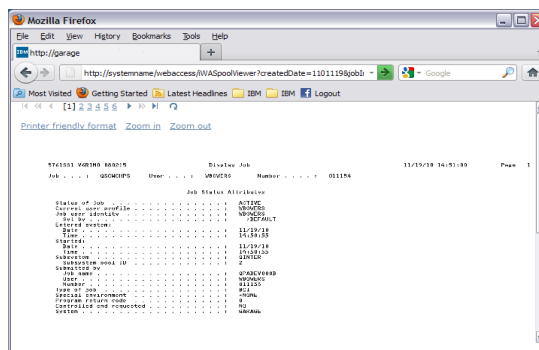


- PNG
- TIFF
- PCL
- AFP viewer
 - AFP Viewer plug-in
 - AFP Viewer

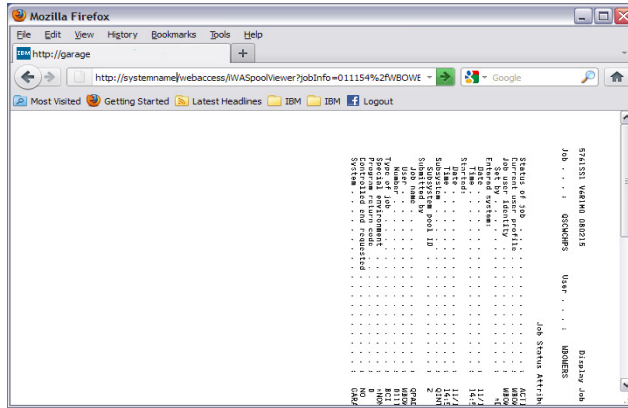


- Customize preference or policy
- Select format to view printer output

- Rendered as PNG images inside HTML
- Displayed one page at a time
- Use page navigation to navigate between pages
- Zoom in and out



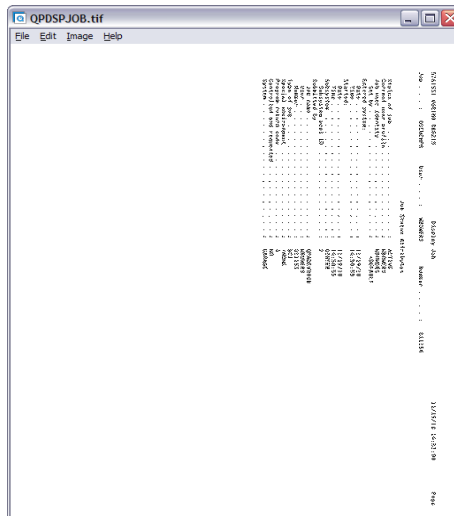
- Rotated to correct orientation for printing
- Removed navigation
- Print from the browser



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- Graphic format
- Supported by external viewers and programs
- Print from viewer



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- View AFP output

The screenshot shows a window titled "Viewer - QPDSPJOB-1.scs" with a menu bar (File, Edit, View, Search, Notes, Options, Help) and a toolbar. The main content area displays the following text:

```

S761551 V6R1M0 080215          Display Job          11/19/10 14:51:00   Page 1
Job . . . : QSCWHP5   User . . . : W80WERS   Number . . . : 011154

Job Status Attributes
Status of job . . . . . : ACTIVE
Current user profile . . . . . : W80WERS
Job user identity . . . . . : W80WERS
Set by . . . . . : DEFAULT
Entered system:
Date . . . . . : 11/19/10
Time . . . . . : 14:50:55
Started:
Date . . . . . : 11/19/10
Time . . . . . : 14:50:55
Subsystem . . . . . : QINTER
Subsystem pool ID . . . . . : 2
Submitted by
Job name . . . . . : 8RADEV0008
User . . . . . : W80WERS
Number . . . . . : 011153
Type of job . . . . . : BC
Special equipment . . . . . : NONE
Program return code . . . . . : 0
Controlled and requested . . . . . : NO
System . . . . . : GARAGE
  
```

At the bottom of the window, it shows "100% DEFAULT No group is selected".

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- AFP Viewer Plugin

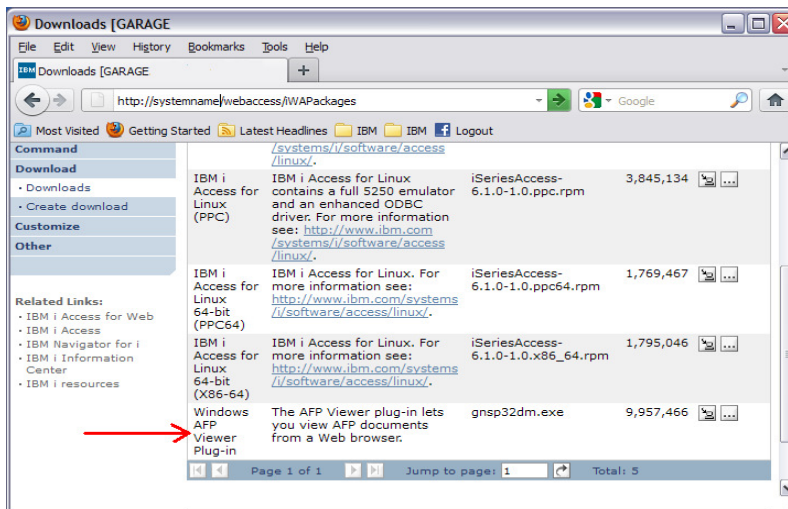
- Plugin for Internet Explorer and Mozilla web browsers
 - IBM Version 3.2.1.1 available as Download within Access for Web
 - InfoPrint Solutions Version 3.6.0.7 available from www.infoprint.com
 - InfoPrint Solutions was created as a joint venture between IBM and Ricoh and is completely owned by Ricoh

- AFP Workbench Viewer

- Available to be installed with IBM Access for Windows
- Also available with other InfoPrint Solutions products
- Greater function than the web browser plugin

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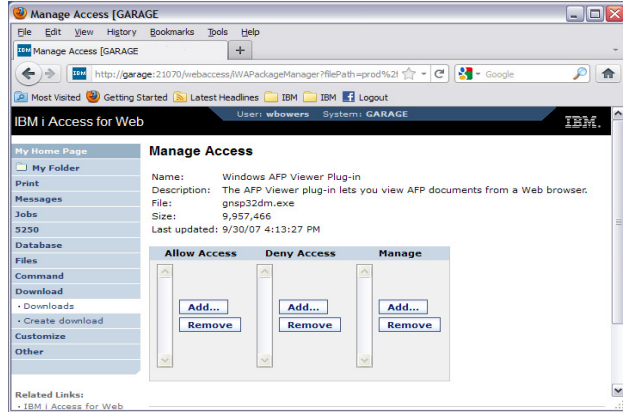
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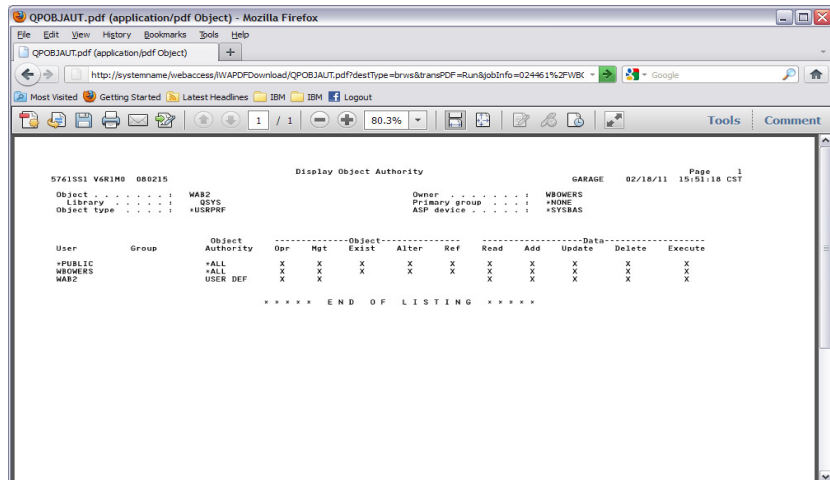
- **Default: only user profiles with SECADM special authority can access AFP Viewer and iSeries Access for Linux install images**
- **Grant access to users and groups**
- **Download->Downloads->Work With->Manage Access**
- **Control access authority to the file**
 - Grant access
 - Deny access
 - Grant manage authority

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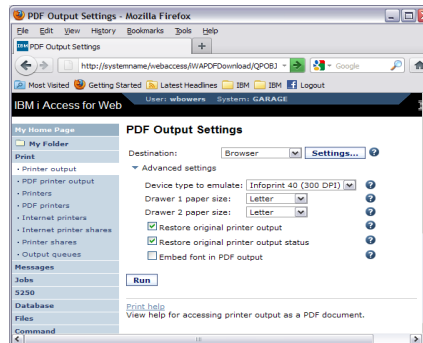
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- Grant access to specific user or group
- Deny access for specific user or group
- Grant manage authority to specific user or group



- **Select device type**
- **Select paper size**
 - default by browser locale
- **Select destination**
 - browser
 - mail as attachment
 - personal folder
- **Output is removed from the output queue if "Restore original printer output" is not checked**



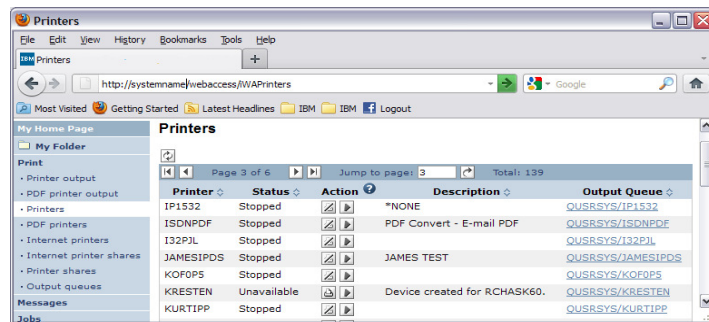
- **Utilizes either**
 - IBM Infoprint Server (5722-IP1) if installed
 - Can be disabled via Policy or Preference
 - Built in IBM Host Print Transform iText support
- **View printer output as PDF**
 - Requires PDF viewer such as Adobe Acrobat Reader
 - PDF generated by Infoprint Server has higher functionality
 - iText generated PDF is image only
- **Destination**
 - Browser
 - Preview or Save/Print from Browser PDF viewer
 - Mail as Attachment
 - Send PDF result as attachment to a list of email addresses
 - Status sent to own email address
 - Works well with large output files, runs in background
 - Send to personal folder
 - Send to user's own or other users' folders
 - Status sent to user's own folder
 - Works well with large output files, runs in background
- **"Restore original printer output" setting**
 - Places spooled file back on the output queue after being displayed, deleted if not selected
- **"Embed font in PDF output" setting**
 - Larger PDF document download size, but ensures font is available when viewing



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- View system printers
- Check printer status
- Perform Actions
 - Start
 - Stop
 - Make Available
 - Hold
 - Make Unavailable
- Basic and Advanced View



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- More advanced options
- Enabled in preferences
- Work with print writers
- Vary On/Vary Off printers
- View queue status

The screenshot shows a web browser window titled "Printers" with the URL "http://systemname/webaccess/WAPrinters". The page displays a table of printers with the following columns: Printer, Status, Action, Output Queue, Output Queue Status, Output Queue Action, Writer, Writer Status, Writer Action, and Description. The table lists four printers: A, AAA, ALTEXT, and ANNE. Each printer has a status of "Varied off" or "Varied On", an action icon, an output queue name (e.g., QUSRSYS/A), a status of "Released", and a writer status of "Ended".

Printer	Status	Action	Output Queue	Output Queue Status	Output Queue Action	Writer	Writer Status	Writer Action	Description
A	Varied off	[Action Icon]	QUSRSYS/A	Released	[Action Icon]		Ended	[Action Icon]	Device created for RCHASK60.
AAA	Varied off	[Action Icon]	QUSRSYS/AAA	Released	[Action Icon]		Ended	[Action Icon]	Device created for RCHASK60.
ALTEXT	Varied off	[Action Icon]	QUSRSYS/ALTEXT	Released	[Action Icon]		Ended	[Action Icon]	Device created for RCHASK60.
ANNE	Varied On	[Action Icon]	QUSRSYS/ANNE	Released	[Action Icon]		Ended	[Action Icon]	PDF Convert -

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List output for a printer

The screenshot shows the same web browser window as above, displaying the list of printers. The table structure and data are identical to the previous screenshot.

Printer	Status	Action	Output Queue	Output Queue Status	Output Queue Action	Writer	Writer Status	Writer Action	Description
A	Varied off	[Action Icon]	QUSRSYS/A	Released	[Action Icon]		Ended	[Action Icon]	Device created for RCHASK60.
AAA	Varied off	[Action Icon]	QUSRSYS/AAA	Released	[Action Icon]		Ended	[Action Icon]	Device created for RCHASK60.
ALTEXT	Varied off	[Action Icon]	QUSRSYS/ALTEXT	Released	[Action Icon]		Ended	[Action Icon]	Device created for RCHASK60.
ANNE	Varied On	[Action Icon]	QUSRSYS/ANNE	Released	[Action Icon]		Ended	[Action Icon]	PDF Convert -

Click on the output queue associated with a printer to list the output in the queue

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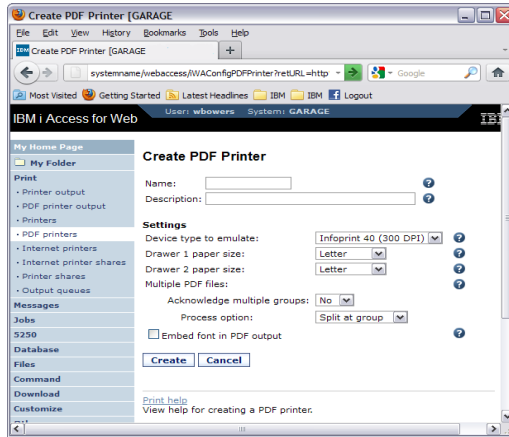
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- **Requires IBM InfoPrint Server (5722-IP1)**
- **Appears as an OS/400 printer device**
- **Printer output sent to printer is automatically converted to PDF**
 - Good way to generate PDF documents from 5250 applications

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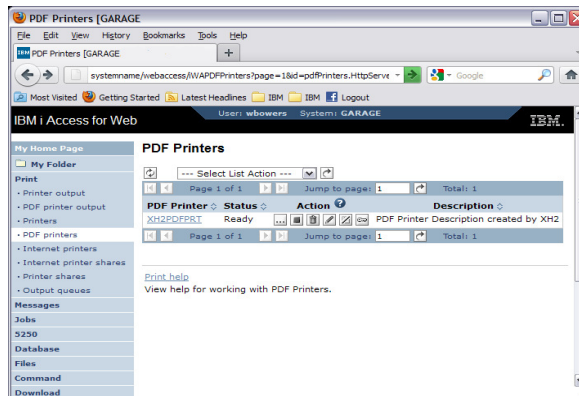
- Enter printer name (required)
- Enter printer description (optional)
- Adjust settings if appropriate
 - Default settings appropriate for most cases



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- View PDF output for printer
- Start/stop printer
- Work with printer
- Delete printer
- Change printer settings



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PDF Printer Output

systemname/webaccess/WAPDFPrinterOutput

PDF Printer Output

File Name	File Number	User	Creation Date/Time	Job Name	Job Number	Action
VGS3080T	3	CTAHAMI	2/1/10	QPADEV001Q	079676	[Icons]
VGS3080T	6	CTAHAMI	2/1/10	QPADEV001Q	079676	[Icons]
WF0028518	35	QTMLPD	3/5/10	QPRTJOB	635440	[Icons]
WF0028518	36	QTMLPD	3/5/10	QPRTJOB	635440	[Icons]
RBP693A1	39	QTMLPD	6/29/10	QPRTJOB	635440	[Icons]
QPMMSGD	3	KWALTON	7/14/10	QPADEV002C	982707	[Icons]
QFFFCFG	1	KWALTON	7/23/10	QPADEV001T	039787	[Icons]
QSYSVRT	1	KWALTON	7/27/10	JOETEST	059043	[Icons]
QRTLIBL	1	KWALTON	8/2/10	QPADEV001B	100503	[Icons]
QSYSVRT	2	KWALTON	8/4/10	QPADEV002R	115248	[Icons]
DSPPDFMAPE	3	KWALTON	8/4/10	QPADEV002R	115248	[Icons]
QSYSVRT	2	KWALTON	8/9/10	QPADEV001L	139860	[Icons]
QFSUPRTF	1	KWALTON	8/24/10	QPADEV000J	226002	[Icons]
QRTLIBL	2	KWALTON	8/24/10	QPADEV000J	226002	[Icons]

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- Lists PDF printer output produced by PDF printers for the logged on user
- Printer output actions
 - View
 - Copy to file
 - Copy to IFS file
 - Copy to folder
 - Copy to personal folder
 - Delete
 - Mail as attachment

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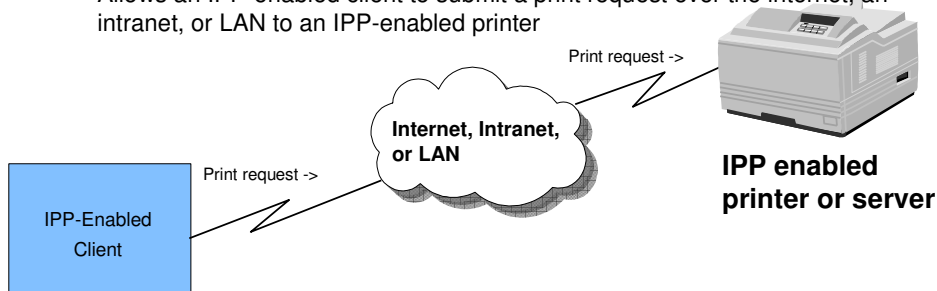


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▪ **IPP**

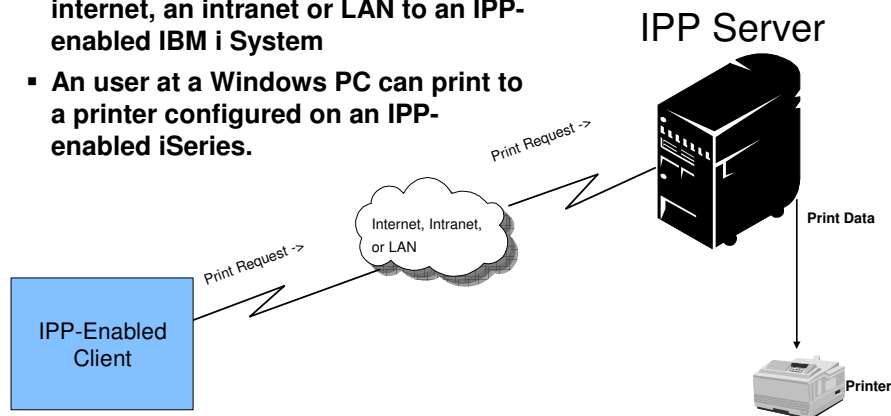
- Client-server protocol
- Industry standard, expected to replace LPR/LPD
- Allows an IPP-enabled client to submit a print request over the internet, an intranet, or LAN to an IPP-enabled printer



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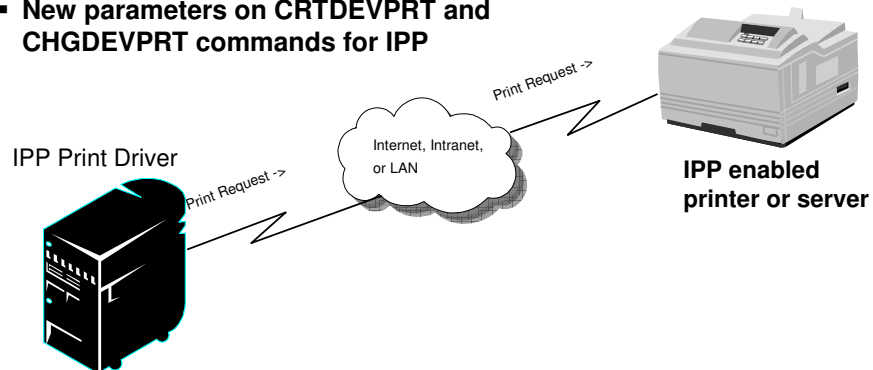
- **An IPP-enabled client is able to submit a print request, over the internet, an intranet or LAN to an IPP-enabled IBM i System**
- **An user at a Windows PC can print to a printer configured on an IPP-enabled iSeries.**



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- **New printer driver - *IBMIPPDRV**
- **Print from IBM i System to an IPP printer or server**
- **New parameters on CRTDEVPRT and CHGDEVPRT commands for IPP**



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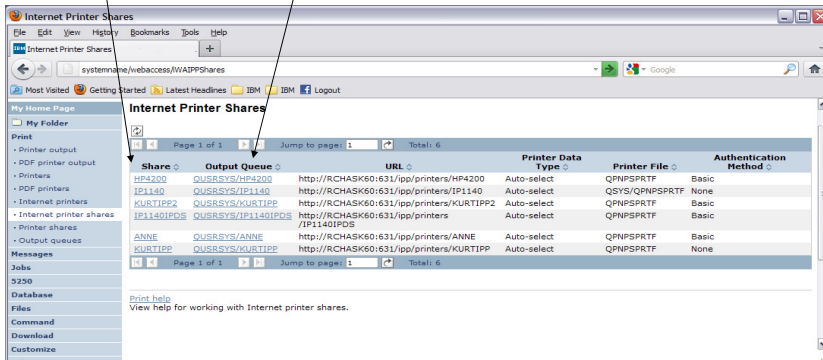
- **Access for Web displays the list of “Internet Printer Shares” defined on the IBM I System (IBM i as IPP server)**
 - List output in the queue
 - Control and display printer output
- **IBM i printers that are configured to print to an IPP printer (IBM i System as IPP client) are listed with “Internet Printers”**
 - Work with Internet Printers
 - Start/stop, etc

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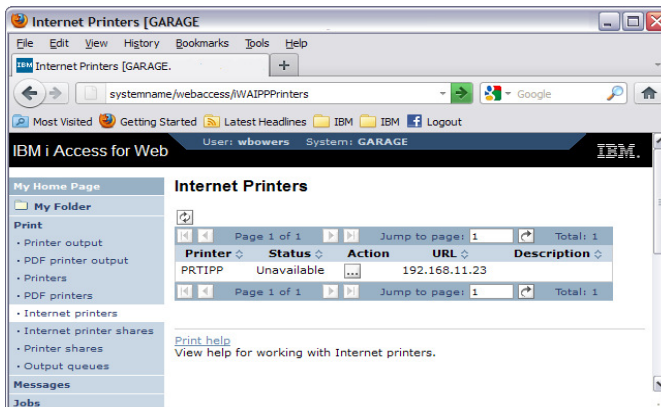
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Click on share name to manage the printer

Click on the output queue name to list printer output



- List Internet Printers
- Work with printer
 - Start/stop





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Click on share name to manage the printer

Click on the output queue name to display the printer output

Share	Output Queue	Printer Driver	Spooled File Data Type	Users	Description
HPS	QUSRSYS/HPS	Auto-select		0	Carl Drayton's Print Share
QFQF4PRTD	QUSRSYS/QFQF4PRTD	Advanced function printing		0	Facsimile Support/400
TIF2AFP	QUSRSYS/TIF2AFP	Auto-select		0	
TVMPR1	QUSRSYS/HP4200	Auto-select		0	Tom Mirsch

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- List output queues for current "filter"
- Click on output queue to display a list of spooled files
- View status
- Change status
- View number of spooled files on the queue
- View associated writer

Output Queue	Status	Action	Files	Writer
QDGL/QDGLCK	Released	[H]	0	
QDGL/QDPLAUTO	Released	[H]	0	
QDGL/QDPLINT	Released	[H]	263	
QDGL/QDPLINT2	Released	[H]	0	
QDGL/QDPLINT3	Released	[H]	0	
QDGL/QDPLINT4	Released	[H]	0	
QDGL/QDPLINT5	Released	[H]	0	
QDGL/QDPLINT6	Released	[H]	0	
QDGL/QDPLINT7	Released	[H]	0	
QDGL/QDPLINT8	Released	[H]	0	
QDGL/QDPLINT9	Released	[H]	0	
QDGL/QDPLINT10	Released	[H]	0	
QDGL/QDPLINT11	Released	[H]	0	
QDGL/QDPLINT12	Released	[H]	0	
QDGL/QDPLINT13	Released	[H]	0	
QDGL/QDPLINT14	Released	[H]	0	
QDGL/QDPLINT15	Released	[H]	0	
QDGL/QDPLINT16	Released	[H]	0	
QDGL/QDPLINT17	Released	[H]	0	
QDGL/QDPLINT18	Released	[H]	0	
QDGL/QDPLINT19	Released	[H]	0	
QDGL/QDPLINT20	Released	[H]	0	
QDGL/QDPLINT21	Released	[H]	0	
QDGL/QDPLINT22	Released	[H]	0	
QDGL/QDPLINT23	Released	[H]	0	
QDGL/QDPLINT24	Released	[H]	0	
QDGL/QDPLINT25	Released	[H]	0	
QDGL/QDPLINT26	Released	[H]	0	
QDGL/QDPLINT27	Released	[H]	0	

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▪ Access for Web Print:

- Preview and print output in several formats
- Manage printers
- Work with Internet printer shares
- Work with printer shares
- Manage output queues
- Preferences and Policies to control function,
 - See Presentation SS17 “What Administrators Need to Know about IBM i Access for Web: Restricting Access and Other Considerations”

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- **Database Functional Overview**
- **Copy Data to Table**
- **Run SQL**
- **My Requests**
- **Import Requests and Queries**
- **Extract IBM i Data**
- **Tables**
- **Appendix A: Database Capability Comparison**
 - Access for Web, Access for Windows and Access for Linux

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Access database tables with System i Access for Web.

Tables

- View a list of database tables on your target system.
- Perform actions on these tables without having knowledge of SQL and its syntax.
- View the contents of a table in a paged list, using the Quick view action.
- Add and update records in a table using the Insert and Update actions.
- Display the contents of a table record using the Find record action.
- Create your own customized SQL request for a table using the Run SQL action.
- Create your own customized copy data request for a table using the Copy data to table action.

My requests

- View a list of previously saved requests.
- Run or Edit requests from this list.
- Manage lists using the Copy, Delete, and Rename actions
- Create and manage shortcuts to requests

Run SQL

- Run SQL statements dynamically.
- View output as a paged list or in a popular file format, like Microsoft Excel or Lotus 1-2-3. (Output format depends on how you have your browser configured and whether the browser can locate a plug-in for the output type you choose.)
- Customize how data is returned by setting options specific to the output type.
- Build SELECT statements using an SQL Wizard.
- Save requests for repeated use.

Copy data to table

- Copy existing data files from your PC to a database table on your target system.
- These data files can be in many popular file formats, including Microsoft Excel and Lotus 1-2-3.
- Replace the contents of a table or add data to an existing table.
- Create a new database table based on the contents of a workstation file.
- Save requests for repeated use.

Import request

- Import Client Access Data Transfer upload and download requests into System i Access for Web copy data and SQL requests.
- Imported requests are automatically converted to System i Access for Web format.
- Run and edit converted requests just like other copy data and SQL requests.

Import query

- Import queries generated by Query for i5/OS and DB2 for i5/OS Query Manager.
- Imported queries can be saved into System i Access for Web database requests.
- Run and edit converted queries just like other System i Access for Web SQL requests.

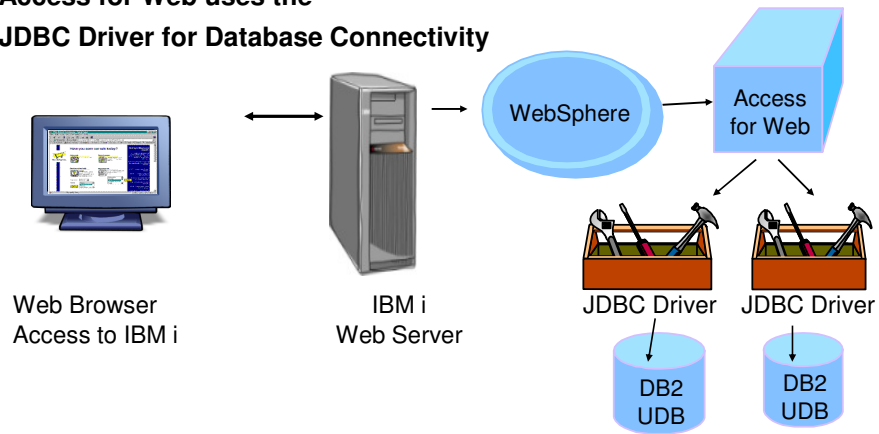
Extract i5/OS data

- Extract i5/OS object information into a database table.

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Access for Web uses the JDBC Driver for Database Connectivity



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Copy data to table function allows you to copy PC data into a DB2 for IBM i table

Specify:

- File name
- File type
- File settings
- Table name
- Replace or append records to table
- Connection

Copy data to table will create a new table if one does not exist

Choose to view or change the table definition

or

To simply create the table using the default definition determined by Access for Web

Verify column definitions for a new table

From this panel you may add a description, change data types, column length, and scale

Click Create Table to create the new table and copy your data to the new table

My Home Page

- My Folder
- Print
- Messages
- Jobs
- Database
 - Tables
 - My database
 - Run SQL
 - Copy data to table
 - Import query
 - Extract DTD data
- File
- Command
- Download
- Guidance
- Other
- Related links
 - System i Access for Web
 - System i Navigator
 - System i Navigator (HTML)
 - System i Resource Center

Table Column Definitions

Verifying column definitions before creating the table is recommended. You can change any of the column definition attributes before clicking Create Table.

Column	Description	Type	Length	Scale	Sample Data
BTYP		CHAR	1	0	T
BTNAME		CHAR	29	0	Miki Niki Original Tug
BPFEET		NUMERIC	3	0	126
BHSAR		NUMERIC	4	0	1844
BSCOST		NUMERIC	9	0	24900
BMT01		CHAR	71	0	-Located in Seattle, WA.
BMT02		CHAR	66	0	-The "FLORENCE FLIBERG" is an all-wood, single-deck raised forward
BMT03		CHAR	68	0	hull all-wood, single-deck with sharp stem, molded hull and
BMT04		CHAR	64	0	elliptical stern. Decks have a pronounced sheer forward and the
BMT05		CHAR	69	0	electhouse is located amidship with low winch and robot gear
BMT06		CHAR	72	0	60kw generators.
BMT07		CHAR	72	0	- 7/91 survey says.
BMT08		CHAR	70	0	"As a motor yacht, she is markedly stronger than any commercial
BMT09		CHAR	72	0	yacht requirements and, therefore, with continued upgrading and
BMT10		CHAR	63	0	proper maintenance, the vessel should exceed its longevity as a
BMT11		CHAR	70	0	working vessel."
BMT12		CHAR	62	0	
BMT13		CHAR	55	0	
BMT14		CHAR	52	0	
BMT15		CHAR	49	0	
BHTNL		CHAR	12	0	MKHNK1.jpg
BHTM1		CHAR	0	0	
BHTM2		CHAR	0	0	



The Run SQL function allows you to type in a free-form SQL Statement

- If you do not know SQL, then use the SQL Wizard to help you generate an SQL SELECT statement
- Select from a variety of output formats, including:
 - Preview
 - PDF
 - .XLS (Excel)
 - XML
 - SVG
 - ...

Run SQL

SQL Statement ?

```
SELECT
FROM BOATS.BOATS
```

[SQL Wizard](#)

SQL Output ?

Type: [Settings](#)

Destination: [Settings](#)

Format ?

Date:

Time:

Connection ?

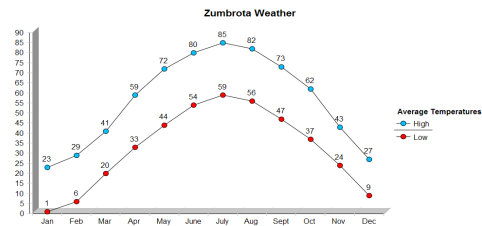
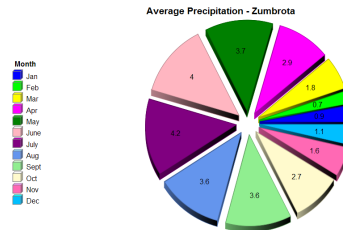
Connection:

[Run SQL](#) [Save Request...](#)

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- **Other output types**
 - Scalable Vector Graphics Chart (.svg)
 - Language for describing 2D graphics in XML
 - W3C standard
 - Text – Delimited (.txt)
- **Excel output types support Excel date/time formats**
- **Decimal floating point columns (DECFLOAT)**



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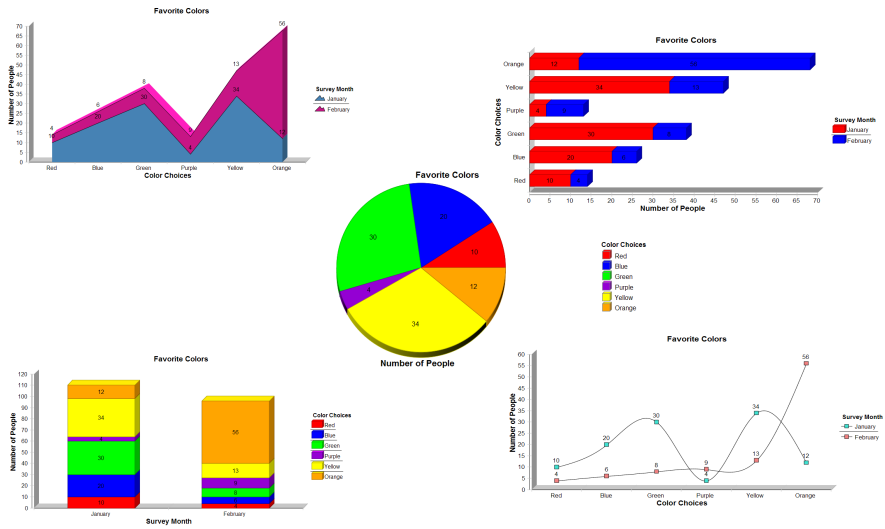
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▪ **Many configuration settings**

- Chart type
 - Area, Bar, Line, Pie
- Chart type settings
 - Area – curved areas, ...
 - Bar – vertical or horizontal, ...
 - Line – marker shape, ...
 - Pie – exploded pie, ...
- Size
- Legend location
- Colors

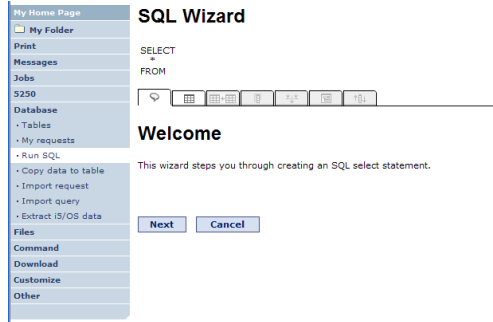
▪ **Same destination options**

- Browser, e-mail, file system, personal folder



The SQL Wizard helps you generate a **SELECT** statement

Includes support for joining tables

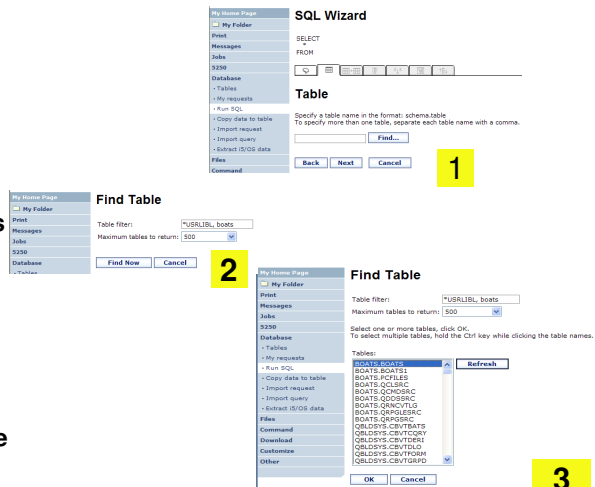


Step 1:

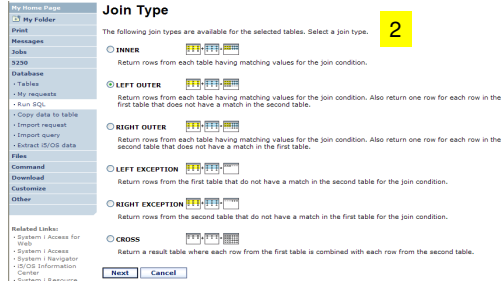
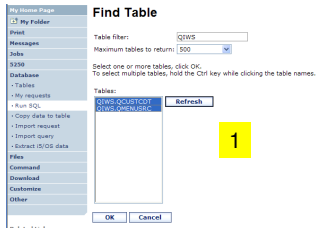
Choose a table

Type in a **table filter** to help narrow your search. Many schemas (libraries) may be specified by putting them in a comma separated list

Select a table and click OK to use it to generate the **SELECT** statement



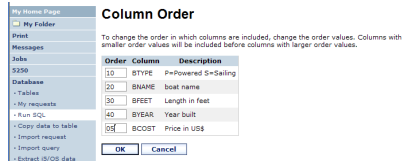
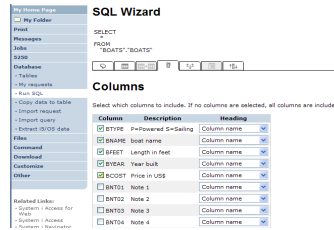
- Select multiple tables
- Select the join type
- Optionally add conditions



Step 2:

Choose columns

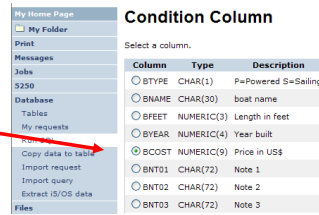
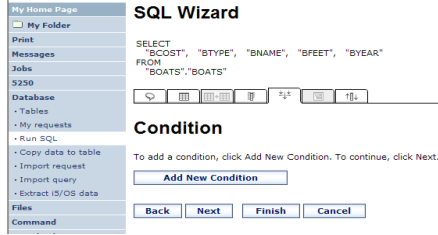
- Check the boxes next to the columns to include them in the statement
 - If you check none, you get all columns
- Click the column order button to change the order output
 - Changed Price from 50 to 05 so it would be first



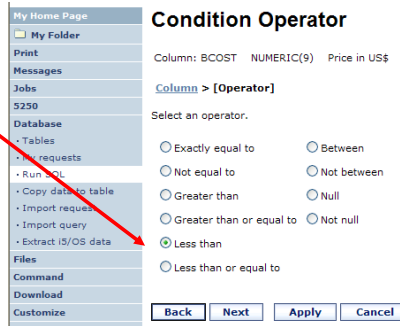
Step 3:

Adding conditions

- Conditions allow you to select records that meet certain criteria.
- Click Add New Condition to specify a condition.
- Select the column to use in the condition and click Next



- The SQL wizard allows you to choose the operator to use in the condition
- The condition shows up both in the SQL statement and in a condition list. You may edit or delete the condition.
- You may also add additional conditions.



- The SQL wizard allows you to choose if the condition value is specified in the request, or is prompted for when the request is run.
- Static or Dynamic

The SQL wizard allows you to specify the value for the condition.

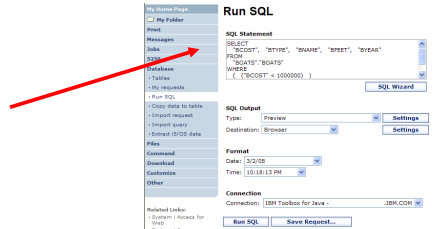
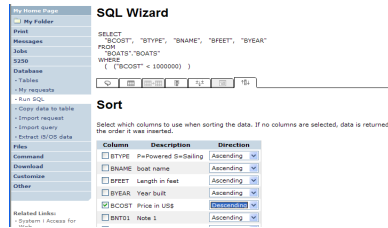
- The value can be:
- Constant or
 - Other specific function

Can find values in table

The statement is complete



- The statement is now complete.
- Click the Finish button (not shown) on the bottom of the SQL Wizard page to return to Run SQL
- The SELECT statement you generated is available for use in Run SQL



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Save the SQL Request

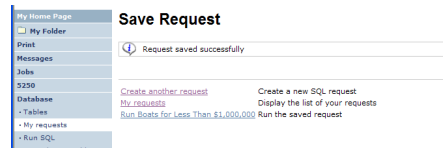
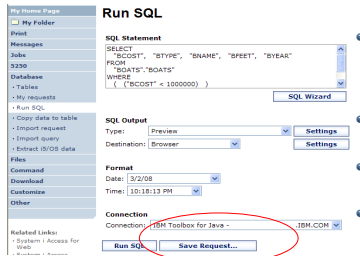


After creating a statement (by hand or with the SQL Wizard) you have the option to save it for later use

Can Run it now

Or

Run it later from "My Requests"



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Select to prompt for values when the request is run

My Home Page

My Folder

Print

Messages

Jobs

5250

Database

- Tables
- My requests
- Run SQL
- Copy data to table
- Import request
- Import query
- Extract IS/OS data

Files

Command

Download

Customize

Condition Value Option

Column: BCOST NUMERIC(9) Price in US\$
Operator: Less than or equal to

Column > Operator > [Value option]

Select how the condition value is specified.

Specify condition value now
The user is not prompted for input when the request is run. The SQL Wizard displays a page to enter the condition value.

Prompt for condition value when request is run
The user is prompted for the condition value when the request is run. The SQL Wizard displays pages to specify how the condition prompt is displayed.

- Choose a comparison operator just like we did in the static query example

My Home Page

My Folder

Print

Messages

Jobs

5250

Database

- Tables
- My requests
- Run SQL
- Copy data to table
- Import request
- Import query
- Extract IS/OS data

Files

Command

Download

Customize

Condition Operator

Column: BCOST NUMERIC(9) Price in US\$
Operator: [Operator]

Select an operator:

Exactly equal to Between

Not equal to Not between

Greater than Null

Greater than or equal to Not null

Less than Less than or equal to

- Select how the user will be prompted for the values

My Home Page

My Folder

Print

Messages

Jobs

5250

Database

- Tables
- My requests
- Run SQL
- Copy data to table
- Import request
- Import query
- Extract IS/OS data

Files

Command

Download

Customize

Condition Prompt - Option

Column: BCOST NUMERIC(9) Price in US\$
Operator: Less than or equal to
Value option: Prompt when request is run

Column > Operator > Value option > Prompt > [Option]

Select how the condition value is specified.

Enter value
The user enters the value in a field. The SQL Wizard displays a page to specify the initial value for this field.

Select from list of predefined values
The user selects the value from a list. The SQL Wizard displays a page to specify the values shown in the list.

Select from list of existing column values
The user selects the value from a list. The list contains the unique column values in the table when the request is run. The SQL Wizard displays a page to select the maximum number of values shown in the list. If this value is exceeded, the list is replaced with a field for the user to enter the value.

- Setting Initial Value that Boats can cost equal to or less than \$3,000,000

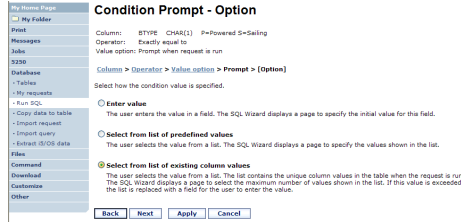
- Adding Text to explain to user what to enter in this column

- User can then change value

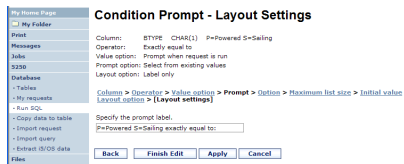
- Let's add another condition to this Dynamic SQL Request

Setting up Additional Operator & Prompt Type

- For 'Type of Boat', we will select from list of Types in our Database File

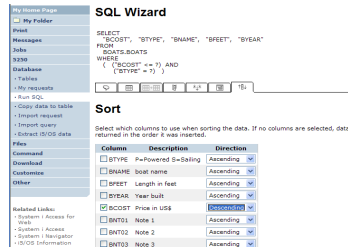


- Two (2) types of boats in the database file



Set Display Order & See Conditions

- Will display information based on 'Boat Cost' in descending order



- Shows how SQL has been written based on 2 Conditions



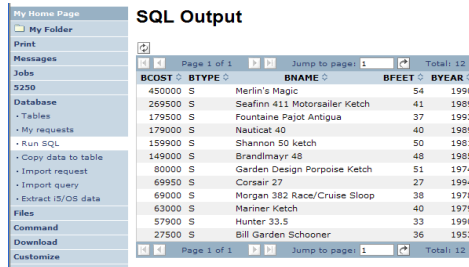
User selects

- Maximum cost of boat
- Type of Boat



Run SQL dialog box showing 'Boat Cost Upper Limit' set to 100000 and 'P=Powered S=Sailing exactly equal to:' with a dropdown menu.

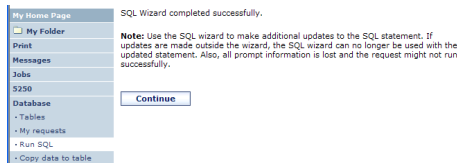
The SQL Output was set up to show in **Descending Order by Boat Cost**



SQL Output table with columns: BCOST, BTYPE, BNAME, BFEET, BYEAR. The data is sorted in descending order by BCOST.

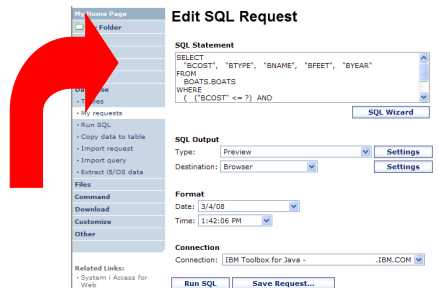
BCOST	BTYPE	BNAME	BFEET	BYEAR
450000	S	Merlin's Magic	54	1990
269500	S	Seafinn 411 Motorsailer Ketch	41	1989
179500	S	Fountain Pajot Antigua	37	1993
179000	S	Nauticat 40	40	1989
159900	S	Shannon 50 ketch	50	1981
149000	S	Brandimayr 46	46	1985
90000	S	Garden Design Porpoise Ketch	51	1974
69950	S	Corsair 27	27	1994
69000	S	Morgan 382 Race/Cruise Sloop	38	1978
63000	S	Manner Ketch	40	1979
57900	S	Hunter 33.5	33	1990
27500	S	Bill Garden Schooner	36	1953

- Dynamic queries generated by the wizard can only be modified using the wizard



SQL Wizard completed successfully. Note: Use the SQL wizard to make additional updates to the SQL statement. If updates are made outside the wizard, the SQL wizard can no longer be used with the updated statement. Also, all prompt information is lost and the request might not run successfully.

- If you wish to create your own you will need to manually add parameter markers directly into the SQL statements and create your own web page to prompt for the values



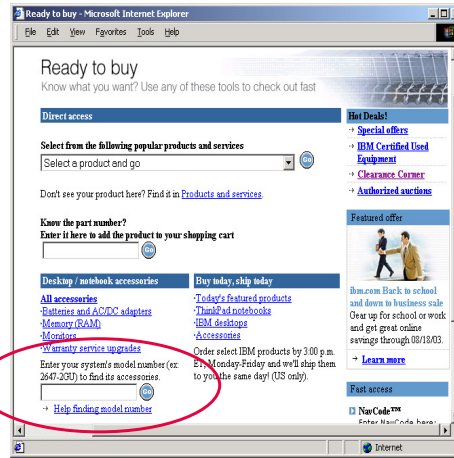
Edit SQL Request dialog box showing the SQL Statement: SELECT "BCOST", "BTYPE", "BNAME", "BFEET", "BYEAR" FROM BOATS.BOATS WHERE (("BCOST" <= ?) AND ...

- Want to use different button style
- Want button next to prompt control, not underneath it
- Form element:


```
<FORM name=accessories
            action="http://server/webaccess/iW
            ADbExec" method="get">
```
- Hidden element:


```
<input type="hidden" name="request"
            value="req" />
```
- Entry field:


```
<input type="text"
            name="iwaparm_1" value="" />
```



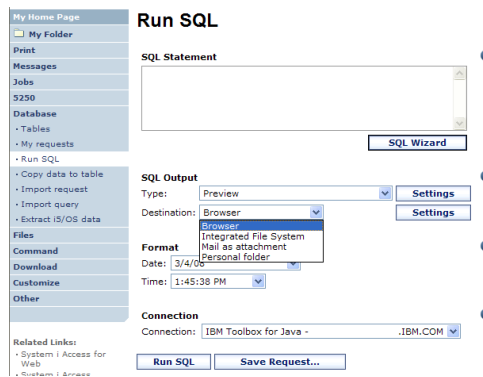
Great way to add Database requests to your existing web pages

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Choose from 4 different output destinations:

- Browser
- Email
- Personal folder
- Integrated File System



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The SQL statement is built indicating that Output Type is Microsoft Excel.

A1	A	B	C	D	E	F	G	H	I	J	K	L
	CUSTOMER	STNAME	INIT	STREET	CITY	STATE	ZIPCODE	CODLMT	CHGCODE	BALDUE	COTDUE	
1	93847	Truong	G K	4859 Elm	Dallas	TX	75217	5000	3	37	0	
2	83283	Jones	B D	218 NW 1	Clay	NY	13041	400	1	100	0	
3	30285	Vine	S S	470 Oak	Windsor	VT	5846	100	1	429	0	
4	93845	Johnson	J A	3 Alpine	ViHelen	GA	30545	9999	2	3987	5	33.5
5	30787	Tyron	W E	13 Myrtle	Hector	NY	14841	1000	1	0	0	
6	38870	Stevens	K L	208 Snow	Denver	CO	80206	400	1	6875	1.6	
7	84620	Alison	J S	787 Lake	Clele	MN	56342	5000	3	19	0	
8	47088	Doe	J W	59 Archer	Sutter	CA	94685	100	2	250	180	
9	69326	Thomas	A N	3 Drew	ChCasper	WY	82089	9999	2	0	0	
10	58309	Williams	E D	485 SE 2	Dallas	TX	75218	200	1	25	0	
11	58287	Lee	F L	5953 Oak	Hector	NY	14841	700	2	489.5	0.5	
12	58390	Abraham	M T	392 Mill	Stiale	MN	56342	9999	3	500	0	
13												
14												

Browser sees the .xls format type, starts Excel or viewer, and displays the results

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The SQL statement is built indicating that:

- Output Type is PDF
- Destination is Email

Access for Web converts SQL output to .PDF and attaches it to an email.

Note: my email address has been filled in from properties

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The SQL statement is built indicating that:

- Output Type is HTML
- Destination is My Folder
- Click on **My Folder** link
- Select SQL Output
- Shown to me in HTML

Select	Item	Status	From	Date/Time	Size	Action
<input type="checkbox"/>	SQL output in HTML	Unopened	Jhansen	3/4/08 2:00 PM	2597	[Icons]
<input type="checkbox"/>	Status [SQL output in HTML]	Unopened	Jhansen	3/4/08 2:00 PM	202	[Icons]

```

MYLSTNAMMYCITYMYSTATE
Henning Dallas TX
Jones Clay NY
Vine Broton VT
Tyron Hector NY
Stevens Denver CO
Alison Isle MN
Doe Surler CA
Thomas Casper WY
Williams Dallas TX
Lee Hector NY
Abrham Isle MN
    
```

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The SQL statement is built indicating that:

1. Output Type is HTML
2. Destination is Integrated File System
3. Next screen select '/JHANSEN' directory
4. Click on 'Files' tab
5. Open JHANSEN directory
6. Click on file name
7. Results shown in HTML

Name	Size (bytes)	Type	Modified	Action
.. (Parent Directory)				[Icons]
sqlOutput.html	2587	File	3/4/08 2:20:52 PM	[Icons]
sqlOutput.pdf	4993	File	3/4/08 2:20:50 PM	[Icons]
sqlOutput.xls	2855	File	3/4/08 2:20:09 PM	[Icons]

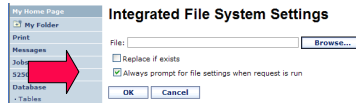
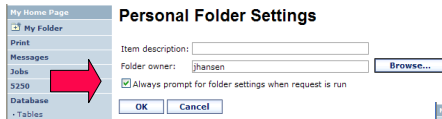
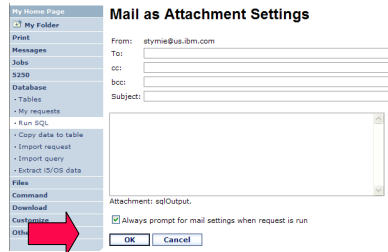
```

MYLSTNAMMYCITYMYSTATE
Henning Dallas TX
Jones Clay NY
Vine Broton VT
Tyron Hector NY
Stevens Denver CO
Alison Isle MN
Doe Surler CA
Thomas Casper WY
Williams Dallas TX
Lee Hector NY
Abrham Isle MN
    
```

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You can specify the folder, mail, and integrated file system settings before the request is run

Or you can wait until the request is run



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Requests that are saved for an user to run again at any time.

Requests are saved by an user.

Or, an Administrator creates queries or upload requests for end users to run.

- Selected Users are then given access to run these selected data requests. These are called Shortcuts

Request	Description	Action	Shortcut	Owner	Access
Shortcut to Seats for Sale	View all available boats	[Icon]	Yes	jhanen	stymie
Shortcut to Find Boat to Buy	Select type and price limits	[Icon]	Yes	jhanen	*PUBLIC
Shortcut to My Customer Mailing	Mail customer list	[Icon]	Yes	jhanen	stymie
Shortcut to My Customer Mailing	Mail customer list	[Icon]	Yes	jhanen	*PUBLIC
Shortcut to Put My Customer List in Folder	Store customer list	[Icon]	Yes	jhanen	stymie

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Run a pre-built query or upload

- Example is a Query that is set up to display up to 500 entries

This query could be set up to:

- Be viewed in the browser
- Converted to a spreadsheet format, HTML, plain text....
- Converted to .PDF
- Saved in IFS or Personal Folder

BCOST	BYEAR	BTYPE	BNAME	BFEET	BINTOL
10000000	1940	A	Hangar	20	
10000000	2000	A	Spandau1	72	
10000000	1999	A	MOLSLINEX	300	
10000000	1999	A	Spandau	720	
10000000	1995	P	Kalamoran	200	
2975000	1996	P	Monterey Marina Custom	80	Located in Stuart, FL
1000000	1979	C	Pacific Boat Co Aluminum	80	Located in S. Diego, CA
4500000	1990	S	Merlin's Magic	54	Designed by Dutch naval architect Ernst Van Derbram.
2695000	1989	S	Seafinn 413 Motorsailer Ketch	41	Silver anodised spars by Selden of Sweden. Main and
249000	1944	T	Miki Miki Original Tug	126	Located in Seattle, WA.
1795000	1993	S	Fountainne Pajot Antigua	37	Fiberglass hull and deck with a vacuum bagged core.
179000	1989	S	Naubat 40	40	All hand laminated fiberglass construct layers of mat.
1599000	1981	S	Shannon 50 ketch	50	Walther Shutz design ketch built by Shannon Boat Co, Inc.
149000	1985	S	Brandimayr 48	48	48" B" aluminum extrusion, oval mast and 3/8" galvanized
80000	1974	S	Garden Design Porpoise Ketch	51	The hull is carvel planked teak.
69950	1994	S	Corsair 27	27	Equipped for cruising and racing
69000	1978	S	Morgan 302	38	Has an Airex hull and skeg rudder. Has been rated by Lloyd's
63000	1979	S	Mariner Ketch	40	Full keel and the rudder is keel hung
57900	1990	S	Hunter 33.5	33	The boat has a large wheel steering & spade rudder.
55000	1985	P	Monk Flybridge/Sedan	34	Double planked cedar on oak frames.
27500	1953	S	Bill Garden Schooner	36	The hull is 1/8" carvel cedar planked atop 1 1/4" x 1 1/2" oak frames
23900	1978	P	Carver Santa Cruz	28	Constructed of fiberglass.
19900	1956	P	Monk Bridgedeck Cruiser	35	Built of mahogany, oak, and cedar.
13000	1989	P	Mako Sportfisher	19	Located in Anacortes, WA.

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Example has conditions the end user can set:

1. Type of boat (Power, Sailing, etc)
2. Price limits (lower / upper)

SQL Output

BCOST	BYEAR	BTYPE	BNAME	BFEET	BNT01
23900	1978	P	Carver Santa Cruz	28	-Constructed of fiberglass.
55000	1985	P	Monk Flybridge/Sedan	34	-Double planked cedar on oak frames.

Query brings back only database entries meeting conditions

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- **Save Access for Web requests to a file**
 - Move requests to another system
 - myDBRequests.requests
- **Only requests can be exported**
 - Shortcuts can not be export
- **Connection information is not exported with the request**
 - Same connections may not be available when importing

Request	Description	Action	Shortcut	Owner	Access
Boats for Less Than \$1,000,000				Person	Person
Boats for Sale	View all available boats			Person	Person
Customers				Person	Person
Find a Boat	Dynamic query example			Person	Person
Find Boat to Buy	Select type and price limits			Person	Person
My Customer Mailing	Mail Customer List			Person	Person
Put My Customer List in Folder	Store customer list			Person	Person
Shortcut to Find Boat to Buy	Select type and price limits			Person	PERSON
Shortcut to My Customer Mailing	Mail Customer List			Person	PERSON
Web2Public	Web2 All Boats			Yes	PERSON, PERSON

Export Database Requests

Select requests to export.

Select	Request	Description
<input type="checkbox"/>	Customers	
<input type="checkbox"/>	Boats for Sale	View all available boats
<input type="checkbox"/>	Find Boat to Buy	Select type and price limits
<input type="checkbox"/>	My Customer Mailing	Mail Customer List
<input type="checkbox"/>	Put My Customer List in Folder	Store customer list
<input type="checkbox"/>	Boats for Less Than \$1,000,000	Dynamic query example
<input type="checkbox"/>	Find a Boat	

Export Database Requests **Select All** **Deselect All**

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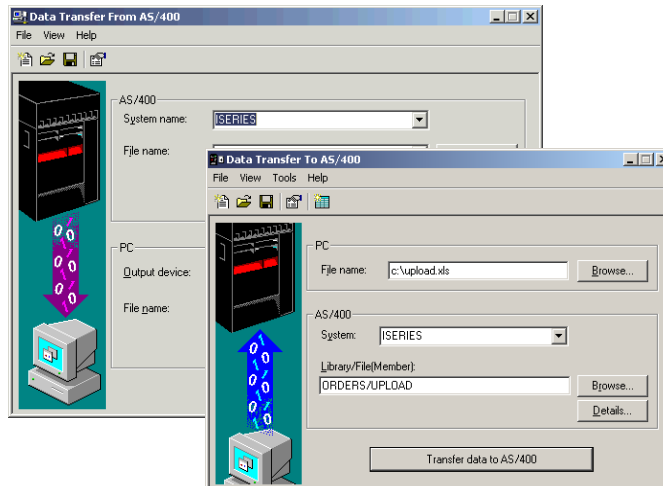


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Importing Access for Windows Data Transfer Requests

Import your existing Access for Windows Data Transfer requests into Access for Web!



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- Don't lose your investment in existing Data Transfer requests
- **Import** them into Access for Web
- The imported transfer request may be run or saved as an Access for Web request
- Then users can run them from their browsers!

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- Bring your existing queries to a browser environment
- Use the **Import Query** tool to bring them into Access for Web
 - IBM Query for i5/OS (5761-QU1)
 - DB2 for i5/OS Query Manager (5761-ST1)

****QMQR and *QRYDFN are the query file types supported***

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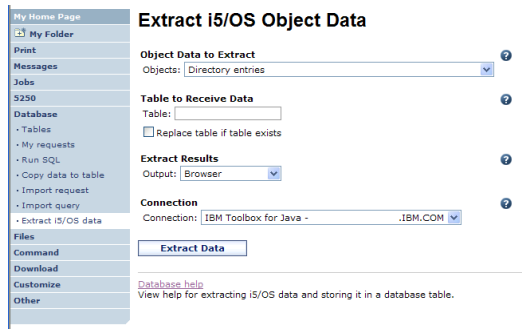
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- Extract IBM i object information into a database table or tables.
- Then use Tables or Run SQL functions to retrieve relevant data.



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Extract IBM i Object Data can be used to retrieve information about IBM i objects and store the results in a database table

- General object information can be retrieved for any IBM i object type.
- Object specific information can also be retrieved for the following object types:
 - Directory entries
 - Messages
 - Software fixes
 - Software products
 - System pool
 - User profiles

▪ **You could easily build a query:**

- To find out what users have used more than 100 MB of storage
- Or you might want to know what users have had more than 2 invalid sign-on attempts in the past three months.

▪ **This very powerful capability lets you look at your IBM i object information in any manner that is of importance to you.**

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My Home Page
My Folder
Print
Messages
Jobs
5250
Database
Tables
My requests
Run SQL
Copy data to table
Import request
Import query
Extract i5/OS data

Connection: IBM Toolbox for Java - .IBM.COM
Table filter: *USRLIBL, BOATS

Page 1 of 11 | Jump to page: 1 | Total: 262

Table	Description	Action
BOATS.BOATS	Available BOATS	[Icons]
BOATS.BOATS1	Available boats by length	[Icons]
BOATS.PCFILES	PC files needed by BOATS WSG Demo	[Icons]
BOATS.QCLSRC		[Icons]
BOATS.QCMDSRC		[Icons]

- Insert
- Update
- Quick View
- Find Record
- Run SQL
- Copy Data to Table

Action ?

[Icons for Insert, Update, Quick View, Find Record, Run SQL, Copy Data to Table]

My Home Page
My Folder
Print
Messages
Jobs
5250
Database
Tables
My requests
Run SQL
Copy data to table
Import request
Import query
Extract i5/OS data
Files
Command
Download
Customize
Other
Related Links:
System i Access for Web
System i Access
System i Navigator
i5/OS Information Center
System i Resource Center

Connection: IBM Toolbox for Java - .IBM.COM
Table filter: *USRLIBL, BOATS

Page 1 of 11 | Jump to page: 1 | Total: 262

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BOATS.QDSSRC		[Icons]
BOATS.QRNCVTLG		[Icons]
BOATS.QRPGLESRC		[Icons]
BOATS.QRPGSRC		[Icons]
QBLDSYS.CBVTBATS	BVT test case file	[Icons]
QBLDSYS.CBVTQRY	BVT test case file	[Icons]
QBLDSYS.CBVTDERI	BVT test case file	[Icons]
QBLDSYS.CBVTDLO	BVT test case file	[Icons]
QBLDSYS.CBVTFORM	BVT test case file	[Icons]
QBLDSYS.CBVTGRPD	BVT test case file	[Icons]
QBLDSYS.CBVTGRPS	BVT test case file	[Icons]
QBLDSYS.CBVTJOB	BVT test case file	[Icons]
QBLDSYS.CBVTJOIN	BVT test case file	[Icons]

Callouts:
- Connection & Table Filter (points to Connection and Table filter text)
- Table Actions (points to the Action column icons)

Used to control the tables displayed in the Tables list

Comma-separated list of

- schemas
- schema filters
- tables
- table filters

Policy	Derived From	Action	Setting
Database access	Shipped default	Use current setting	Allow
Database tab	Shipped default	Use current setting	Allow
Tables	Shipped default	Use current setting	Allow
Maximum table rows	Shipped default	Use current setting	500
Table filter	Profile setting	Use current setting	*USRLIBL;BOATS
Table filter is user preference	Shipped default	Use current setting	Allow
Insert records into table	Shipped default	Use current setting	Allow
Insert record columns	Shipped default	Use current setting	Columns...
Update records in table	Shipped default	Use current setting	Allow
Update record columns	Shipped default	Use current setting	Columns...
Quick view table records	Shipped default	Use current setting	Allow
Maximum quick view rows	Shipped default	Use current setting	1000
Order records by relative record number	Shipped default	Use current setting	No
Find records in table	Shipped default	Use current setting	Allow
Find record columns	Shipped default	Use current setting	Columns...

The % character is used as a wild card character.

*USRLIBL is a special value to identify all tables in the user portion of the library list.

- If you don't want users 'updating', 'inserting' or 'deleting' records,
- then let them use only the **Find Record** function

Action	BTYPE	BNAME	BFEEET	BYEAR	BCOST	BNT01	BNT02	BNT03	BNT04
C		Poole Boat Co Aluminum	80	1979	1000000	-Located in S. Diego, CA	-Twin Detroit diesels.	-Commercial combination dinner cruise	and long range fishing boat, sleeps 33.
P		Monterey Marine Custom	80	1996	2975000	-Located in Stuart, FL	-Monthly payment.	-Fuel: Approximately 2000 gallons	-Water: Approximately 300 gallons

Tables → Update Function



1

Wildcards may be used in the selection

Select Records to Update

Specify column values, to select which records you want to update.

Column	Type	Value	Description
BTYPE	CHAR (1)	<input type="checkbox"/>	P=Powered S=Sailing
BNAME	CHAR (30)	<input type="text"/>	boat name
BFEET	NUMERIC (3,0)	<input type="text"/>	Length in feet
BYEAR	NUMERIC (4,0)	<input type="text"/>	Year built
BCOST	NUMERIC (9,0)	<input type="text"/>	Price in US\$

2

Records to Update

Page 1 of 1 Total: 2

Action	BTYPE	BNAME	BFEET	BYEAR	BCOST	BNT01	BNT02	BNT03	BNT04
<input checked="" type="checkbox"/>	C	Prode Boat Co Aluminum	80	1978	100000	Located in S. Diego, CA	Twin Detroit diesel	and long range fishing boat	33
<input checked="" type="checkbox"/>	P	Honolulu Marine Custom	80	1996	297500	Located in Stuart, FL	Recently payment	Approximately 2000 gallons	Approximately 300 gallons

Page 1 of 1 Total: 2

3

Update Record

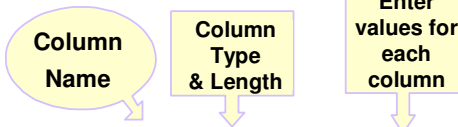
To update the record, change column values and click update Record.

Column	Type	Value	Description
BTYPE	CHAR (1)	<input type="checkbox"/>	P=Powered S=Sailing
BNAME	CHAR (30)	Prode Boat Co Aluminum	boat name
BFEET	NUMERIC (3,0)	80	Length in feet
BYEAR	NUMERIC (4,0)	1978	Year built
BCOST	NUMERIC (9,0)	100000	Price in US\$
BNT01	CHAR (72)	Located in S. Diego, CA	Note 1
BNT02	CHAR (72)	Twin Detroit diesel	Note 2

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Inserting New Records into a Table



Insert Record

To insert a record, specify column values and click Insert Record.

Column	Type	Value	Description
BTYPE	CHAR (1)	<input type="checkbox"/>	P=Powered S=Sailing
BNAME	CHAR (30)	<input type="text"/>	boat name
BFEET	NUMERIC (3,0)	<input type="text"/>	Length in feet
BYEAR	NUMERIC (4,0)	<input type="text"/>	Year built
BCOST	NUMERIC (9,0)	<input type="text"/>	Price in US\$
BNT01	CHAR (72)	<input type="text"/>	Note 1
BNT02	CHAR (72)	<input type="text"/>	Note 2
BNT03	CHAR (72)	<input type="text"/>	Note 3

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▪ **Access for Web Database:**

- Copy client data to IBM i Table
- Run SQL statements
 - Create SQL Query Wizard
- Import Requests and Queries
- Work with IBM i Database Tables
- Extract IBM i OS System Data to a Table
- Preferences and Polices to control function,
 - See Presentation SS17 "What Administrators Need to Know about IBM i Access for Web: Restricting Access and Other Considerations"

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Start your browser and connect to the following web site:

<http://iseriesd.dfw.ibm.com/webaccess/iWAHome> (case sensitive)

<p>User ID = WACUST Password = demo2pwd</p>	<p>This shows the basic look of System i Access for Web as we ship it. You can try various functions -- including working with printer output, creating database requests, etc. Click on the 5250 tab, sign onto the IBM i, then start an RPG application called BOATS and run it.</p>
<p>User ID = BOATADMIN Password = demo2pwd</p>	<p>This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session, or they could have used HATS to run the application. You will also see other links that would let a user work with spoolfile information, work with IFS, run database requests, etc..</p>

Power is performance redefined. See www.ibm.com/power for more information. User profiles on iseriesd.dfw.ibm.com if either one gets disabled.

Monday			
8:00am 9:30am	Monorail A & Monorail B	OPEN LAB: Test Drive IBM i Access for Web	420063
8:00am 9:30am	Monorail A & Monorail B	OPEN LAB: Administrators Get Started with IBM i Access for Web	520027
Tuesday			
9:30am	Magic Kingdom Ballroom 3	Get to the Web Fast with IBM i Access for Web: Including 5250 Browser Access	409136
→ 2:00pm	Magic Kingdom Ballroom 3	Not Just a 'Webulator': IBM i Access for Web Leveraging Print and Database Capabilities	580029
Wednesday			
3:30pm	Safari	What Administrators Need to Know about IBM i Access for Web: Restricting Access & Other Considerations	420016

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Supported File Formats



Supported file formats	Access for Web Database	Access for Windows Data Transfer
▪ Comma Separated Variable	Yes	Yes
▪ Data Interchange Format	Yes	Yes
▪ Extensible Markup Language (XML)	Yes	Yes
▪ Hyper Text Markup Language (HTML) (on downloads)	Yes	Yes
▪ No conversion		
▪ ASCII Text	No	Yes
▪ Text – Tab delimited	Yes	Yes
▪ Text - Delimited	Yes	Yes
▪ Basic Random	Yes	No
▪ Basic Sequential	No	Yes
▪ DOS Random	No	Yes
▪ DOS Random Type 2	No	Yes
	No	Yes

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Supported File Formats (continued)



Supported file formats	Access for Web Database	Access for Windows Data Transfer
▪ Preview (on downloads)	Yes	Yes
▪ Portable Document Format (PDF) (on downloads)	Yes	No
▪ Scalable Vector Graphics Chart	Yes	No
▪ Microsoft Excel Version 3	Yes	Yes
▪ Microsoft Excel Version 4	Yes	Yes
▪ Microsoft Excel Version 5	No	Yes
▪ Microsoft Excel Version 7	No	Yes
▪ Microsoft Excel Version 8	No	Yes
▪ Microsoft Excel XML	Yes	Yes
▪ Lotus 123	No	Yes
▪ Lotus 123 Version 1	Yes	No
▪ Lotus 123 Version 4	No	Yes
▪ Lotus 123 Version 9	No	Yes

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Comparison of Database Capabilities

Feature / Function	Access for Windows	Access for Web	Access for Linux
ODBC driver	Yes	No	Yes
OLE DB provider	Yes	No	No
.NET provider	Yes	No	No
From i5/OS, start programs/commands on PC			
– Incoming Remote Command	Yes	No	No
GUI to find, add, update, delete selected records in an i5/OS database Table	No	Yes	No
GUI to convert query results to .PDF format	No	Yes	No
GUI to convert query results to a chart	No	Yes	No
GUI to e-mail query results in one step	No	Yes	No
Wizard to import Query/400 SQL requests	No	Yes	No
Wizard to import Query Manager SQL requests	No	Yes	No
Wizard to import System i Access for Windows Data Transfer requests	No	Yes	No
Programming Support			
– ActiveX automation Objects	Yes	No	No
– Limited support using java.net.URL and the documented URL Interfaces	No	Yes	No

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Compare Data Transfer & Access for Web Database

Feature / Function	Access for Windows	Access for Web
▪ All SQL Statements Supported	Yes	Yes
▪ Wizards to build SELECT statements and convert to PC format	Yes	Yes
▪ Can build SELECT statements with group, having, and join support	Yes	Yes
▪ Can create dynamic queries (prompted for input at time of running)	No	Yes
▪ Access to members other than the default member	Yes	No
▪ Wizards to upload PC data to iSeries DB2	Yes	Yes
▪ Support for Source Physical Files	Yes (sequence and data generated on uploads is not returned by default)	No (treated the same as other Table Values)
▪ Upload data directly from Excel	Yes	No
▪ Excel dates/times handled as dates/times	Yes	Yes
▪ Can run predefined saved requests	Yes	Yes
▪ Schedule requests to run silently	Yes	No
▪ Can Share requests amongst users	No, put on shared drive	Yes, via Shortcuts
▪ Can run multiple requests simultaneously (batch)	Yes (RTOPCB, RFROMPCB)	No
▪ Asynchronous Processing (ie, control returned before request completes)	No	Yes (except for Browser option)

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Access for Web	Access for Windows
Database Requests From i5/OS 1. Requests are saved by User name, extension types are not displayed 2. An "Import" Facility (*) can be used to convert System i Access for Windows Data Transfer requests to System i Access for Web requests	Data Transfer From System i 1. .DTF - New request type used by System i Access for Windows 2. .TTO - Request type used in 5763-XD1 and DOS Extended clients 3. .DT - Request type used in Windows 3.1 client 4. .RTO - Rumba transfer request file
Database Requests To i5/OS 1. Requests are saved by User name, extension types are not displayed 2. An "Import" Facility (*) can be used to convert System i Access for Windows Data Transfer requests to System i Access for Web requests	Data Transfer To System i 1. .DTT - New request type used in System i Access for Windows 2. .TFR - Request type used in 5763-XD1 and DOS Extended clients 3. .DT - Request type used in Windows 3.1 client 4. .RTO - Rumba transfer request file

(*) RTO files are not supported by Import Facility in System i Access for Web

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What is significance of various Microsoft Excel formats supported?

1. Microsoft Excel XML - is the newest type supported by Excel and Word, and it is a defined format that is easy to parse programmatically.
2. Access for Web, the Microsoft Excel XML file type is the only "native" Excel file type that is supported for working with very large amounts of rows.
3. Access for Windows enables you to work with large amounts of rows using BIFF5, BIFF7, BIFF8 file types.

Supported file formats	Access for Web Database	Access for Windows Data Transfer
▪ Microsoft Excel Version 3	Yes	Yes
▪ Microsoft Excel Version 4	Yes	Yes
▪ Microsoft Excel Version 5	No	Yes
▪ Microsoft Excel Version 7	No	Yes
▪ Microsoft Excel Version 8	No	Yes
▪ Microsoft Excel XML	Yes	Yes

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Access for Windows

Data Transfer

- Runs natively on Windows; can also run on a Windows web server
- Provides an SQL-like interface to allow full file SELECT or customized queries including joins, sorting, and record grouping. Can run advanced queries.
- Transfer source physical files and data physical files to PC file types
- Transfer PC file types to the source and data physical files on System i.
- Transfers may be run interactively, in batch mode, and programmatically
- Can run requests by clicking an icon
- Can schedule data transfers
- Has Excel Add-ins
- Has ActiveX Automation Objects

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Access for Web Database

- Runs on an IBM i OS web server; sends HTML to browser
- You can work directly with Tables, including Find, Insert, Updating, Delete, and Add. You may also view the entire table.
- Can run any SQL statement
- Supports both Dynamic and Static queries
- SQL Wizard helps you build SELECT statements.
- Can email results in many data formats
- Can convert results to PDF
- Can convert results to SVG charts
- Can create Requests and give to other users to run
- Can Import Client Access Data Transfer requests; and IBM Query for i5/OS (5761-QU1) and DB2 Query Manager SQL requests.

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