2008 System i Connection Conference



# 24D Database Access with System i Access for Web

Linda Hirsch LLHIRSCH@us.ibm.com http://www.ibm.com/systems/i/software/access/web/

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#### **System i Access Sessions**

Windows:

• System i Access for Windows: What's New?

Web:

- Get to the Web Fast with System i Access for Web V6R1 (Overview)
- Run 5250 Through a Browser with System i Access for Web
- Database Access with System i Access for Web
- System i Access for Web: Setup and Configuration
- System I Access for Web: What an Administrator Needs to Know

Functional enhancements can be submitted via the FITS system. The url is: <u>http://www.ibm.com/systems/i/software/access/</u>

And click on link "Request for Design Change"



### Try out Access for Web for yourself!

Start your browser and connect to the following web site: http://iseriesd.dfw.ibm.com/webaccess/iWAHome (case sensitive)

User ID = WUSER	This shows the basic look of 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,
Password = DEMO2PWD	sign onto the iSeries, then start an RPG application called BOATS and run it.
User ID = BOATADMIN Password = DEMO2PWD	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 WebFacing 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



# What is System i Access for Web?

End users can leverage business information, applications, and resources across an enterprise by extending i5/OS resources to the workstation desktop through a web browser

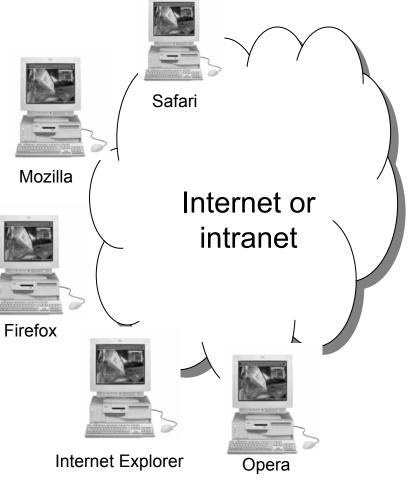
#### **Provides access to i5/OS resources**

#### through a browser

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

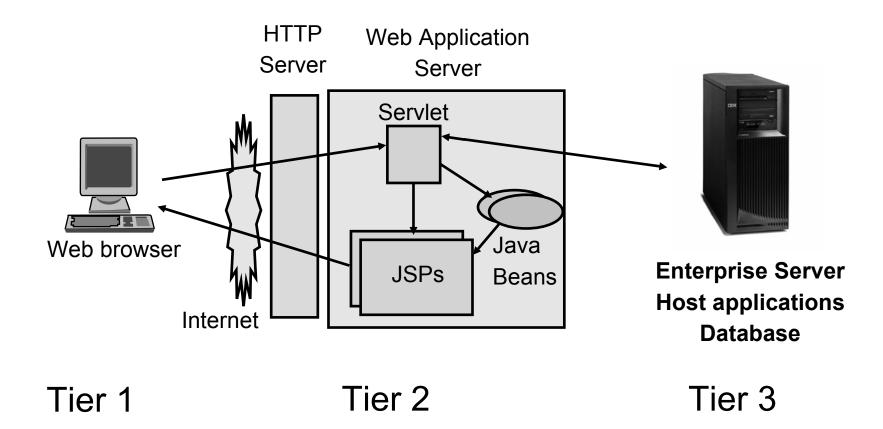
#### It has the following advantages:

- Runs on i5/OS
- 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





### Web application environment





# System i Access for Web – Database Functions

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

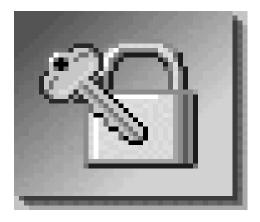
- Import queries generated by Query for i5/OS and DB2 for i5/OS Query Manager.
- Imported queries can be saved into System i Access for Web database requests.
- Run and edit converted queries just like other System i Access for Web SQL requests.

#### Extract i5/0S data

Extract i5/OS object information into a database table.



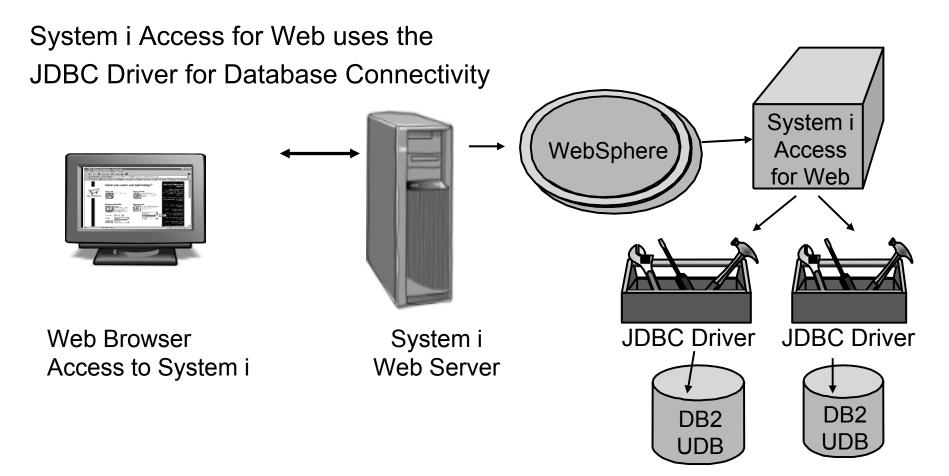
# Security and Administration





#### **Database Overview**

System i Access for Web





## Security – Access to DB2 for i5/OS

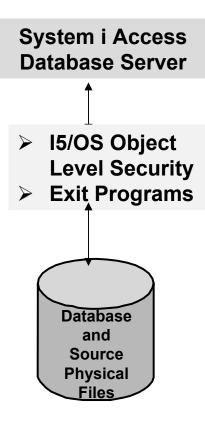
All database requests in System i Access for Web, System i Access for Windows, and System i Access for Linux flow through the System i Access Database Server

All objects on the system, including SQL objects, are managed by the system security function

- Most IBM SQL operations go through the iSeries Database DB Host Server and use the QIBM\_QZDA server exit point.
- This includes Data Transfer, ODBC, .NET, parts of OLE DB, and some functions of the Toolbox (JDBC including Access for Web).

– See:

http://publib.boulder.ibm.com/iseries/v 5r2/ic2924/index.htm?info/sqlp/rbafym st324.htm



#### **Exit Programs**

- Exit programs written for the QIBM\_QZDA NDB, ROI, and SQL exit points may help to restrict certain users from accessing specific files.
- Configured with WRKREGINF on i5/OS
- Given the SQL statement sent from the client application. Statements may be rejected by the user exit program
- May be written in a variety of host languages

### **Policies**

- Control Access to Database functions by restricting access to System i Access for Web functions.
- Restrict by specific user, groups of users, all users
- Requires \*SECADM authority to use
  - a non-SECADM user can be granted the rights to administer System i Access for Web

My Home Page	Polic	ies		
🗋 My Folder				
Print	Profile: ]	HANSEN		
Messages				
Jobs	Action	Category	Access 🕜	Description
5250	1	5250	Allowed	5250 user interface custom settings.
Database	I	Command	Allowed	Run batch command custom settings.
Files	1	Customize	Allowed	Preferences and policy administration custom settings.
Command	1	Database	Allowed	Database tables, requests, and run SQL custom settings.
Download	1	Database connections	Allowed	Create and edit database connection definitions.
Customize	1	Download	Allowed	Download packages custom settings.
Preferences	1	Files	Allowed	Integrated file system and file share custom settings.
Policies	1	General	Allowed	Page layout, language and character set custom settings.
<ul> <li>Settings</li> <li>Transfer configuration</li> </ul>	1	Jobs	Allowed	Work with jobs custom settings.
Other	1	Mail	Allowed	Send mail custom settings.
other	1	Messages	Allowed	Display messages, send messages, and message queue custom settings.
	1	My Folder	Allowed	My Folder custom settings.
Related Links:	1	Print	Allowed	Printer output, printers, printer shares and output queue custom settings.
<ul> <li>System i Access for Web</li> </ul>	1	Sametime	Allowed	Lotus Sametime custom settings.
• System i Access • System i Navigator • i5/OS Information	/	Other	Allowed	Change password and other miscellaneous custom settings.

#### Change category access

Change category access policies for this profile.

Center System i Resource

Center



# All the Policies that can be set for 'Database' functions

#### **Edit Policies - Database**

Profile: JHANSEN

Policy	Derived From 🚱	Action 😧	Setting					
Database access	Shipped default	Use current setting	V Allow V	0				
Database tab	Shipped default	Use current setting	Y Show Y	0				
Tables	Shipped default	Use current setting	✓ Allow ✓	0				
Maximum table rows	Shipped default	Use current setting	✓ 500 ✓	0				
Table filter	Shipped default	Use current setting	V *USRLIBL	0				
Table filter is user preference	Shipped default	Use current setting	V Allow V	0				
Insert records into table	Shipped default	Use current setting	V Allow V	0				
Insert record columns	Shipped default	Use current setting	V Columns	0				
Update records in table	Shipped default	Use current setting	✓ Allow ✓	Ø				
Update record columns	Shipped default	Use current setting	V Columns	0				
Quick view table records	Shipped default	Use current setting	✓ Allow ✓	0				
Maximum quick view rows	Shipped default	Use current setting	▼ 1000 ▼	0				
Order records by relative record number	Shipped default	Use current setting	▼ No ▼	0				
Find records in table	Shipped default	Use current setting	✓ Allow ✓	Run SQL requests	Shipped default	Use current setting 🛛 👻	Allow 👻	Ø
Find record columns	Shipped default	Use current setting	✓ Columns	Run statements other than query	Shipped default	Use current setting 👻	Allow 🗸	0
Requests	Shipped default	Use current setting	✓ Allow ✓	Copy data to table	Shipped default	Use current setting 🛛 👻	Allow 🛩	0
Run request	Shipped default	Use current setting	✓ Allow ✓	Create new tables	Shipped default	Use current setting 🛛 👻	Allow 🛩	0
Copy request	Shipped default	Use current setting	✓ Allow ✓	Append data to tables	Shipped default	Use current setting 🛛 🗸	Allow 👻	0
Delete request	Shipped default	Use current setting	✓ Allow ✓	Replace data in tables	Shipped default	Use current setting 🛛 🗸	Allow 👻	0
Rename request	Shipped default	Use current setting	✓ Allow ✓	Import request	Shipped default	Use current setting 🛛 🗸	Allow 👻	0
Create automated task	Shipped default	Use current setting	✓ Allow ✓	Import query	Shipped default	Use current setting 🛛 🗸	Allow 👻	0
Transfer request	Shipped default	Use current setting	V Allow V	Extract i5/OS object data	Shipped default	Use current setting 🛛 👻	Allow 👻	0
Edit request	Shipped default	Use current setting	✓ Allow ✓	Default connection	Shipped default	Use current setting 🛛 👻	IBM Toolbox for Java -	.ibm.com 💌 🚱
Save request	Shipped default	Use current setting	V Allow V	Default connection is user	Shipped default	Use current setting 🛛 👻	Allow 🗸	0
Import requests	Shipped default	Use current setting	✓ Allow ✓	preference Add IBM Toolbox for Java	Shipped default	Use current setting 🗸	Allow ¥	0
Export requests	Shipped default	Use current setting	✓ Allow ✓	to connection list		Use current setting	Allow	U
List request shortcuts	Shipped default	Use current setting	✓ Allow ✓	Save Cancel A	pply			
Create request shortcut	Shipped default	Use current setting	✓ Allow ✓					
Copy request shortcut	Shipped default	Use current setting	✓ Allow ✓	0				
Delete request shortcut	Shipped default	Use current setting	V Allow V	0				
Rename request shortcut	Shipped default	Use current setting	V Allow V	0				
Request list columns	Shipped default	Use current setting	V Columns	0				





# How to work with the database features



#### When using 'Database' functions

You can connect to multiple systems and databases with System i Access for Web

- Simply add other database connections to your list
  - Easiest way to do this is to copy the default one, then modify it and save it.
  - It will then appear as an option in the Connection pulldown
- Default is IBM Toolbox for Java and is for DB2 for i5/OS, but you could use other JDBC drivers to connect to other systems

My Home Page	Add Database Connection	
🗋 My Folder		
Print	Profile: JHANSEN	
Messages		
Jobs	Connection:	0
5250	Driver class:	0
Database	JDBC URL:	0
Files		•
Command	Set as default connection	
Download	Add Connection	
Customize	Add connection	

My Home Page	Copy Data to Table
Print	File to Copy
Messages	File: Browse
Jobs	
5250	File type: Comma Separated Value (.csv) 💟 Settings
Database	
• Tables	Table to Receive Data 🛛 🚱
• My requests	Table:
• Run SQL	Action: Replace data if table exists 🗸
<ul> <li>Copy data to table</li> </ul>	
<ul> <li>Import request</li> </ul>	Connection
<ul> <li>Import query</li> </ul>	Connection: IBM Toolbox for Java
• Extract i5/OS data	Connection: IBM Toolbox for JavaIBM.COM
Files	
Command	Copy Data to Table Save Request



# Database – use WAS data sources

WAS data sources are pooled and managed by WAS and should scale better than our original database connections

Two types of connection definitions are supported:

- Driver manager connections require a driver class and a JDBC URL
  - Specify the JDBC driver class name to use for this database connection, ie, the IBM Toolbox for Java JDBC Driver
- Data source connections require a data source name.
  - Specify the JNDI name of the data source to use for this connection. Must have a component-managed authentication alias set if it is used in a single sign-on environment.

My Home Page	Edit	Policie	s - Da	atabase Co	nne	ctions	
🗋 My Folder	Lait		5 50				
Print	Profile: 2	JHANSEN					
Messages							
Jobs	D'or a dire s	connection: derived from:	1011100	lbox for Java -		.IBM.COM	
5250	Delault	ienved from:	Shipped	derault			
Database	Φ						
Files		Page 1 of 1		Jump to page: 1	1	Total: 1	
Command	Action	-		Connection 🗘			Derived From 🗘
Download	45	Connection:	IBM Tool	box for Java -		.IBM.COM	Shipped default
Customize		Driver class:	com.ibm.	as400.access.AS400J	DBCDriv	/er	
Preferences		JDBC URL:	jdbc:as40	00://	.IBM.C	COM;prompt=false;	
Policies			100 000				
<ul> <li>Settings</li> </ul>	KK	Page 1 of 1		Jump to page: 1	Ċ	Total: 1	
<ul> <li>Transfer configuration</li> </ul>							
Other							
		base connecti					
	Create a	new database	e connectio	on.			



Data Source connections enable many different applications running under WebSphere to use the same data source connection



# For the 'typical' end user

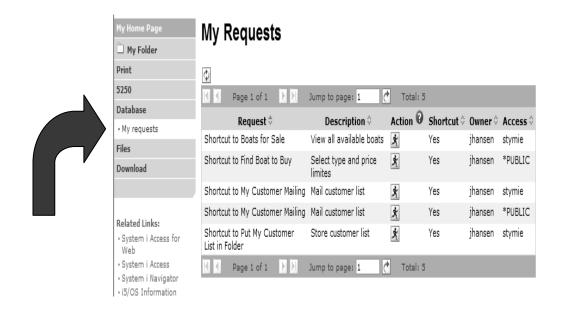




#### **My Requests**

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

- Selected Users are then given access to run these selected data requests
- They're only given access to run those necessary to perform their job



#### These are called Shortcuts



## **Static Requests**

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

My Home Page	SQL O	utput				
🗋 My Folder						
Print	Ф					
Messages		ge 1 of 1		Jump to page: 1	🔿 Tota	al: 24
Jobs	BCOST 🗘	- BYEAR 🗘	втуре 🗘	BNAME \$	BFEET 🗘	BNT01 🗘
5250	10000000	1940	A	Hangar	20	
Database	10000000	2000	A	Spandau1	72	
Tables	10000000	1999	A	MOLSLINIEN	300	
My requests	10000000	1999	A	Spandau	720	
Run SQL	10000000	1995	P	Katemeran	200	
Copy data to table	2975000	1996	Ρ	Monterey Marine Custom	80	-Located in Stuart, FL
Import request Import query	1000000	1979	С	Poole Boat Co Aluminum	80	-Located in S. Diego, CA
Extract i5/OS data	450000	1990	S	Merlin's Magic	54	-Designed by Dutch naval architect Ernst Van Derlaan.
Command	269500	1989	s	Seafinn 411 Motorsailer Ketch	41	-Silver anodised spars by Selden of Sweden. Main and
Download	249000	1944	Т	Miki Miki Original Tug	126	-Located in Seattle, WA.
Customize Other	179500	1993	S	Fountaine Pajot Antigua	37	-Fiberglass hull and deck with a vacuum bagged core.
other	179000	1989	S	Nauticat 40	40	-All hand laminated fiberglass construct layers of mat
Related Links:	159900	1981	S	Shannon 50 ketch	50	-Walter Shulz design ketch built by Shannon Boat Co. Inc.
System i Access for Web System i Access	149000	1985	S	Brandlmayr 48	48	-An 8" aluminum extrusion, oval mast and 3/8" galvanized
System i Navigator i5/OS Information	80000	1974	S	Garden Design Porpoise Ketch	51	-The hull is carvel planked teak.
Center	69950	1994	S	Corsair 27	27	-Equipped for cruising and racing
System i Resource Center	69000	1978	s	Morgan 382 Race/Cruise Sloop	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 a spade rudder.
	55000	1985	Ρ	Monk Flybridge/Sedan	34	-Double planked cedar on oak frames.
	27500	1953	S	Bill Garden Schooner	36	-The hull is 1/8' caravel cedar planked atop 1 1/4" x 1 1/2" oak frames
	23900	1978	P	Carver Santa Cruz	28	-Constructed of fiberglass.
	19900	1956	Ρ	Monk Bridgedeck Cruiser	36	-Built of mahogany, oak, and cedar.
	13000	1989	P	Mako Sportfisher	19	-Located in Anacortes, WA.
	M Pa	ge 1 of 1		Jump to page: 1	👌 Tota	al: 24



### **Dynamic Query**

Example has conditions the end user can set:

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

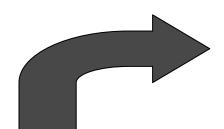
Query brings back only database entries meeting conditions

My Home Page	Find Boat
🗋 My Folder	
Print	Select Boat Type
Messages	P 💙
Jobs	A n US\$ greater than or equal to: 20000
5250	P US\$ less than or equal to: 500000
Database	S S
Tables	OK Cancel
My requests	
Bue COL	

My Home Page	SQL Output
Print	$\langle \phi \rangle$
Messages	✓ Page 1 of 1 ▶ ▶ Jump to page: 1
Jobs	BCOST ◊ BYEAR ◊ BTYPE ◊ BNAME ◊ BFEET ◊ BNT01 ◊
5250	23900 1978 P Carver Santa Cruz 28 -Constructed of fiberglass.
Database	55000 1985 P Monk Flybridge/Sedan 34 -Double planked cedar on oak frames.
• Tables	🖌 🖌 Page 1 of 1 🕨 🕅 Jump to page: 1 🕐 Total: 2
<ul> <li>My requests</li> </ul>	
• Run SQL	



#### **Upload PC data to DB2 for i5/OS**









## Copying Data to DB2 for i5/OS

Copy data to table function allows you to copy PC data into a DB2 for i5/OS table

#### Specify:

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

My Home Page	Copy Data to Table
🗋 My Folder	copy Data to Table
Print	File to Copy
Messages	File: Browse
Jobs	
5250	File type: Comma Separated Value (.csv) 💉 Settings
Database	
• Tables	Table to Receive Data 🛛 🚱
• My requests	Table:
• Run SQL	Action: Replace data if table exists 🗸
<ul> <li>Copy data to table</li> </ul>	
• Import request	Connection
• Import query	Connection: IBM Toolbox for JavaIBM.COM
• Extract i5/OS data	
Files	
Command	Copy Data to Table Save Request
Download	
Customize	
Other	Database help View help for copying file data to a database table.



#### **Creating a new table**

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 System i Access for Web

My Home Page	Copy Data to Table
🗋 My Folder	
Print	Table JHANSEN.BOATS does not exist.
Messages	
Jobs	Create options
5250	View or change column definitions before creating table
Database	Create table using the source file's column definitions
• Tables	
<ul> <li>My requests</li> </ul>	OK Cancel
• Run SQL	
<ul> <li>Copy data to table</li> </ul>	<u>Database help</u>
<ul> <li>Import request</li> </ul>	View help for copying file data to a database table.
<ul> <li>Import query</li> </ul>	
• Extract i5/OS data	
Files	
Command	
Download	
Customize	
Other	



# Creating a new table

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 Folder							
Print			fore creating the table is r	ecommend	ded. You can ch	ange any o	f the column definition 🛛 🔞
Messages	attributes b	efore clicking Creat	e Table.				
Jobs			-				
5250	Column	Description	Туре		Length	Scale	Sample Data
Database	BTYPE		CHAR	*	1	0	Т
• Tables	BNAME		CHAR	*	29	0	Miki Miki Original Tug
My requests	BFEET		NUMERIC 🗸	;	3	0	126
Run SQL     Copy data to table	BYEAR		NUMERIC V		4	0	1944
Import request	BCOST			-	9		249000
Import query	-				-		
• Extract i5/OS data	BNT01		CHAR	*	71	0	-Located in Seattle, WA.
Files	BNT02		CHAR	*	66	0	-The "FLORENCE FILBERG" is an all-wood, single deck
Command				raised forward			
Download	BNT03		CHAR	*	68	0	twin oil screw Miki class tug with sharp stem, molded hull
Customize							and
Other	BNT04		CHAR	*	64	0	elliptical stern. Decks have a
							pronounced sheer forward and the
Related Links:	BNT05		CHAR	*	69	0	deckhouse is located
<ul> <li>System i Access for</li> </ul>							amidship with tow winch and related gear
Web • System i Access	BNT06		CHAR	*	72	0	60kw generators.
<ul> <li>System i Navigator</li> </ul>	BNT07						-
<ul> <li>i5/OS Information</li> <li>Center</li> </ul>			CHAR		72	0	- 7/91 survey says,
• System i Resource	BNT08		CHAR	*	70	0	"As a motor yacht, she is massively stronger than any
Center							conventional
	BNT09		CHAR	~	70	0	yacht requirements and, therefore, with continued
							upgrading and
	BNT10		CHAR	*	63	0	proper maintenance, the
							vessel should exceed its longevity as a
	BNT11		CHAR	*	70	0	working vessel."
	BNT12		CHAR	~	62	0	
	BNT13						
			CHAR		55	0	
	BNT14		CHAR	*	52	0	
	BNT15		CHAR	*	49	0	
	BHTML		CHAR	*	12	0	MIKIMIKI.jpg
	BHTM1		CHAR	~	0	0	
	внтм2		CHAR	*		0	



### Query DB2 for i5/OS



## Run SQL

The Run SQL function allows you to type in a freeform 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 (V6R1)
  - ...

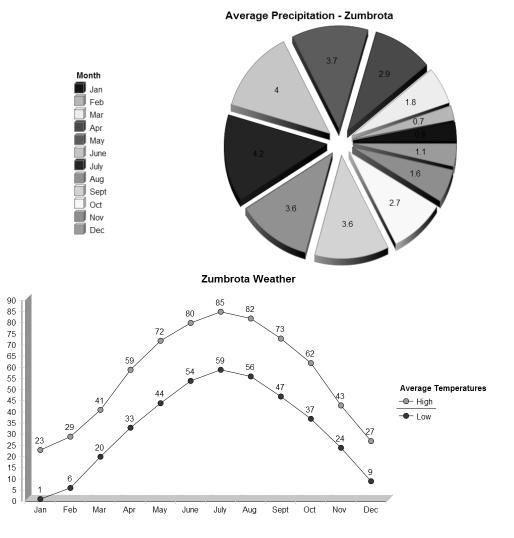
#### Run SQL

SQL Statem	ient		0
SELECT		~	
FROM BOATS.BO	ATS		
		SQL Wizard	
SQL Output			0
Type:	Preview	✓ Settings	
Destination:	Browser 💙	Settings	
Format Date: 3/2/0	8		0
Time: 7:36:	44 PM 💌		
Connection			0
Connection:	IBM Toolbox for Java -	.IBM.COM 💙	
Run SOL	Save Request	1	



## SQL Output Type Enhancements (V6R1)

- New 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)





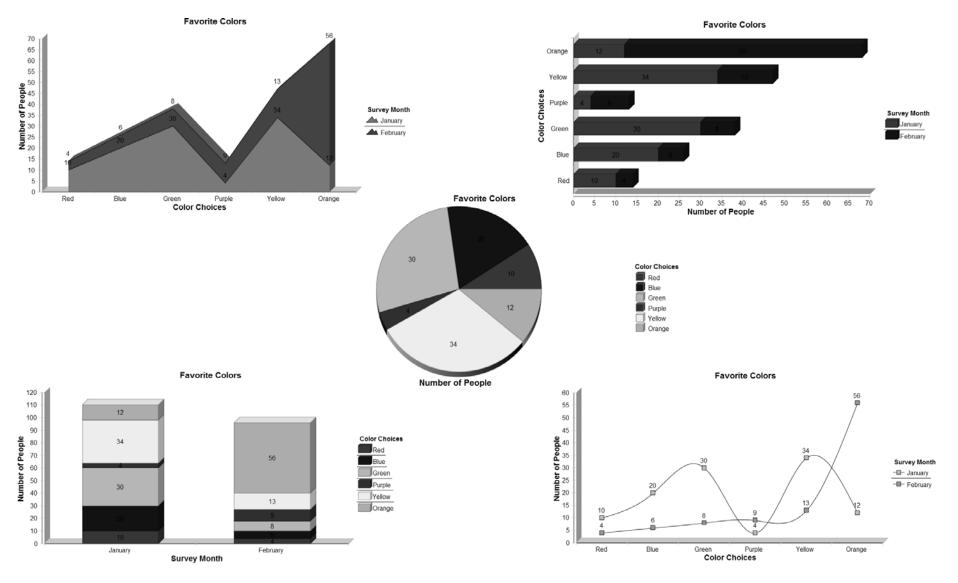
## **Chart Settings**

- 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

	-	
My Home Page	Scalable Vector Graphics Chat	art Settings
🗄 My Folder		•
Print	Chart	0
Messages	Title:	
Jobs	Type: Bar V Settings	
5250	Type: Bar V Settings	
Database	Height: 500 pixels	
• Tables	Width: 1000 pixels	
• My requests	Chart by: Columns 💙	
• Run SQL		
<ul> <li>Copy data to table</li> </ul>	Display with depth	
Import request	Show value labels	
Import query	Enable interactivity	
• Extract i5/OS data		
Files	Legend	
Command	Title:	0
Download	Location: Right 🗸	•
Customize		
Other	Colors	0
	The second	•
Related Links:		
System i Access for		
Web		
<ul> <li>System i Access</li> <li>System i Navigator</li> </ul>		
<ul> <li>i5/OS Information</li> </ul>		
· System i Resource		
Center		
	Color Order	
	Color Order	
		0
	General	0
	Supplemental character set: None 👻	
	OK Cancel	



#### **Example Charts**



© 2008 IBM Corporation

# The SQL Wizard

The SQL Wizard helps you generate a SELECT statement

V6R1 includes support for joining tables

My Home Page	SQL Wizard
🗋 My Folder	
Print	SELECT
Messages	*
Jobs	FROM
5250	
Database	
• Tables	Welcome
<ul> <li>My requests</li> </ul>	weicome
• Run SQL	
<ul> <li>Copy data to table</li> </ul>	This wizard steps you through creating an SQL select statement.
<ul> <li>Import request</li> </ul>	
• Import query	
• Extract i5/OS data	Next Cancel
Files	Next
Command	
Download	
Customize	
Other	



# Identify the DB2 for i5/OS database table

Fi

Tab

Max

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

My Home Page	SQL Wizard
🗋 My Folder	
Print	SELECT
Messages	*
Jobs	FROM
5250	
Database	
• Tables	Table
My requests	Table
• Run SQL	<b>O</b> with a table source in the formation between table
Copy data to table	Specify a table name in the format: schema.table To specify more than one table, separate each table name with a comma.
Import request	
Import query	Find
• Extract i5/OS data	
Files	Back Next Cancel
Command	
ind Table ble filter: *USRLIBL, boats aximum tables to return: 500 v	My Home Page Find Table
Find Now Cancel	Table filter: *USRLIBL, boats
Find Now Cancer	Messages Maximum tables to return: 500 V
	Jobs
	5250 Select one or more tables, click OK. Database To select multiple tables, hold the Ctrl key while clicking the table names.
	Database To select multiple tables, hold the Ctrl key while clicking the table names. • Tables
	Tables:     My requests
	BOATS.BOATS A Refresh
	Copy data to table     BOATS.BOATS1
	BOATS.QCLSRC
	Import query     BOATS.QCMDSRC     BOATS.QDDSSRC
	Extrart i5/OS data BOATS.QRNCVTLG
	Files BOATS.QRPGLESRC
	Command QBLDSYS.CBVTBATS QBLDSYS.CBVTCQRY
	Download QBLDSYS.CBVTDERI
	Customize QBLDSYS.CBVTDLO QBLDSYS.CBVTFORM
	Other QBLDSYS.CBVTGRPD

ок

Cancel



## **Joining Multiple Tables**

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

My Home Page My Folder Print Messages Jobs 5250	Find Table Table filter: Maximum tables to return: 500 Select one or more tables, click OK.	• System i Access • System i Navigator • i5/OS Information	CROSS       IIII+IIII         Return a result table where each row from the first table is combined with each row from the second table.         Next
Database	To select multiple tables, hold the Ctrl key while clicking the table names.		
• Tables	Tables:		
My requests	QIWS.QCUSTCDT Refresh	My Home Page	Join Condition
• Run SQL		🗄 My Folder	
<ul> <li>Copy data to table</li> </ul>		Print	Type: LEFT OUTER
Import request		Messages	Type: LEFT OUTER <b>3</b> First table: QIWS.QCUSTCDT (T1)
Import query		Jobs	Second table: QIWS.QMENUSRC (T2)
• Extract i5/OS data	•	5250	
Files		Database	Type > First table > Second table > [Condition]
Command		• Tables	To add a condition to the select statement, click Add New Condition. To continue, click Next.
Download		My requests	To add a condition to the select statement, click Add New Condition. To continue, click Next.
Customize		• Run SQL	Add New Condition
Other		Copy data to table	
	OK Cancel	Import request	Back Cancel

🗄 My Folder Print

#### Join Type

The following join types are available for the selected tables. Select a join type.

Return rows from each table having matching values for the join condition. $2$
Seft outer     Set at a set at
Return rows from each table having matching values for the join condition. Also return one row for each row in the
first table that does not have a match in the second table.
○ RIGHT OUTER 🛛 🗄 + 🖡 + 🖡 + 🖡 = = = = = = = = = = = = = = = = = =
Return rows from each table having matching values for the join condition. Also return one row for each row in the
second table that does not have a match in the first table.
Return rows from the first table that do not have a match in the second table for the join condition.
ORIGHT EXCEPTION
Return rows from the second table that do not have a match in the first table for the join condition.
Return a result table where each row from the first table is combined with each row from the second table.
Next Cancel
Join Condition
Type: LEFT OUTER 2
First table: QIWS.QCUSTCDT (T1)
Second table: QIWS.QMENUSRC (T2)
Type > First table > Forcend table > [Condition]



### **Select your Output Columns**

#### Step 2:

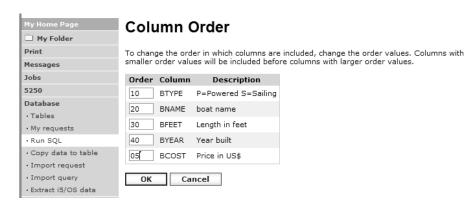
#### Choose columns

- 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

	SQL Wizard			
🗋 My Folder	ode meard			
Print	SELECT			
Messages	* FROM			
Jobs	"BOATS"."BOATS"			
5250				
Database				
• Tables				
<ul> <li>My requests</li> </ul>	Columns			
Run SQL				
Copy data to table     Import request	Select which columns to include. If r	no columns are select	ed, all columns are inc	luded.
	Select which columns to include. If r	no columns are select Heading	ed, all columns are inc	luded.
Import request			ed, all columns are inc	luded.
• Import request • Import query • Extract i5/OS data	Column Description	Heading		duded.
Import request     Import query     Extract i5/OS data Files Command	Column         Description           ✓ BTYPE         P=Powered S=Sailing           ✓ BNAME         boat name	Heading Column name Column name	× ×	luded.
Import request     Import query     Extract i5/OS data Files Command	Column     Description       Ø BTYPE     P=Powered S=Sailing       Ø BNAME     boat name       Ø BFEET     Length in feet	Heading Column name Column name Column name	× ×	luded.
Import request     Import query	Column         Description           ✓ BTYPE         P=Powered S=Sailing           ✓ BNAME         boat name	Heading Column name Column name	V V V V	duded.
Import request     Import query     Extract i5/OS data Files Command Download Customize	Column     Description       Ø BTYPE     P=Powered S=Sailing       Ø BNAME     boat name       Ø BFEET     Length in feet	Heading Column name Column name Column name	× ×	luded.
Import request     Import query     Extract i5/OS data Files Command Download	Column     Description       Ø BTYPE     P=Powered S=Sailing       Ø BNAME     boat name       Ø BFEET     Length in feet       Ø BYEAR     Year built	Heading Column name Column name Column name	V V V V	luded.
Import request     Import query     Extract i5/OS data Files Command Download Customize	Column     Description       Y BTYPE     P=Powered S=Sailing       Y BNAME     boat name       Y BFEET     Length in feet       Y BYEAR     Year built       Y BCOST     Price in US\$	Heading Column name Column name Column name Column name	V V V V	luded.

BNT04 Note 4

System i Access



Column name



# **Specify Conditions**

#### 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

My Home Page	SQL Wizard
My Folder	
Print	SELECT
Messages	"BCOST", "BTYPE", "BNAME", "BFEET", "BYEAR"
Jobs	FROM "BOATS"."BOATS"
5250	
Database	♀ ▦ ⊞+⊞ ◙ キキ
• Tables	
• My requests	Condition
• Run SQL	
<ul> <li>Copy data to table</li> </ul>	To add a condition, click Add New Condition. To continue, click Next.
• Import request	
<ul> <li>Import query</li> </ul>	Add New Condition
• Extract i5/OS data	
Files	Back Next Finish Cancel
Command	

1				
My Home Page	Condi	tion Co	lumn	
D My Folder				
Print	Select a column.			
Messages	Column Type Description			
Jobs	column	Type	Description	
5250	○ BTYPE	CHAR(1)	P=Powered S=Sailing	
Database	O BNAME	CHAR(30)	boat name	
Tables	O BFEET	NUMERIC(3)	Length in feet	
	OBYEAR	NUMERIC(4)	Year built	
Run SQL	~			
Copy data to table	BCOST	NUMERIC(9)	Price in US\$	
Import request	O BNT01	CHAR(72)	Note 1	
Import query	O BNT02	CHAR(72)	Note 2	
Extract i5/OS data		. ,		
Files	O BNT03	CHAR(72)	Note 3	
	My Folder  Print  Messages  Jobs  5250  Database  Tables  My requests  Run SQL  Copy data to table  Import request  Import query Extract i5/OS data	My Folder         Print       Select a colu         Messages       Column         Jobs       Image: Select a colu         Database       Image: Select a colu         Tables       Image: Select a colu         My requests       Image: Select a colu         Copy data to table       Image: Select a colu         Import request       Image: Select a colu         Import query       Image: Select a colu         Extract i5/OS data       Image: Select a colu	My Folder         Print       Select a column.         Messages       Column       Type         Jobs <ul> <li>BTYPE</li> <li>CHAR(1)</li> <li>BNAME</li> <li>CHAR(30)</li> <li>BFEET</li> <li>NUMERIC(3)</li> <li>BYEAR</li> <li>NUMERIC(4)</li> <li>BCOST</li> <li>BNT01</li> <li>CHAR(72)</li> <li>BNT02</li> <li>CHAR(72)</li> <li>CHAR(72)</li></ul>	



#### **Choose the operator type**

- 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.

My Home Page	Condition Operator	
🗋 My Folder	eenanen eperater	
Print	Column: BCOST NUMERIC(9) Price in US\$	
Messages		
Jobs	<u>Column</u> > [Operator]	
5250		
Database	Select an operator.	
• Nables	C Exactly equal to C Between	
• My requests	· · · · · · · · · · · · · · · · · · ·	
• Run SQL	○ Not equal to ○ Not between	
<ul> <li>Copy data to table</li> </ul>	◯ Greater than ◯ Null	
• Import request	○ Greater than or equal to ○ Not null	
Import query	Greater than or equal to O Not hum	
• Extract i5/OS data	O Less than	
Files O Less than or equal to		
Command	Class than or equal to	
Download		
Customize	Back Next Apply Cancel	



#### **Choose static versus dynamic**

- 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

My Home Page	Condition Value Option	
🗋 My Folder	condition value option	
Print	Column: BCOST NUMERIC(9) Price in US\$	
Messages	Operator: Less than	
Jobs		
5250	Column > Operator > [Value option]	
Database	Select how the condition value is specified.	
• Tables	Select now the condition value is specified.	
• My requests	Specify condition value now	
• Run SQL	The user is not prompted for input when the request is run. The SQL Wizard	
<ul> <li>Copy data to table</li> </ul>	displays a page to enter the condition value.	
<ul> <li>Import request</li> </ul>		
Import query	$\bigcirc$ Prompt for condition value when request is run	
• Extract i5/OS data	The user is prompted for the condition value when the request is run. The	
Files	SQL Wizard displays pages to specify how the condition prompt is displayed.	
Command		
Download		
Customize	Back Next Apply Cancel	



# **Specifying a Static Value**

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

The value can be:

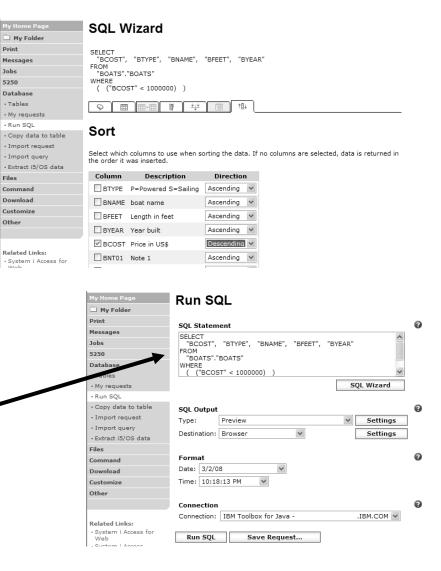
- Constant or
- Other specific function

Condition Value		
Column: BCOST NUMERIC(9) Price in US\$		
Operator: Less than		
Value option: Specify now		
Column > Operator > Value option > [Value]		
Specify a condition value. The value can be a constant, an SOL register, or a function		
Specify a condition value. The value can be a constant, an SQL register, or a function.		
Less than		
Find Value		
Value is a constant		
value is a constant		
Back Finish Edit Apply Cancel		
find eS in Files Fil		



#### 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





#### 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



### Run it later from "My Requests"

My Home Page	Save Request	
Print	<li>Request saved successf</li>	fully
Messages		any .
Jobs		
5250	Create another request	Create a new SQL request
Database	My requests	Display the list of your requests
• Tables		00,000 Run the saved request
<ul> <li>My requests</li> </ul>		
• Run SQL		
. Convidata to table		



#### **Dynamic Query – condition value**

Select to prompt for values when the request is run

My Home Page	Condition Value Option
🗋 My Folder	
Print	Column: BCOST NUMERIC(9) Price in US\$
Messages	Operator: Less than or equal to
Jobs	
5250	Column > Operator > [Value option]
Database	Select how the condition value is specified.
• Tables	Select now the condition value is specified.
• My requests	$\bigcirc$ Specify condition value now
• Run SQL	The user is not prompted for input when the request is run. The SQL Wizard
<ul> <li>Copy data to table</li> </ul>	displays a page to enter the condition value.
<ul> <li>Import request</li> </ul>	
<ul> <li>Import query</li> </ul>	Prompt for condition value when request is run
• Extract i5/OS data	The user is prompted for the condition value when the request is run. The SQL
Files	Wizard displays pages to specify how the condition prompt is displayed.
Command	
Download	
Customize	Back Next Apply Cancel



#### **Chose Operator and Prompt Type**

Fil Co Do Cu

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

Select how the user will be prompted for the values

y Home Page	Condition Op	perator
My Folder		
rint	Column: BCOST NUMER	RIC(9) Price in US\$
essages		
obs	Column > [Operator]	
250		
atabase	Select an operator.	
Tables	C Exactly equal to	OBetween
My requests	C Exactly equal to	Obecween
Run SQL	Not equal to	🔘 Not between
Copy data to table	O Greater than	O Null
Import request		
Import query	O Greater than or equal	I to ONot null
Extract i5/OS data	🔘 Less than	
les	• Less than or equal to	
ommand	Cess than or equal to	
ownload		
istomize	Back Next	Apply Cancel

My Home Page	Condition Prompt - Option		
D My Folder			
Print	Column: BCOST NUMERIC(9) Price in US\$		
Messages	Operator: Less than or equal to		
Jobs	Value option: Prompt when request is run		
5250			
Database	<u>Column</u> > <u>Operator</u> > <u>Value option</u> > Prompt > [Option]		
• Tables	Select how the condition value is specified.		
• My ·			
Run SQL	Enter value		
<ul> <li>Copy data to table</li> </ul>	The user enters the value in a field. The SQL Wizard displays a page to specify the initial value for this field.		
<ul> <li>Import request</li> </ul>			
• Import query	$\bigcirc$ Select from list of predefined values		
• Extract i5/OS data	The user selects the value from a list. The SQL Wizard displays a page to specify the values shown in the list.		
Files			
Command	${igtriangle}$ Select from list of existing column values		
Download	The user selects the value from a list. The list contains the unique column values in the table when the request is run.		
Customize	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.		
Other			
	Back Next Apply Cancel		



#### **Chose Operator and Prompt Type**

- 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

My Home P	age	Condition Prompt - Initial Value
🗋 My Fold	er	
Print		Column: BCOST NUMERIC(9) Price in US\$
Messages		Operator: Less than or equal to
Jobs Value optic		Value option: Prompt when request is run
5250		Prompt option: Enter value
Database		Column > Operator > Value option > Prompt > Option > [Initial value]
• Tables		Commin > Operator > Value option > Frompt > Option > [Initial Value]
• My reques	sts	Specify the initial value. If no value is specified, the field is displayed without an initial value.
• Run SQL		300000
• Copy data		
• Import re		Back Next Finish Edit Apply Cancel
• Import qu		back Hoxe Finnsh Care Appry Californ
Extract i5/	OS data	
Files		
Command		
Download		
Customize	My Home Page	Condition Prompt - Layout Settings
Other	🗀 My Folder	condition r rompt - Edyout octinigs
	Print	Column: BCOST NUMERIC(9) Price in US\$
Related Lin	Messages	Operator: Less than or equal to
• System i /	Jobs	Value option: Prompt when request is run <b>2</b>
• System i /	5250	
• System i l	Database	Layout option: Text only
• i5/OS Info	• Tables	Column > Operator > Value option > Prompt > Option > Initial value > Layout option > [Layout settings]
	• My requests	Column > Operator > value option > riompt > Option > rintia value > Layout option > [Layout settings]
	• Run SQL	Specify the prompt text. Line breaks are preserved if the 'Text contains HTML tags' option is not selected.
	• Copy data to	Boat Cost Upper Limit
• Import request • Import query • Extract i5/OS data		est
		data
Files		
	Command	Text contains HTML tags
	Download	
	Customize	Back Finish Edit Apply Cancel
	Other	



# Can Include Multiple Conditions on Dynamic SQL Requests

	My Home Page	SQL Wizard
	My Folder	
<ul> <li>Let's add another</li> </ul>	Print	SELECT
	Messages	"BCOST", "BTYPE", "BNAME", "BFEET", "BYEAR"
condition to this	Jobs	FROM BOATS.BOATS
	5250	WHERE
Dynamic SQL	Database	( ("BCOST" <= ?) )
-	• Tables	
Request	• My requests	
	• Run SQL	Condition
	• Copy data to table	Condition
	• Import request	
	. Import query	Action Condition Prompt Label Prompt Text Prompt Option
	• Ext. et i5/OS data	
	Files	To add a condition, click Add New Condition. To continue, click Next.
	Command	
	Download	Add New Condition
	Customize	
	Other	Back Next Finish Cancel



# Setting up Additional Operator and 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

My Home Page	Condition Prompt - Option
My Folder	
Print	Column: BTYPE CHAR(1) P=Powered S=Sailing
Messages	Operator: Exactly equal to
Jobs	Value option: Prompt when request is run
5250	
Database	Column > Operator > Value option > Prompt > [Option]
• Tables	Select how the condition value is specified.
• My requests	
• Run SQL	O Enter value
<ul> <li>Copy data to table</li> </ul>	The user enters the value in a field. The SQL Wizard displays a page to specify the initial value for this field.
<ul> <li>Import request</li> </ul>	
Import query	$\bigcirc$ Select from list of predefined values
• Extract i5/OS data	The user selects the value from a list. The SQL Wizard displays a page to specify the values shown in the list.
Files	
Command	Select from list of existing column values
Download	The user selects the value from a list. The list contains the unique column values in the table when the request is run.
Customize	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.
Dther	
	Back Next Apply Cancel

My Home Page	Condition Prompt - Layout Settings
D My Folder	Condition Prompt Edyout Counigo
Print	Column: BTYPE CHAR(1) P=Powered S=Sailing
Messages	Operator: Exactly equal to
Jobs	Value option: Prompt when request is run
5250	Prompt option: Select from existing values
Database	Layout option: Label only
• Tables	Column > Operator > Value option > Prompt > Option > Maximum list size > Initial value >
<ul> <li>My requests</li> </ul>	Layout option > [Layout settings]
• Run SQL	
<ul> <li>Copy data to table</li> </ul>	Specify the prompt label.
<ul> <li>Import request</li> </ul>	P=Powered S=Sailing exactly equal to:
Import query	
• Extract i5/OS data	Back Finish Edit Apply Cancel
Files	Back Finish Edit Apply Cancel



#### Set Display Order and See Conditions Set

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

 Shows how SQL has been written based on 2 Conditions

My Home Page	SQL V	Vizard		
🗋 My Folder				
Print	SELECT			
Messages		"BTYPE", "BNAME",	"BFEET", "BYEAR"	
Jobs	FROM BOATS.BO	DATS		
5250	WHERE			
Database		PE" = ?) )		
• Tables				
<ul> <li>My requests</li> </ul>	\$ ⊞			
• Run SQL	_			
<ul> <li>Copy data to table</li> </ul>	Sort			
<ul> <li>Import request</li> </ul>				
<ul> <li>Import query</li> </ul>	Select which	columns to use when s	orting the data. If no columns	are selected, da
• Extract i5/OS data	returned in t	he order it was inserted		
Files	Column	Description	Direction	
Command		P=Powered S=Sailing	Ascending 🗸	
Download				
Customize	BNAME	boat name	Ascending 🖌	
Other	BFEET	Length in feet	Ascending 😪	
	BYEAR	Year built	Ascending 🖌	
Related Links:	BCOST	Price in US\$	Descending 💙	
<ul> <li>System i Access for Web</li> </ul>	BNT01	Note 1	Ascending 🖌	
<ul> <li>System i Access</li> <li>System i Navigator</li> </ul>	BNT02	Note 2	Ascending 😪	
<ul> <li>i5/OS Information</li> </ul>	BNT03	Note 3	Ascending 🖌	

My Home Page	SQL	Wizard			
D My Folder					
Print	SELECT				
Messages		T", "BTYPE", "BNAI	ME", "BFEET", "BYEAR"		
Jobs	FROM BOATS	.BOATS			
5250	WHERE				
Database		COST" <= ?) AND TYPE" = ?) )			
• Tables					
<ul> <li>My requests</li> </ul>	9		≭≭ ◙ ↑₽↓		
• Run SQL					
<ul> <li>Copy data to table</li> </ul>	Conc	dition			
<ul> <li>Import request</li> </ul>	00110				
<ul> <li>Import query</li> </ul>	Action	Condition	Prompt Label	Prompt Text	Prompt Option
• Extract i5/OS data		("BCOST" <= ?)		Boat Cost Upper Limit	
Files			P=Powered S=Sailing exactly e.		Select from existing values
Command		AND ( DITPE = ?) P	r=rowered S=Salling exactly e.		Select from existing values
Download	To add a	condition, click Add N	ew Condition. To continue, click	Next.	
Customize		d Nam Can ditian			
Other	Ad	d New Condition			
Deleted Lieles	Back	Next Fin	ish Cancel		



#### User Runs Dynamic Query built with 2 Conditions

#### **User selects**

- Maximum cost of boat
- Type of Boat

My Home Page	Run SQL
🔲 My Folder	Null Ode
Print	Boat Cost Upper Limit
Messages	1000000
Jobs	P=Powered S=Sailing exactly equal to: 🖪 🗸
5250	
Database	OK Cancel
• Tables	
• My requests	
• Run SQL	
<ul> <li>Copy data to table</li> </ul>	

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

🗋 My Folder	SQL Outpu			
Print	Ф			
Messages	Page 1 of :	1 Jump to page: 1	101	Total: 12
Jobs	BCOST & BTYPE &		BFEET 🗘	BYEAR 🗘
5250	450000 S	Merlin's Magic	54	1990
Database	269500 S	Seafinn 411 Motorsailer Ketch	41	1989
• Tables	179500 S	Fountaine Pajot Antigua	37	1993
• My requests	179000 S	Nauticat 40	40	1989
• Run SQL	159900 S	Shannon 50 ketch	50	1981
<ul> <li>Copy data to table</li> </ul>	149000 S	Brandlmayr 48	48	1985
• Import request	80000 S	Garden Design Porpoise Ketch	51	1974
• Import query	69950 S	Corsair 27	27	1994
• Extract i5/OS data	69000 S	Morgan 382 Race/Cruise Sloop	38	1978
Files	63000 S	Mariner Ketch	40	1979
Command	57900 S	Hunter 33.5	33	1990
Download	27500 S	Bill Garden Schooner	36	1953
Customize	Page 1 of :	1 🕨 🕅 Jump to page: 1	2	Total: 12

SOL Output



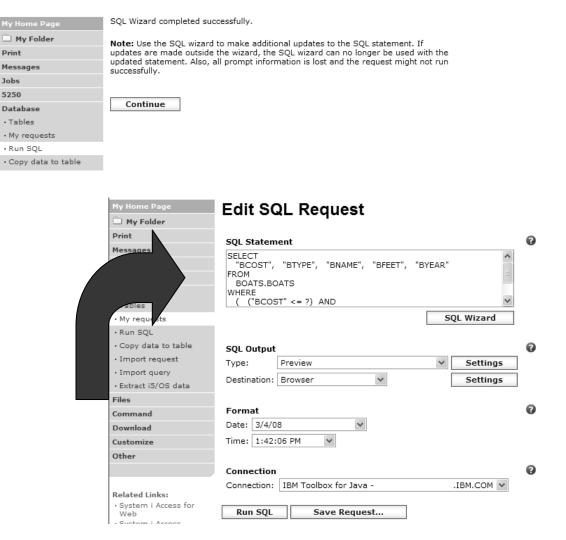
#### Dynamic query – wizard warning

Print

Jobs 5250

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

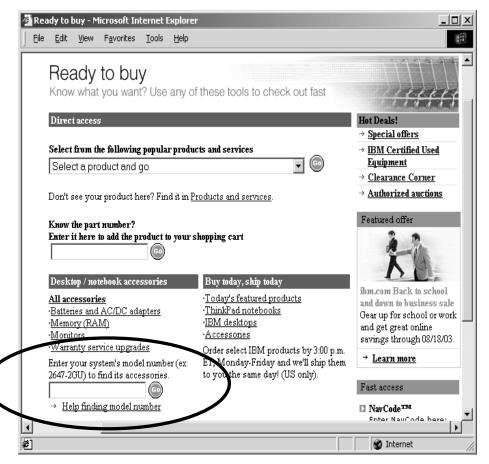
 If you wish to create your own you will need to manually add parameter markers directly into the SQL statements and create your own web page to prompt for the values





### **Dynamic Query – Form Example**

- 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"</p>
  - name="iwaparm\_1" value="" />



Great way to add Database requests to your existing web pages





#### **SQL Output Destinations**







### **SQL Output Destinations**

#### Choosing a destination

Choose from 4 different output destinations:

- Browser
- Email
- Personal folder
- **Integrated File** • System

My Home Page	Run SQL	
🗋 My Folder		
Print	SOL Statement	0
Messages	SQL Statement	•
Jobs		
5250		
Database		
• Tables		×.
• My requests		SQL Wizard
• Run SQL		
<ul> <li>Copy data to table</li> </ul>	SQL Output	0
• Import request	Type: Preview	✓ Settings
• Import query	Destination: Browser	
• Extract i5/OS data	Browser	Settings
Files	Integrated File System	
Command	Format Mail as attachment	0
Download	Date: 3/4/08	
Customize	Time: 1:45:38 PM 💌	
Other		
	Connection	0
Related Links:	Connection: IBM Toolbox for Java -	.IBM.COM 🗸
System i Access for Web     System i Access	Run SQL Save Request	]

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#### **Run SQL – Output Browser**

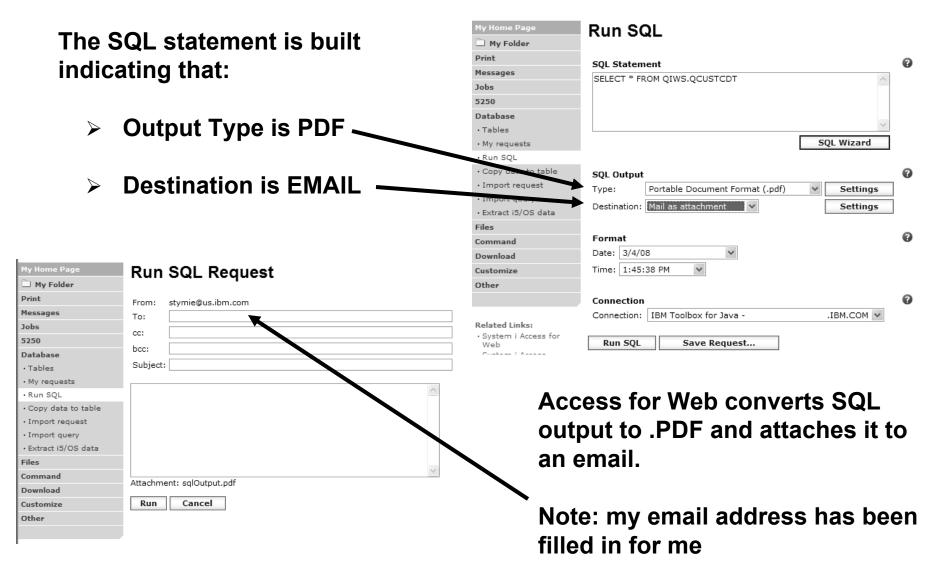
	My Home Page	Run SQL	
The COL statement is	🗋 My Folder		
The SQL statement is	Print	SOL Statement	0
built indication that	Messages	SELECT * FROM QIWS.QCUSTCDT	ĩ
built indicating that	Jobs		2
Output Type is Misroeeft	5250		
Output Type is Microsoft	Database		
	• Tables	<u></u>	1
Excel.	<ul> <li>My requests</li> </ul>	SQL Wizard	
	• Run SQL		
	Conv data to table	SQL Output	0
	Import request	Type: Microsoft Excel 4 (.xls) Settings	
	Import query	Destination: Browser V Settings	-
	Extract i5/OS data		
	Files		0
	Command	Format	v
	Download	Date: 3/4/08	
	Customize	Time: 1:45:38 PM 💌	
	Other		
		Connection	0
		Connection: IBM Toolbox for JavaIBM.COM 🗹	
	Related Links:		
	<ul> <li>System i Access for Web</li> </ul>	Run SQL Save Request	
	Combone : Annon		

	A1	•	<i>f</i> ∗ CUSNU	JM								
	A	В	С	D	E	F	G	Н	1	J	K	L
1	CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE	
2	938472	Henning	GK	4859 Elm	Dallas	TX	75217	5000	3	37	0	
3	839283	Jones	ВD	21B NW 1	Clay	NY	13041	400	1	100	0	
4	392859	Vine	SS	PO Box 79	Broton	VT	5046	700	1	439	0	
5	938485	Johnson	JA	3 Alpine V	Helen	GA	30545	9999	2	3987.5	33.5	-
6	397267	Tyron	WE	13 Myrtle	Hector	NY	14841	1000	1	0	0	
7	389572	Stevens	ΚL	208 Snow	Denver	CO	80226	400	1	58.75	1.5	
8	846283	Alison	JS	787 Lake I	Isle	MN	56342	5000	3	10	0	
9	475938	Doe	JW	59 Archer	Sutter	CA	95685	700	2	250	100	
10	693829	Thomas	AN	3 Dove Cir	Casper	WY	82609	9999	2	0	0	
11	593029	Williams	ED	485 SE 2	Dallas	TX	75218	200	1	25	0	
12	192837	Lee	FL	5963 Oak	Hector	NY	14841	700	2	489.5	0.5	
13	583990	Abraham	MIT	392 Mill St	Isle	MN	56342	9999	3	500	0	
14												
45												

Browser sees the .xls format type, starts Excel, and displays the results in a spreadsheet



#### **Run SQL – Destination EMAIL**





#### **Run SQL – My Personal Folder**

## The SQL statement is built indicating that:

- > Output Type is HTML
- Destination is My Folder

- > Click on <u>My Folder</u> link
- Select SQL Output
- Shown to me in HTML

My Home Page	Run SQL	
🗋 My Folder		
Print	SOL Statement	0
Messages	SELECT * FROM QIWS.QCUSTCDT	•
Jobs		
5250		
Database		
• Tables	<u> </u>	
• My requests	SQL Wizard	
• Run SQL		
<ul> <li>Copy data to table</li> </ul>	SQL Output	0
Import request	Type: Hypertext Markup Language (.html) 🛛 Settings	
• Import que,	Destination: Personal folder	
• Extract i5/OS data	Beenings	
Files		ຄ
Command	Format	U
Download	Date: 3/4/08	
Customize	Time: 1:45:38 PM 💌	
Other		
	Connection	0
	Connection: IBM Toolbox for Java	
Related Links:		
<ul> <li>System i Access for Web</li> </ul>	Run SQL Save Request	

My Home Page	My Folder
Print	C C Select List Action V C
Messages	Page 1 of 1 D Jump to page: 1 Total: 2
Jobs	
5250	Select         Item ◊         Status ◊         From ◊         Date/Time ◊         Size ◊         Action 𝚱
Database	SQL output in HTML Unopened <u>ihansen</u> 3/4/08 2:00 PM 2587 🗑 🗎 🗋 🔄 🔂
Files	Status [SQL output in HTML] Unopened ihansen 3/4/08 2:00 PM 202 💓 🛍 🗋 🕼 🕅
Command	🕅 🔍 Page 1 of 1 🕨 🕅 Jump to page: 1 🕐 Total: 2
Download	

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



#### Run SQL – Integrated File System

- 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

My Home Page	Run SQL	
🗋 My Folder		
Print	SQL Statement	e
Messages	SELECT * FROM QIWS.QCUSTCDT	
obs		
250		
atabase		
Tables	×	
• My requests	SQL Wizard	
Run SQL		
Copy data to table	SQL Output	6
Import quest	Type: Hypertext Markup Language (.html) V Settings	
	Destination: Integrated File System V Settings	1
Extract //OS data	Settings	]
Files		~
Command	Format	C
ownload	Date: 3/4/08	
Customize	Time: 1:45:38 PM 🗸	
Other		
	Connection	G
	Connection: IBM Toolbox for Java	
Related Links:		
<ul> <li>System i Access for Web</li> </ul>	Run SQL Save Request	

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

My Home Page	Directory C	ontents /	JHA	NSEN	
🗄 My Folder	2	•	<u>•••••</u>		
Print	Found 0 directories. Fo	ound 3 files with a	total size	e of 10.035 bytes.	
Messages					
Jobs	🗘 🛛 Select List	Action 👻 👌			
5250				· · ·	
Database	Name 🕏	Size (bytes) 🗘	Type ≎	Modified 🗘	Action 🕜
	/ (Parent Directory)				
-5	sqlOutput.html	2587	File	3/4/08 2:20:52 PM	4 6 앞 🛈 🗟
• Brows, file share	sqlOutput.pdf	4593	File	3/4/08 2:20:50 PM	다 다 오 🗊 🖄
• File shares	sqlOutput.xls	2855	File	3/4/08 2:20:09 PM	다 다 <u>다</u> ㅎ
Command					



#### **Destination Settings**

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

Item description:

Folder owner:

OK

Personal Folder Settings

jhansen

Cancel

Always prompt for folder settings when request is run

🛨 My Folder	
Print	From: stymie@us.ibm.com
Messages	To:
lobs	cc:
5250	bcc:
Database	
• Tables	Subject:
My requests	
• Run SQL	
<ul> <li>Copy data to table</li> </ul>	
<ul> <li>Import request</li> </ul>	
Import query	
Extract i5/OS data	
iles	
ommand	Attachment: sglOutput.
Download	Accommence aquocipaci
Customize	Always prompt for mail settings when request is run
Other	
	OK Cancel
e	
My Home Page	Integrated File System Settings
🕂 My Folder	
rint	File: Browse
essages	
Jobs	Replace if exists

Cancel

OK

🕂 My Folder Print

Messages

Jobs

5250 Database

Tables

5250 Database

Tables



## **My Requests**

### Other ways to manage and use database requests





#### **Export Database Requests (V6R1)**

- Save System i 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

r       C         C       Request *       Description *       Action *       Shortcut *       Owner *       Accion *         Boats for Less Than \$1,000,000       S       S       S       S       C       No       jhansen       jhan         Boats for Less Than \$1,000,000       S       S       S       S       C       No       jhansen       jhan         Boats for Less Than \$1,000,000       S       S       S       S       C       No       jhansen       jhansen         Boats for Less Than \$1,000,000       S       S       S       S       C       No       jhansen       jhansen       jhan       ho       jhansen       jhansen       jhansen       jhan       fit       fit       S       <	ge	My Requests					
Import equests       Impor	2r						
Request ©       Description ©       Action ©       Shortcut ©       Owner ©       Action ©       Shortcut ©       Shortcut ©       No       Jhansen		Ø					
Boats for Less Than \$1,000,000       Image: The standard stand		Page 1 of 1 🕨 🕅	Jump to page: 1	Total: 10			
Boats for Less Than \$1,000,000       Image: The standard stand		Request ☆	Description 0	Action 0	Shortcut 🗘	Owner 🗘	Acce
Boats for Sale       View all available boats       Image: Similar Si							jhans
a       customers       Image: Customers       Image: Customers       Image: Customers       Image: Customers       Image: Customers       Image: Customer		Boats for Sale	View all available boat			jhansen	jhans
Find a Boat       Dynamic query example       Image: Image		customers				jhansen	jhans
In bot       Find Boat to Buy       Select type and price limites       Image: Image	5	Find a Boat	Dynamic query examp			jhansen	jhans
My Customer Mailing       Mail customer list       Mail Cus	o table	Find Boat to Buy	Select type and price			jhansen	- jhans
Put My Customer List in Folder       Store customer list       Store in Put         S data       Shortcut to Find Boat to Buy       Select type and price limites       Store in Put         Shortcut to My Customer Mailing Mail customer list       Store in Put       Store in Put         Shortcut to My Customer Mailing Mail customer list       Store in Put       Store in Put         Shortcut to My Customer Mailing Mail customer list       Store in Put       Store in Put         Wall_public       wall_public       wall All Boats       Yes       ihansen       *Put         Wall_public       wall All Boats       Yes       ihansen       *Put         Wall_public       wall All Boats       Yes       wall and met *Put         Create a new SQL request       Total: 10       Total: 10         Au       Create a new SQL request       Create a new copy data request       Stortcust to requests you manage         Obsplays a list of shortcuts to requests you manage       Shortcuts can be deleted from this list.       Import requests from System i Access for Web.         Export database requests       Export Database Requests       Export Database Requests         Database help       View help for working with database requests.       Select Request Description         Jobs       Sols       Select Request Description       Customers		My Customer Mailing					jhanse
Is data       Shortcut to Find Boat to Buy       Select type and price limites       Image: Type in the select type and price limites       Type in the select type and price limites			Store customer list			-	jhanse
Shortcut to My Customer Mailing Mail customer list wa01_public wa01 All Boats Wa01_public wa01 All Boats Pege 1 of 1 Pege 1 of 1 Mump to page: 1 Total: 10 Run SQL Create a new SQL request Create a new SQL request Create a new copy data request Create a new copy data request Create a new copy data request Shortcuts to requests you manage Shortcuts to requests you manage. Shortcuts can be deleted from this list. Import database requests Import database requests Catabase help View help for working with database requests. Select requests to export. Messages Solution Solution Solution Select Request Description Solution Select Request View all available boats Trables My requests My requests	S data						*PUBI
wa01_public       wa01 All Boats       wa01 all boats       wa01 wave         wa01_public       wa01 All Boats       wave       wave <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>*PUBL</td>						-	*PUBL
Image:						•	
Run SQL Create a new SQL request         cess wigstor         Shortcuts to requests you manage Upplays a list of shortcuts to requests you manage. Shortcuts can be deleted from this list.         issource       Import database requests Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests Export requests from System i Access for Web.         Export database requests         Batabase       Select requests to export.         Batabase       Customers         Boats for Sale       View all available boats         My requests       Find Boat to Buy							
Image: Create a new SQL request         cess for       Copy data to table         cess       Create a new copy data request         imation       Displays a list of shortcuts to requests you manage. Shortcuts can be deleted from this list.         import requests from a file to System i Access for Web.       Export database requests         Export database requests       Export database requests         View help for working with database requests.       Export Database Requests         My Home Page       Export Database Requests         Print       Select requests to export.         Messages       Jobs         Sz50       Customers         Database       Database         Ying You requests       Select Request Description         Sz50       Customers         Database       Boats for Sale       View all available boats         Tables       Find Boat to Buy       Select type and price limites		N Page 1 of 1	Jump to page: 1	C Iotai: 10			
st       Create a new SQL request         crease a new SQL request       Copy data to table         crease a new copy data request       Shortcuts to requests you manage. Shortcuts can be deleted from this list.         esource       Import requests from a file to System i Access for Web.         Export database requests       Export database requests         Export database requests       Export database requests         Export database requests       Export database requests         Export database requests       Export marking with database requests.         View help for working with database requests.       Select requests to export.         Hessages       Jobs         Solo       Customers         Database       Outsomers         Database       Boats for Sale       View all available boats         - Tables       - My requests       Find Boat to Buy       Select type and price limites							
Image: Select requests to export.       Messages       Jobs     Select requests to export.       Messages       Jobs     Select Request Description       S250     Customers       Database     Boats for Sale     View all available boats       · Tables     Find Boat to Buy     Select type and price limites	Navigator prmation Resource	Displays a list of shortcuts to requ <u>Import database requests</u> <u>Import requests from a file to Sys</u> <u>Export database requests</u> <u>Export requests from System i Ac</u> <u>Database help</u>	ests you manage. Shor tem i Access for Web. cess for the to a file.	tcuts can be deleted from t	his list.		
5250     Image: Customers       5250     Image: Customers       Database     Boats for Sale     View all available boats       Tables     Image: Find Boat to Buy     Select type and price limites		라 My Folder Print	Схро		equests		
Jabase     Boats for Sale     View all available boats       • Tables     Find Boat to Buy     Select type and price limites		-	Select	Request	Des	cription	
Tables     Find Boat to Buy     Select type and price limites     My requests		5250	¥	customers			
Tables     Find Boat to Buy     Select type and price limites     My requests		Database		Boats for Sale	View all ava	ilable boats	
• My requests		• Tables		Find Boat to Buy	Select type	and price lin	nites
		My requests		,			

Put My Customer List in Folder Store customer list

Select All

Dynamic query example

Deselect All

Boats for Less Than \$1,000,000

Find a Boat

Export Requests

Copy data to table Import request

Extract i5/OS data

Import auerv

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#### Import Database Requests (V6R1)

- Import System i Access for Web database requests from a file
  - Move requests to another system
- Default connection is associated with imported requests
  - Can specify other connection
  - Important to select a connection appropriate for the request so that it will work properly

My Home Page	Import Database Requests
Print	Specify the file containing requests to import.
Messages	
Jobs	File: Browse
5250	
Database	Import Requests
- · ·	2

Messages	✓ Page 1 of 1 ▶ ▶ Jump	to page: 1 🕐 Total: 6				
Jobs			Action 😧			
5250	Request Shortcut to Boats for Sale	Description ≎ View all available boats		Shortcut 🗘		
Database				Yes	jhansen	stymie
• Tables	Shortcut to Find Boat to Buy	Select type and price limites		Yes	jhansen	*PUBLIC
• My requests	Shortcut to My Customer Mailing	Mail customer list	1 🗅 🔒 💀	Yes	jhansen	stymie
• Run SQL	Shortcut to My Customer Mailing	Mail customer list	- 山 - 副	Yes	jhansen	*PUBLIC
<ul> <li>Copy data to table</li> </ul>	Shortcut to Put My Customer List in Fol	der Store customer list	1 0 0 2 💀	Yes	jhansen	stymie
• Import request	wa01_public	wa01 All Boats	x 🗅 💀	Yes	wa01adm	*PUBLIC
Import query	Page 1 of 1 🕨 🕅 Jump	to page: 1 🕐 Total: 6				
• Extract i5/OS data						
Files						
Command						
Download	Run SQL Create a new SQL request					
Customize	Conv. data ta tabla					
Other	Copy data to table Create a new copy data request					
	Shortcuts to requests you manage					
	Displays a list of shortcuts to requests you	ou manage. Shortcuts can be dele	eted from this list.			
Related Links:		-				
System i Access for     Web	Import database requests Import requests from a file to System i J	Access for Web.				
System i Access		1				
<ul> <li>System i Navigator</li> </ul>	Export database requests Export requests from System i Access for	w Web to a file				
<ul> <li>i5/OS Information</li> <li>Center</li> </ul>	Export requests from System FAccess fo	in web to a file.				
• System i Resource	Database help View help for working with database reg					
Center	view help for working with database req	uests.				

My Home Page	Impo	ort Database Rec	quests				
Print	File Det	ails					
Messages	File nan	ne: C:\Documents and Setting	s\Administrator\My [	Document	s\myDBRequests.request	s O	
Jobs	Reques	ts: 3				3	
5250	Calastas	quests to import.					
Database	Selectre	quests to import.					
• Tables		nce connection information is no an incorrect connection could c					uest is strongly recommend.
<ul> <li>My requests</li> </ul>	Selecting	an incorrect connection could c	ause the request to t	iali, or ua	ta to be lost, when the re	quest is run.	
• Run SQL	Select	Request	Description	Owner	Target Request		Connection
<ul> <li>Copy data to table</li> </ul>	$\checkmark$	customers		jhansen	customers	IBM Toolbox for Ja	vaibm.com 🗸
<ul> <li>Import request</li> <li>Import query</li> </ul>	<b>V</b>	My Customer Mailing	Mail customer list	jhansen	My Customer Mailing	IBM Toolbox for Ja	vaibm.com 🗸
• Extract i5/OS data	$\checkmark$	Put My Customer List in Folder	Store customer list	jhansen	Put My Customer List in	IBM Toolbox for Ja	vaibm.com 💌
Files							
Command							
Download		Import Selected Requests	Select	AII	Deselect All		



#### **Transfer Requests to a Group (V6R1)**

- Transfer requests
  - Transfer to a group (must be a group member)
  - Group members can manage request
  - Group members can transfer requests to themselves

My Home Page	My Requests					
D My Folder						
Print	Ø					
Messages		Jump to page: 1 👌	Total: 5			
Jobs	Request ≎	Description \$	Action	Shortcut 🗘	Owner ≎	Access 0
5250	Customers			No	irhuser1	irhuser1
Database						2
• Tables	Inventory		* • • • • • • • • • •	NO	jrhuser1	jrhuser1
My requests	Shortcut to Find Boat to Buy	Select type and price limites		Yes	jhansen	*PUBLIC
• Run SQL	Shortcut to My Customer Mailing	Mail customer list	<b>夫</b> 山 磊	Yes	jhansen	*PUBLIC
Copy data to table	wa01_public	wa01 All Boats	「 日 ふ	Yes	wa01adm	*PUBLIC
Import request	Page 1 of 1 🕨 🕅	Jump to page: 1 👌	Total: 5			
Import query						

ly Home Page	Transfer Request
Print	Request name: Inventory
lessages	Profile: JRHGROUP V
obs	FIGHE. JAHGROOF
250	Transfer
Database	

My Home Page	My Requests					
🗋 My Folder	my noqueete					
Print	Ø					
Messages	Page 1 of 1	Jump to page: 1 🕐	Total: 5			
Jobs	Request 🕏	Description 🗘	Action 😧	Shortcut	Owner ≎	Access
5250	Customers					irhuser1
• Tables	Inventory			No	, jrhgroup	jrhgroup
My requests	Shortcut to Find Boat to Buy	Select type and price limites	x 🗅 💀	Yes	ihansen	*PUBLIC
• Run SQL	Shortcut to My Customer Mailing	Mail customer list	x D 5	Yes	jhansen	*PUBLIC
<ul> <li>Copy data to table</li> </ul>	wa01_public	wa01 All Boats	<u>x</u> D 3	Yes	wa01adm	*PUBLIC
• Import request	Page 1 of 1 🕨 🕅	Jump to page: 1 🛃 👌	Total: 5			
Import query						



#### Create Task to Run Request (V6R1)

- Create automated task
  - Create Java archive (.jar) that will run request or shortcut
  - Only static queries (not dynamic)
  - Run anywhere that has java and network access
  - Can be scheduled

. . .

My Home Page	My Requests					
🕂 My Folder	my nequeoto					
Print	Φ					
Messages	Page 1 of 1	Jump to page: 1	Total: 10			
Jobs	Request ≎	Description \$	Action 😧	Shortcut 🗘	Owner 🗅	
5250	Boats for Less Than \$1,000,000	Description		No	ihansen	ihansen
Database						
• Tables	Boats for Sale	View all available boats	x D 🛍 L 💀 Z 🖊	No	jhansen	jhansen
• My requests	customers		えい自. 蒜 2 /	No	jhansen	jhansen
Run SQL	Find a Boat	Dynamic query example	* 1 0 . 5 2 /	No	jhansen	jhansen
<ul> <li>Copy data to table</li> </ul>	Find Boat to Buy	Select type and price limites	x 🗅 🛍 📙 🔜 Z 🖊	No	jhansen	jhansen
• Import request	My Customer Mailing	Mail customer list	* • • • •	No	jhansen	jhansen
Import query	Put My Customer List in Folder	Store customer list	* 1 0 4 5 2 /	No	jhansen	jhansen
• Extract i5/OS data	Shortcut to Find Boat to Buy	Select type and price limites		Yes	jhansen	*PUBLIC
Files	Shortcut to My Customer Mailing	Mail customer list		Yes	jhansen	*PUBLIC
Command	wa01_public	wa01 All Boats	表 L 暴	Yes	wa01adm	*PUBLIC
Download		Jump to page: 1 👌		_	-	
Customize	Page 1 of 1	Jump to page: 1 🛃 🙋	Total: 10			

peing written to: customers

ytes written to output file: 994 ing completed for property file task.properties

ocuments and Settings∖Administrator∖My Documents>

and Settings\Administrator\My Documents>start customers.csv

My Home Page	Create Au	itomated Task			
🖻 My Folder					
Print	Request:	customers	My Home Page	Create Automated Task	
Messages	User profile:	jhansen	🖭 My Folder	Cicate Automated Task	
Jobs	Password:	ſ	Print	<ul> <li>Automated task created successfully.</li> </ul>	
5250	Confirm password	:	Messages	Automated task created successibility.	
Database	Output file:	sqlOutput.csv	Jobs		
• Tables	Java archive:	iWATask.jar	5250	Request: customers	🖾 Command Prompt 📃 🗖 🗙
My requests     Run SQL			Database	User profile: jhansen	Microsoft Windows XP [Version 5.1.2600]
Copy data to table	Create A	utomated Task	• Tables	Output file: customers.csv Java archive: CustomersTask.jar	C:\Documents and Settings\Administrator>^1 "iv vocuments"
			<ul> <li>My requests</li> </ul>	Java archive. Customersraskijar	
			• Run SQL		C:\Documents and Settings\Adminis&rator\My Documents>java -jar CustomersTask.jar
			<ul> <li>Copy data to table</li> </ul>		
			Import request		Processing property file task.properties Connecting to http:// ibm.com:2020/webaccess/iWADbExec?request=cu
			Import query	CustomersTask.jar Download automated task Java archive	stomers
			• Extract i5/OS data	My requests Display the list of your requests	Connection completed, waiting for a response Connection response code: 200
			Files		Connection response code message: OK The URL connection completed successfully.



#### **Shortcuts**

# Give users access to upload/download requests you have created





#### Shortcuts – working with, managing

Under "Action" column, you can:

 Create shortcuts to existing requests

At bottom of screen, you can:

- List shortcuts you have created
- Delete shortcuts from the list

My Home Page	My Requests							
🕂 My Folder	<i>,</i>							
Print	Ø							
Messages		Jump to page: 1	Total: 9					
Jobs	Request \$	Description \$	Action	Shortcut 🗘	Owner 🏠			
5250	Boats for Less Than \$1,000,000	Description v			ihansen	ihansen		
Database	Boats for Sale	View all available boats			-	ihansen		
• Tables	customers	view all available boats				ihansen		
<ul> <li>My requests</li> </ul>	Find a Boat	Dynamic query example				ihansen		
• Run SQL								
<ul> <li>Copy data to table</li> </ul>	Find Boat to Buy	Select type and price limites			,	jhansen		
<ul> <li>Import request</li> </ul>	My Customer Mailing	Mail customer list			-	jhansen		
Import query	Put My Customer List in Folder	Store customer list	x D 🛈 🗋 🐼 Z 🖌	No	jhansen	jhansen		
• Extract i5/OS data	Shortcut to Find Boat to Buy	Select type and price limites	<u>x</u> D D 💀	Yes	jhansen	*PUBLIC		
Files	Shortcut to My Customer Mailing	Mail customer list	x D 🖻 🗟 🗸 🗸	Yes	jhansen	*PUBLIC		
Command	Page 1 of 1 🕨 🕅	Jump to page: 1 🛃	Total: 9					
Download								
Customize								
Other	Run SOL							
	Create a new SQL request							
Related Links:	<u>Copy data to table</u> Create a new copy data request							
System i Access for Web	Create a new copy data request							
• Syst • System i Navigator	<u>Shortcuts to requests you manage</u> Displays a list of shortcuts to requests you manage. Shortcuts can be deleted from this list.							
<ul> <li>i5/OS Information Center</li> </ul>	Import database requests							
• System i Resource	Import requests from a file to Sys	tem I Access for Web.						
Center	Export database requests Export requests from System i Acc	cess for Web to a file.						
	Database help View help for working with databas	se requests.						
	view neip for working with databas	se requests.						



#### Shortcuts – giving users access

Under "Actions" select Create Shortcuts.

Click Add... button to see all users and groups on the system.

 Add the users and groups you want to run this saved request

If the Predefined Request changes, the Shortcut is automatically changed for users too

My Home Page	Create Shortcut
🕂 My Folder	
Print	Create shortcut to "customers"
Messages	
Jobs	Shortcut name: Shortcut to customers
5250	Access: Add.
Database	
• Tables	Create Shortcut
• My requests	
• Run SQL	Database help
• Copy data to table	View help for creating a shortcut.
• Import request	
• Import query	
• Extract i5/OS data	
Files	
Command	
Download	
Download Customize	



#### **Set Policies for Requests/Shortcuts**

Policies work on i5/OS User Profiles – Users and Groups

## Decide what users can do with your shortcuts

- Copy them
- Delete them

Set up Policies to:

 Allow users to create and modify requests

or

 Run only previously defined shortcuts

	Snortcut							
/ Home Page	My Requests	(in	dicato	<b>r</b> )				
My Folder	My Requests	<u> </u>	aiouto	·/				
int	Φ			5				
essages	Page 1 of 1	Jump to page: 1	Total: 9	<u>ک</u>				
bs	Request ≎	Description \$	Action 😧	Shortcut 🗘	0	A		
50	Boats for Less Than \$1,000,000	Description V		No	ihansen	ihansen		
itabase	Boats for Sale	View all available boats		No	ihansen	ihansen		
Tables	customers			No	ihansen	ihansen		
My requests	Find a Boat	Dynamic query example		No	jhansen	ihansen		
Run SQL Copy data to table	Find Boat to Buy	Select type and price limites		No	ihansen	ihansen		
mport request	My Customer Mailing	Mail customer list		No	jhansen	jhansen		
import query	Put My Customer List in Folder	Store customer list		No	jhansen	jhansen		
extract i5/OS data	Shortcut to Find Boat to Buy	Select type and price limites		Yes	ihansen	*PUBLIC		
es	Shortcut to My Customer Mailing			Yes	ihansen	*PUBLIC		
mmand			<b>永</b> 山 🗊 🕾	res	jnansen	"PUBLIC		
wnload	Page 1 of 1 🕨 🕅	Jump to page: 1 🕐	Total: 9					
stomize								
her								
	Run SQL Create a new SQL request							
e <b>lated Links:</b> System i Access for Neb System i Access	<u>Copy data to table</u> Create a new copy data request <u>Shortcuts to requests you manage</u>							
System i Navigator 5/OS Information Center System i Resource	Displays a list of shortcuts to requ Import database requests Import requests from a file to Sys		an be deleted from this lis	st.				
Center	Export database requests Export requests from System i Act Database help View help for working with databa							



# User can only run shortcuts previously built by someone else

My Home Page	My Requests					
🗋 My Folder						
Print	Ø					
5250	Page 1 of 1 Dump to	page: 1 👌 Total: 5				
Database	Request ≎	Description 🗘	Action 😧	Shortcut 🗘	Owner 🗘	
<u>My requests</u>	•	•				
• Run SQL	Shortcut to Boats for Sale	View all available boats	×	Yes	jhansen	stymie
Files	Shortcut to Find Boat to Buy	Select type and price limites	×	Yes	jhansen	*PUBLIC
Download	Shortcut to My Customer Mailing	Mail customer list	×	Yes	jhansen	stymie
	Shortcut to My Customer Mailing	Mail customer list	×	Yes	jhansen	*PUBLIC
	Shortcut to Put My Customer List in Folder	Store customer list	×	Yes	jhansen	stymie
Related Links: • System i Access for Web • System i Access	Page 1 of 1 🕨 🕅 Jump to	page: 1 (* Total: 5				
<ul> <li>System i Navigator</li> <li>i5/OS Information Center</li> <li>System i Resource Center</li> </ul>	Run SQL Create a new SQL request Shortcuts to requests you manage Displays a list of shortcuts to requests you	manage. Shortcuts can be dele	eted from thi	s list.		

Database help View help for working with database requests.



#### **Import Requests and Import Queries**

	System i Access for \	V	
	My Home Page		
	🗄 My Folder		
	Print		
	Messages		
	Jobs		
	5250		
	Database		
	• Tables		
	<ul> <li>My requests</li> </ul>		
	• Run SQL		
	Copy data to table		
	• Import request • Import query		
<u> </u>	Extract i5/OS data		
	Files		
	Command		
	Download		
	Customize		
	Other		
	1		





#### **Importing Client Access Data Transfer Requests**

Import your existing System i Access for Windows and Client Access Data Transfer requests into System i Access for Web!

말] Data Transfer Fr	om AS/400					
File View Help						
ia 🖻 🔒 🖻						
	AS/400 System name: File name:	ISERIES Data Transfer File View Tools 같을 23 대한 11 11	Help	<b>•</b>		X
	PC Output device: [ File name: [		PC File name: AS/400 System: Library/File			Browse
		01	,			Details
			[	Transfer (	data to AS/400	

#### **Import Function**

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

My Home Page	Import Client Access Data Transfer Request			
🕂 My Folder				
Print	Specify the Client Access Data Transfer request you want to import. The request will be			
Messages	converted to an System i Access for Web request.			
Jobs	Note: The converted System i Access for Web request could work differently than the			
5250	Client Access request. Verifying the converted request is strongly recommended.			
Database				
• Tables	Request to Import			
• My requests	Client Access request: Browse			
• Run SQL	Character set: Western [ISO-8859-1]			
<ul> <li>Copy data to table</li> </ul>				
<ul> <li>Import request</li> </ul>	Import Request			
<ul> <li>Import query</li> </ul>				
• Extract i5/OS data	Database help			
Files	View help for importing Data Transfer requests.			
Command				
Download				
Customize				
Other				



#### **Import Query Requests**

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

My Home Page	Import Query			
🕂 My Folder				
Print	Specify the query file you want to import. The query contained in the query file will be			
Messages	converted to an System i Access for Web database request.			
Jobs	Note: The converted System i Access for Web database request could work differently			
5250	than the original query file. Verifying the converted request is strongly recommended.			
Database				
• Tables	Query to Import			
• My requests	Query file: Find			
• Run SQL	Query type: DB2 for i5/OS Query Manager (*QMQRY) V			
<ul> <li>Copy data to table</li> </ul>	Query file CCSID: Query for i5/OS (*QRYDFN)			
• Import request	DB2 for i5/OS Query Manager (*QMQRY)			
• Import query	Import Query			
• Extract i5/OS data	Tubort duci à			
Files				
Command	<u>Database help</u> View help for importing queries.			
Download	view help for importing queries.			
Customize				
Other				

#### \*QMQRY and \*QRYDFN are the query file types supported



#### **Extract i5/OS Data**

System i Access for V
My Home Page
🗄 My Folder
Print
Messages
Jobs
5250
Database
• Tables
• My requests
• Run SQL
<ul> <li>Copy data to table</li> </ul>
• Import request
Import query
• Extract i5/OS data
Files
Command
Download
Customize
Other



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#### Extract i5/OS Object Data

- Extract i5/OS object information into a database table or tables.
- Then use Tables • or Run SQL functions to retrieve relevant data.

	EXITACI 15/05 Object Data	
🕂 My Folder		
Print	Object Data to Extract	2
Messages	Objects: Directory entries	
Jobs		
5250	Table to Receive Data	2
Database	Table:	
• Tables	Replace table if table exists	
• My requests		
• Run SQL	Extract Results	2
<ul> <li>Copy data to table</li> </ul>	Output: Browser 💌	
<ul> <li>Import request</li> </ul>		
<ul> <li>Import query</li> </ul>	Connection	2
• Extract i5/OS data	Connection: IBM Toolbox for JavaIBM.COM 🗸	
Files		
Command	Extract Data	
Download		
Customize	Database help	
Other	View help for extracting i5/OS data and storing it in a database table.	

tract if/OC Object Date



### Extract i5/OS Object Data

Extract i5/OS Object Data can be used to retrieve information about i5/OS objects and store the results in a database table

- General object information can be retrieved for any i5/OS 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 i5/OS object information in any manner that is of importance to you.



#### GUI to work directly with DB2 for i5/OS Table data

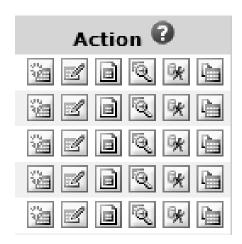




#### Tables – work with i5/OS database information

My Home Page	Tables				
🕂 My Folder					
Print	Connection: IBM Toolbox for JavaIBI Table filter: *USRLIBL, BOATS			.IBM.COM	
Messages					
Jobs					
5250	Ф				
Database	M Page 1 of 11	1 🕨 🕨 Jump to pag	ge: 1 🕐	Total: 262	
• Tables	Table 🗢	Descriptio	n ≎	Action 🕜	
• My requests	BOATS.BOATS	Available BOATS			
• Run SQL	BOATS.BOATS1	Available boats by leng	th		
Copy data to table     Import request	BOATS.PCFILES	PC files needed by BOA	TS WSG Demo		
Import query	BOATS.QCLSRC				
• Extract i5/OS data	BOATS.QCMDSRC				

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





# **Working with Tables**

My Home Page	Tables	Connection & Table Filter		
🗄 My Folder	Tables	Table Filler	)	
Print	Connection: IBM Too	lbox for JavaIBM.	сом	Table Actions
Messages		BL, BOATS		
Jobs			l	<u> </u>
5250	¢			
Database	Page 1 of 11	🕨 🕨 Jump to page: 1 🥐	Total: 26	2
• Tables	Table 🕏	Description 🗘	Actio	n 😧
<ul> <li>My requests</li> </ul>	BOATS.BOATS	Available BOATS	ğ 🖌 D	Q . H
• Run SQL	BOATS.BOATS1	Available boats by length	7a 2 D	Q 94 M
Copy data to table	BOATS.PCFILES	PC files needed by BOATS WSG Demo		Q 94 M
Import request     Import query	BOATS.QCLSRC			Q 94 M
Extract i5/OS data	BOATS.QCMDSRC			Q 94 M
Files	BOATS.QDDSSRC			Q 94 M
Command	BOATS.QRNCVTLG			Q 94 M
Download	BOATS.QRPGLESRC		Insert	
Customize	BOATS.QRPGSRC			
Other	QBLDSYS.CBVTBATS	BVT test case file		
	QBLDSYS.CBVTCQRY	BVT test case file		
	QBLDSYS.CBVTDERI	BVT test case file		
Related Links:	QBLDSYS.CBVTDLO	BVT test case file		
<ul> <li>System i Access for Web</li> </ul>	QBLDSYS.CBVTFORM	BVT test case file		
<ul> <li>System i Access</li> <li>System i Navigator</li> </ul>	QBLDSYS.CBVTGRPD	BVT test case file		
<ul> <li>i5/OS Information</li> </ul>	QBLDSYS.CBVTGRPS	BVT test case file		
Center • System i Resource	QBLDSYS.CBVTJOB			
Center	QBLDSYS.CBVTJOIN			



# **Table Filter**

Used to control the tables displayed in the Tables list

Edit Policies - Database

### **Comma-separated list of**

- schemas
- schema filters
- tables
- table filters

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.

🖿 My Folder						
Print	Profile: JHANSEN					
Messages						
Jobs	Policy	Derived From 😯	Action 😧		Setting	
5250	Database access	Shipped default	Use current setting 🛛 👻	Allow 🗸		•
Database	Database tab	Shipped default	Use current setting 🗸	Show 🗸		0
Files	Tables	Shipped default	Use current setting	Allow 👻		0
Command	Maximum table rows	Shipped default				-
Download	Maximum table rows	Shipped derault	Use current setting 🛛 👻	500		0
Customize	Table filter	Profile setting	Use current setting 🛛 👻	*USRLIBL, BOATS		•
Preferences	Table filter is user	Shipped default	Use current setting 👻	Allow 🗸		0
<ul> <li>Policies</li> </ul>	preference					
• Settings	Insert records into table	Shipped default	Use current setting 🛛 👻	Allow 👻		0
<ul> <li>Transfer configuration</li> </ul>	Insert record columns	Shipped default	Use current setting 🛛 👻	Columns	]	•
Other	Update records in table	Shipped default	Use current setting 🛛 👻	Allow 👻		0
	Update record columns	Shipped default	Use current setting	Columns		0
Related Links:	Quick view table records	Shipped default	Use current setting 🛛 🗸	Allow 🗸		0
<ul> <li>System i Access for Web</li> </ul>	Maximum quick view rows	Shipped default	Use current setting	1000 🗸		0
System i Access     System i Navigator	Order records by relative record number	Shipped default	Use current setting 🗸 🗸	No 🗸		0
<ul> <li>i5/OS Information Center</li> </ul>	Find records in table	Shipped default	Use current setting	Allow 👻		0
System i Resource     Center	Find record columns	Shipped default	Use current setting 🛛 👻	Columns		0

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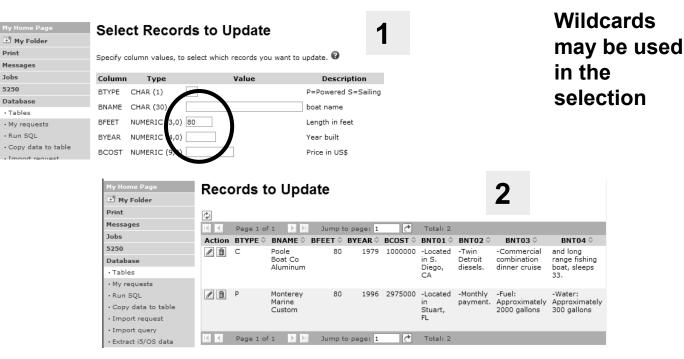
# Tables $\rightarrow$ Find Record

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

My Home Page	Find	Reco	ord							
🕂 My Folder										
Print	Ф									
Messages	K	Page 1 of	1	Jump t	o page: 1	ð	Total: 2			
Jobs	Action	втуре 🗘	BNAME 🗘	BFEET 🗘	BYEAR 🗘	BCOST 🗘	BNT01 🗘	BNT02 🗘	ВNТОЗ 🗘	BNT04 🗘
5250 Database • Tables • My requests	D	С	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.
Run SQL     Copy data to table     Import request     Import query		Ρ	Monterey Marine Custom	80	1996	2975000	-Located in Stuart, FL	-Monthly payment.	-Fuel: Approximately 2000 gallons	-Water: Approximately 300 gallons
• Extract i5/OS data	K	Page 1 of	1	Jump t	o page: 1	Ċ	Total: 2			

## New in V5R4

# Tables $\rightarrow$ Update Function



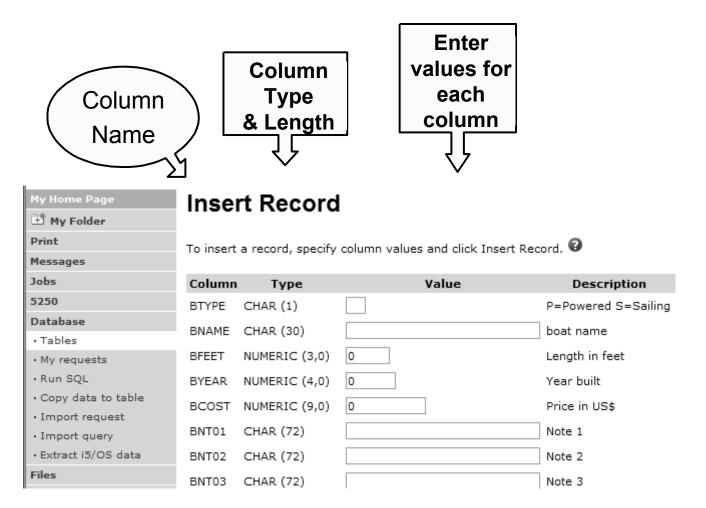
My Home Page	Upda	ate Reco	rd	
Print	To undate	a the record char	nge column values and click Update	Becord 0
Messages	TO upuat	e the record, cha	inge column values and click opdate	
Jobs	Column	Туре	Value	Description
5250	BTYPE	CHAR (1)	С	P=Powered S=Sailing
Database	BNAME	CHAR (30)	Poole Boat Co Aluminum	boat name
• Tables	DIVANE	01/00/		boat name
<ul> <li>My requests</li> </ul>	BFEET	NUMERIC (3,0)	80	Length in feet
• Run SQL	BYEAR	NUMERIC (4,0)	1979	Year built
<ul> <li>Copy data to table</li> </ul>	BCOST	NUMERIC (9,0)	1000000	Price in US\$
<ul> <li>Import request</li> </ul>	00001	NUMERIC (9,0)	1000000	,
• Import query	BNT01	CHAR (72)	-Located in S. Diego, CA	Note 1
• Extract i5/OS data	BNT02	CHAR (72)	-Twin Detroit diesels.	Note 2

•
2
J
-

76



# **Inserting New Records into A Table**

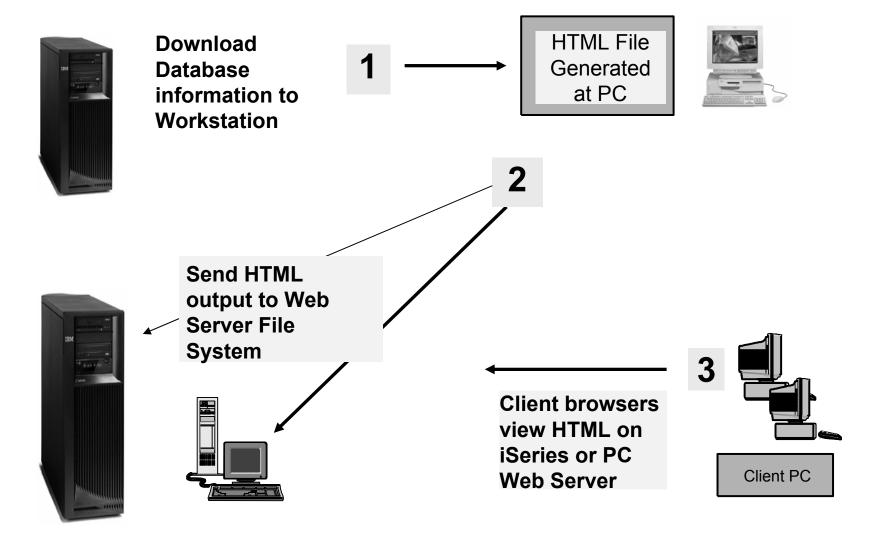




# **Appendix A. HTML Output Types**



## Use HTML File support Updating a Web server





### **HTML Output Settings**

- Many settings from:
- Caption ۲
- Table •
- Cell data ullet

My Home Page	HTML Output Settings	
🕂 My Folder		
Print	Caption	0
Messages	Text:	•
Jobs		
5250	Alignment: Browser default 🗸	
Database	Font size: Browser default 💟	
• Tables	Style: Bold Italic Fixed width Underline	
• My requests		
• Run SQL	Table	0
<ul> <li>Copy data to table</li> </ul>	Alignment: Browser default V	•
<ul> <li>Import request</li> </ul>		
<ul> <li>Import query</li> </ul>	Rows per table:	
• Extract i5/OS data	Table width: % of window 👻	
Files	Border width: pixels	
Command	Cell spacing between cells: pixels	
Download	Cell padding within cells: pixels	
Customize		
Other		
	✓ Include column headings Heading Settings	
Related Links:	Template	ด
<ul> <li>System i Access for</li> </ul>	File: Browse	•
• System i Access		
<ul> <li>System i Navigator</li> <li>i5/OS Information</li> </ul>	Tag: TABLE1	
· System i Resource	General	0
Center	Character set: Western [ISO-8859-1]	
	Maximum rows:	
	OK Cancel	

ΞŤΝ Print Mess Jobs 5250 Data • Tal



## **Displaying output in a paged list**

### iSeries Access for Web (continued)

• Run SQL	Table	
<ul> <li>Copy data to table</li> </ul>		
• Import request	Alignment:	Browser default ⊻
• Import query	Rows per table:	15
• Extract i5/OS data	Table width:	
Files	Border width:	
Command	Cell spacing between cells:	
Download	Cell padding within cells:	
Customize	. 2	
Other	Cell data:	Data Settings
	🗹 Include column headings	Heading Settings

Specify a value for 'Rows per table' to limit the number of rows displayed on a page

My Home Page	SQL Output
🗄 My Folder	ode output

Print

Messages Jobs 5250 Database • Tables • My reques

• Run SQL • Copy data

• Import re • Import qu

• Extract i5, Files Command Download Customize Other 

	BCOST	втүре	BNAME	BFEET	BYEAR
	100000000	А	Hangar	20	1940
	100000000	A	Spandau1	72	2000
	100000000	A	MOLSLINIEN	300	1999
	100000000	А	Spandau	720	1999
sts	1000000	С	Poole Boat Co Aluminum	80	1979
	13000	P	Mako Sportfisher	19	1989
a to table	23900	P	Carver Santa Cruz	28	1978
quest	55000	P	Monk Flybridge/Sedan	34	1985
	19900	P	Monk Bridgedeck Cruiser	36	1956
Jery	2975000	P	Monterey Marine Custom	80	1996
/OS data	100000000	P	Katemeran	200	1995
	69950	s	Corsair 27	27	1994
	57900	S	Hunter 33.5	33	1990
	27500	s	Bill Garden Schooner	36	1953
	179500	s	Fountaine Pajot Antigua	37	1993
	.    ≪     [1	1]2 ▶	⊳ H Q		

### **Contrasting other layouts**

				Custo	mer Info	rmatic
CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPC
938472	Henning	G K	4859 Elm Ave	Dallas	TX	7521
839283	Jones	ВD	21B NW 135 St	Clay	NY	1304
392859	Vine	S S	PO Box 79	Broton	VT	5046
938485	Johnson	JΑ	3 Alpine Way	Helen	GA	3054
397267	Tyron	WΕ	13 Myrtle Dr	Hector	NY	1484
389572	Stevens	ΚL	208 Snow Pass	Denver	CO	8022
846283	Alison	JS	787 Lake Dr	Isle	MN	5634
475938	Doe	JW	59 Archer Rd	Sutter	CA	9568
693829	Thomas	ΑN	3 Dove Circle	Casper	WY	8260
593029	Williams	ΕD	485 SE 2 Ave	Dallas	TX	7521
192837	Lee	FL	5963 Oak St	Hector	NY	1484
583990	Abraham	МT	392 Mill St	Isle	MN	5634

If you do not specify a value for 'Rows per table', all results are returned in a single page

**Preview output type** displays a limited number of rows per page, but you can't customize how the list is displayed

#### SQL Output

y Home Page

🛨 My Folder

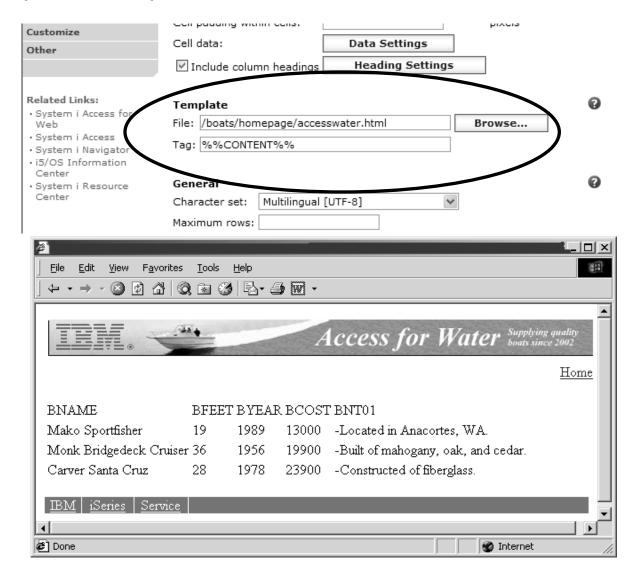
Print	Ф						
Messages		ge 1 of 3		Jump to pa	ge: 1	ð -	Total: 12
Jobs	CUSNUM 🗘	LSTNAM 🗘	INIT 🗘	STREET 🗘	CITY 🗘	STATE 🗘	ZIPCOD 🗘
5250	938472	Henning	GК	4859 Elm	Dallas	ТΧ	75217
Database				Ave			
• Tables	839283	Jones	ВD	21B NW 135 St	Clay	NY	13041
• My requests • Run SQL	392859	Vine	SS	PO Box 79	Broton	VT	5046
Copy data to table     Import request	938485	Johnson	JA	3 Alpine Way	Helen	GA	30545
Import query	397267	Tyron	WE	13 Myrtle Dr	Hector	NY	14841
• Extract i5/OS data	Pag	ge 1 of 3		Jump to pa	ge: 1	<u>ð</u>	Total: 12



### iSeries Access for Web (continued)

A template file can be used to display custom content before and after the statement results

The template file must have previously been placed in the Integrated File System (IFS) on the iSeries server





### **Example of template file**

```
<HTML>
<BODY>
<img SRC="boathead.gif" height=43 width=614>
<a href="/webaccess/iWAHome">Home</a>
 <br>
%%CONTENT%%
<br>
<BODY>
</HTML>
```



# Appendix B: Comparisons: Similarities / Differences

- System i Access for Web
- System i Access for Windows





## **Supported File Formats**

Supported file formats	System i Access for Web Database (servlets)	System i 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	No	Yes
ASCII Text	Yes	Yes
<ul> <li>Text – Tab delimited</li> </ul>	Yes	Yes
Text - Delimited	Yes	No
Basic Random	No	Yes
Basic Sequential	No	Yes
DOS Random	No	Yes
DOS Random Type 2	No	Yes



## Supported File Formats (continued)

Supported file formats	System i Access for Web Database (servlets)	System i Access for Windows Data Transfer
Preview (on downloads)	Yes	Yes
Portable Document Format	Yes	No
(PDF) (on downloads)		(can send to PC printer by selecting 'Print' as output device)
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



# **Comparison of Database Capabilities**

Feature / Function	System i Access for Windows	System i Access for Web	System i 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 – Limited support using java.net.URL and the documented URL Interfaces	Yes No	No Yes	No No



### Comparison of Data Transfer and Access for Web Database

Feature / Function	System i Access for Windows	System i Access for Web
<ul> <li>All SQL Statements Supported</li> <li>Wizards to build SELECT statements and convert to PC format</li> </ul>	Yes Yes	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
<ul> <li>Wizards to upload PC data to iSeries DB2</li> <li>Support for Source Physical Files</li> </ul>	Yes Yes (sequence and data generated on uploads is not returned by default)	Yes No (treated the same as other Table Values)
<ul> <li>Upload data directly from Excel</li> <li>Excel dates/times handled as dates/times</li> </ul>	Yes Yes	No Yes
<ul> <li>Can run predefined saved requests</li> <li>Schedule requests to run silently</li> <li>Can Share requests amongst users</li> <li>Can run multiple requests simultaneously (batch)</li> </ul>	Yes Yes No, put on shared drive Yes (RTOPCB, RFROMPCB)	Yes No Yes, via Shortcuts No
Asynchronous Processing (ie, control returned before request completes)	No	Yes (except for Browser option)



# **Request Types**

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



# **Microsoft Excel Support**

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. For System i 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. System i Access for Windows enables you to work with large amounts of rows using BIFF5, BIFF7, BIFF8 file types.

Supported file formats	System i Access for Web Database (servlets)	System i 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





# **Overall Strengths – database function**

System i 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

System i Access for Web

Database

- Runs on an i5/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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