



Session: 409160

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iSeries Access for Web: Database Access

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iSeries Access for Web Development

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Session title: iSeries Access for Web: Database
Access

Session ID: 409160

Agenda Key: 46CK

Speaker: Warren Acker

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Agenda

- iSeries Access for Web Overview
- Database Overview
- End user/Administrator tasks
- Extract Server Data
- Working with SQL Tables
- Copying data to the iSeries
- Run SQL and the SQL Wizard
- SQL output types and options
- Output destinations
- Importing Client Access Data Transfer requests
- Managing saved requests
- Support for WebSphere Portal Server
- Summary
- Questions

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iSeries Access for Web Overview

iSeries Access for Web is software that runs on the iSeries server. It provides access to various iSeries functions through a browser and provides a user-centric, web-based view of iSeries or AS/400 applications and information. No software required to be installed on the client, other than a web browser.

iSeries Access for Web functions include:

- *Printers* - printer output viewing, printers, shared printers, and output queues
- *Messages* - user messages, message queues, send messages
- *Jobs* - work with jobs and server jobs
- *5250* user interface
- *Database* - run SQL statements, work with tables, upload data, manage frequently run requests, extract server object information
- *Files* - work with files in the iSeries integrated file system or within NetServer file shares, upload files to the integrated file system or a NetServer share.
- *Command* - run iSeries commands from the browser.

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iSeries Access for Web Overview

To get hands on information about iSeries Access for Web functionality, attend or get the materials for:

Sessions 35LA-36LA: OPEN LAB:iSeries Access for Web

Or

Visit the iSeries Access for Web Page.

<http://www.ibm.com/servers/eserver/iseries/access/web/>

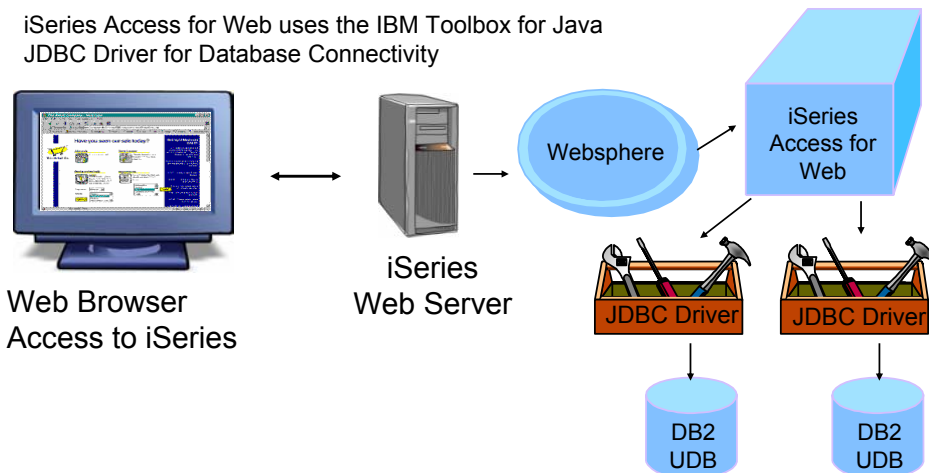
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Database Overview

iSeries Access for Web uses the IBM Toolbox for Java
JDBC Driver for Database Connectivity

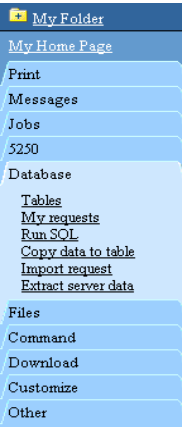


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iSeries Access for Web - Database Functions



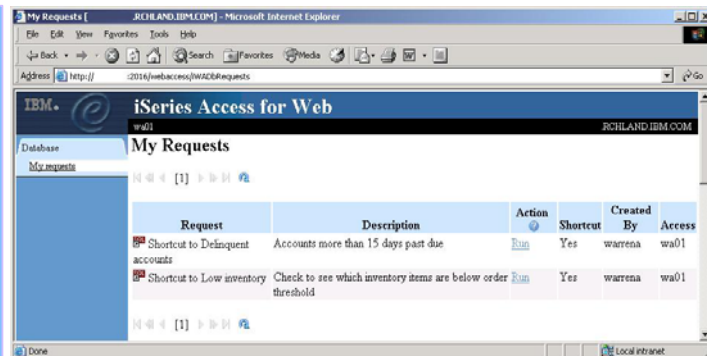
iSeries Access for Web has a very robust set of capabilities for working with DB2 UDB on the iSeries

- Tables - view, update, insert records into, or delete records from SQL tables.
- My Requests - run, copy, delete, rename saved requests, or create and manage shortcuts.
- Run SQL - run a SQL statement. The SQL wizard may be used to help create a SELECT statement.
- Copy data to table - Copy data from a workstation file to a DB2 table on the iSeries.
- Import request - Import an iSeries Access for Windows/Client Access Data Transfer request profile.
- Extract server data – Allows for mining of OS/400 object data



What an End User Can Do

Users can be given only the minimum amount of function necessary to perform their job





What an Administrator Can Do

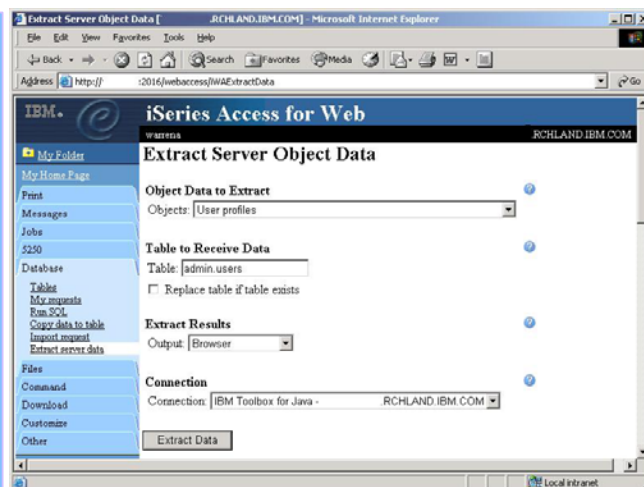
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Extract Server Data

Extract OS400 object information into a database table or tables. Then use Tables or Run SQL functions to retrieve relevant data.



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Adminstration Tasks for Tables



Working with Tables

The screenshot shows the IBM iSeries Access for Web interface in a Microsoft Internet Explorer browser window. The page title is "Tables". The interface includes a navigation menu on the left with options like Print, Messages, Jobs, Database, Files, Command, Customize, and Other. The main content area displays connection information: "Connection: IBM Toolbox for Java - RCHASD8B.RCHLAND.IBM.COM" and "Table filter: WADEMO". Below this is a table with columns "Table", "Description", and "Action". The table lists "WADEMO.PARTS" with actions: "Insert", "Update", "Quick view", "Run SQL", and "Copy data to table". A "Database Preferences" link is also visible. Three blue callout boxes with arrows point to specific elements: "Connection Info & Table filter" points to the connection and filter text; "Database preferences" points to the "Database Preferences" link; and "Table actions" points to the action links in the table.

Table	Description	Action
WADEMO.PARTS		Insert Update Quick view Run SQL Copy data to table

Table Filter

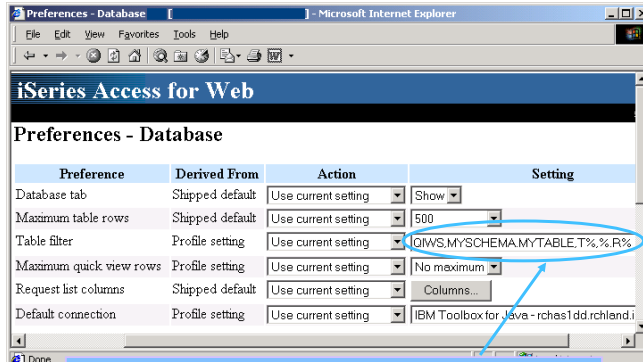
Used to control the tables displayed in the Tables list

Comma-separated list of

- schemas
- schema filters
- tables
- table filters

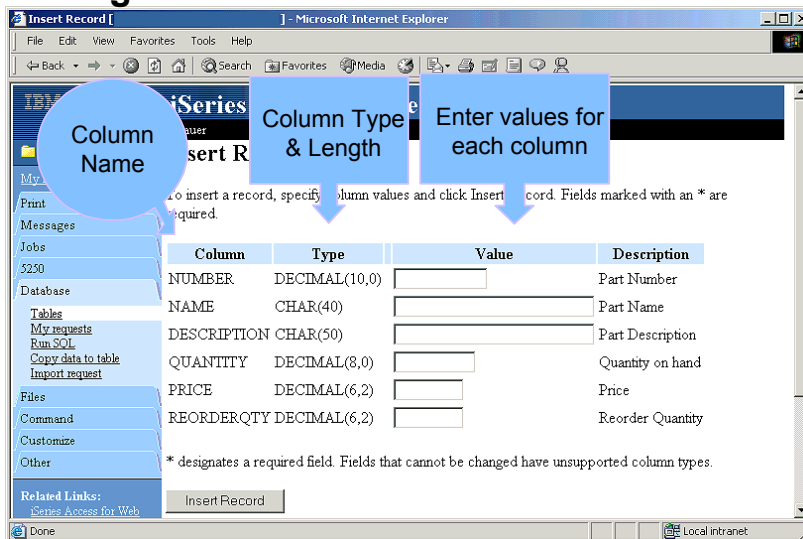
The % character is used as a wild card character.

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



QIWS,MYSCHEMA.MYTABLE,T%,%R%
 All tables in QIWS, the table MYSCHEMA.MYTABLE, all tables in schemas beginning with T, and all tables beginning with R.

Inserting New Records into A Table



Updating or Deleting Existing Records

The first step to update or delete records from a table is to select a range of records to update. Wildcards may be used in the selection.

Update

Select records to update - specific column value

You can enter values for one or more columns to restrict the number of items returned in the list

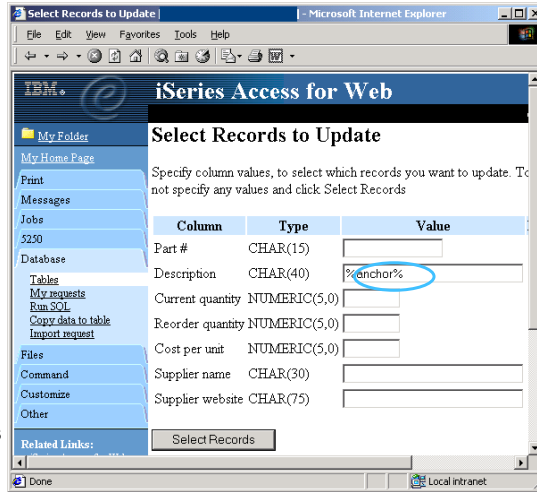
Only records with matching column values are returned in the list

Update

Select records to update - columns containing text

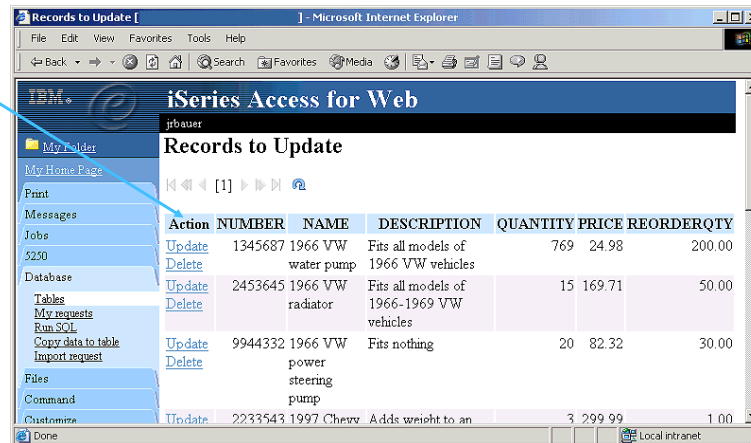
For character fields, % can be used as a wildcard character

- Use A% to find all column values starting with A
- Use %A to find all column values ending with A
- Use %A% to find all column values containing A



Updating and Deleting Records

The Action links allow you to either update or delete a record



Updating a Record

With the update function column values for a record may be updated

Modify the current column values

Column	Type	Value	Description
NUMBER	DECIMAL(10,0)	1345687	Part Number
NAME	CHAR(40)	1966 VW water pump	Part Name
DESCRIPTION	CHAR(50)	Fits all models of 1966 VW vehicle	Part Description
QUANTITY	DECIMAL(8,0)	769	Quantity on hand
PRICE	DECIMAL(6,2)	24.98	Price
REORDERQTY	DECIMAL(6,2)	200.00	Reorder Quantity

* designates a required field. Fields that cannot be changed have unsupported column types.

Update Record

Deleting a Record

The Delete Record function requires you to verify the record you chose to delete

Confirm Delete Record

This will delete all records that match these column values.

Table: WADEMO.PARTS

NUMBER	=	1345687
NAME	=	1966 VW water pump
DESCRIPTION	=	Fits all models of 1966 VW vehicles
QUANTITY	=	769
PRICE	=	24.98
REORDERQTY	=	200.00

Delete Record

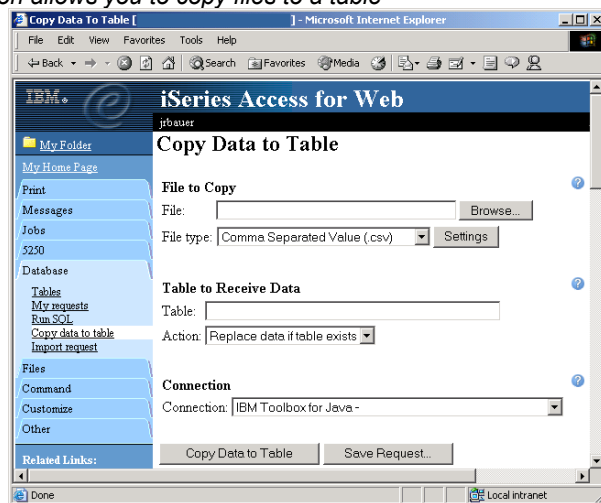
Copying Data to the iSeries

Copying Data to the iSeries

Copy data to table function allows you to copy files to a table

Specify:

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

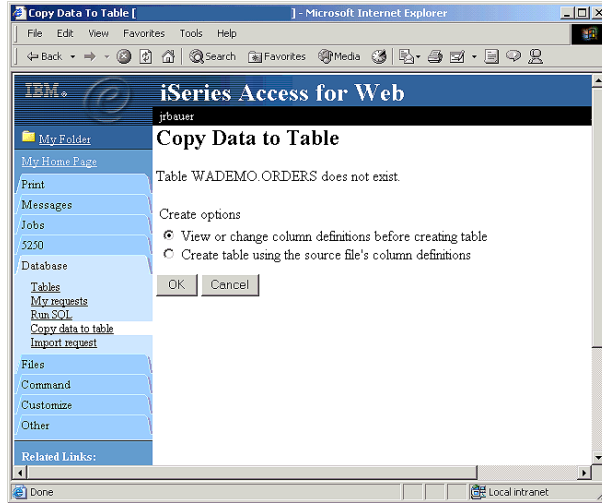




Copying Data to the iSeries: Creating a new table

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 iSeries Access for Web



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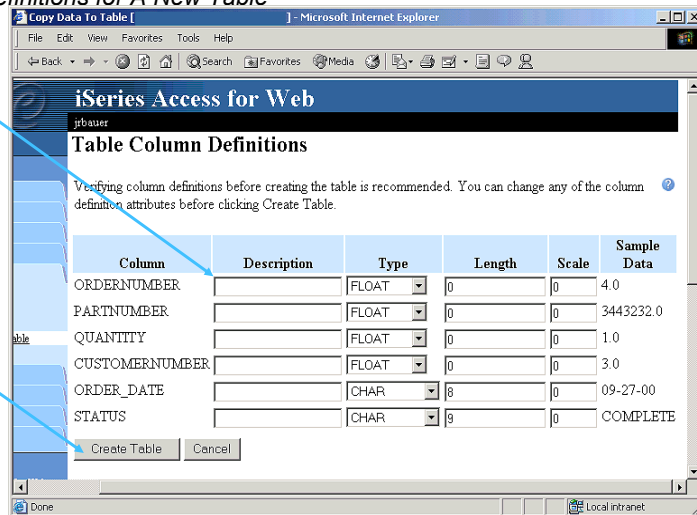


Copying Data to the iSeries: Creating a new table

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



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Copy Data to Table

Notes and Restrictions

- Data within a column needs to be the same type. This means a column that contains numeric data should only contain numeric data.
- Only first sheet of data is supported when using Microsoft Excel and Lotus spreadsheets
- Date/Time columns must be in a string format. Excel and Lotus date and time formats are not supported.
- Not all file types supported by Run SQL can be used for Copy Data To Table
- A saved Copy Data To Table request will always ask you to enter the name of the workstation file to copy the data from. This is done for security of your workstation data.



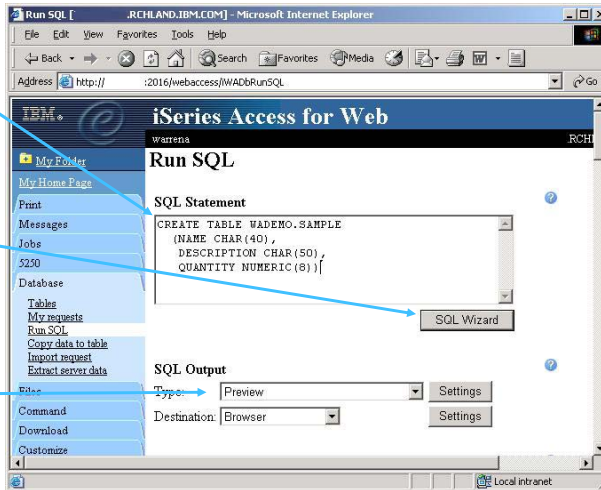
Run SQL and the SQL Wizard

Run SQL

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

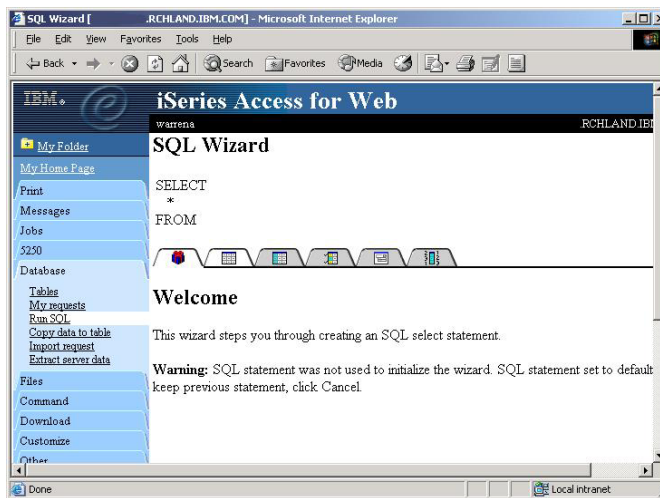
The SQL Wizard can help you generate a SQL SELECT statement

If your statement produces a result set you can select one of many output formats



The SQL Wizard

The SQL Wizard helps you generate a single table SELECT statement

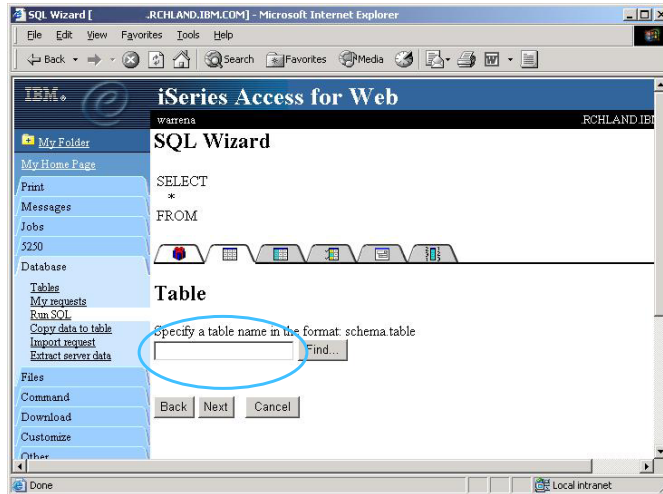




The SQL Wizard: Creating a Select Statement

Step 1: Choose a table

Type in or find the table from which to select records



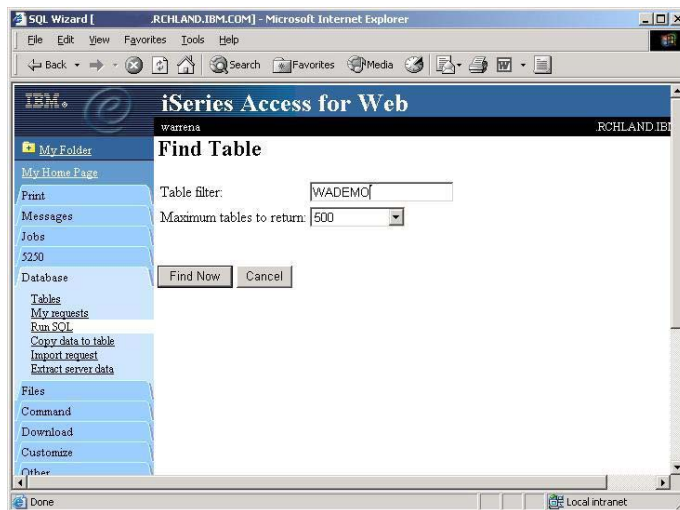
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The SQL Wizard: Specify a table filter

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

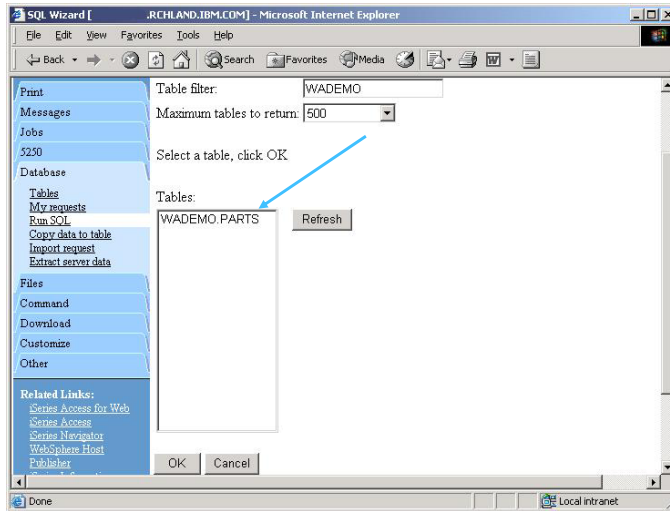


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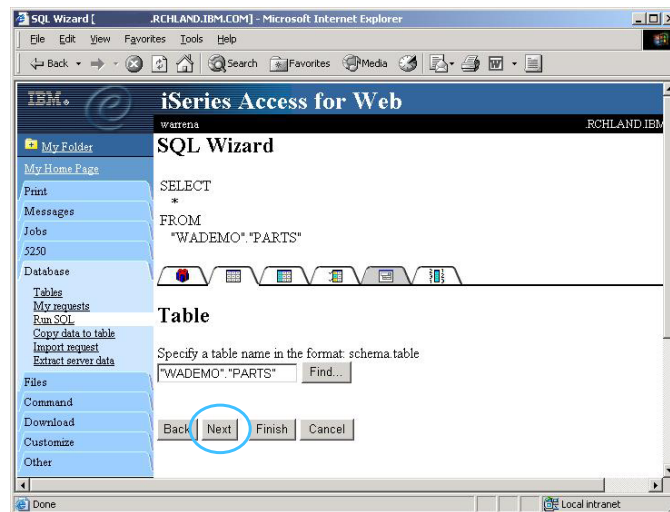
The SQL Wizard: Select a table from the search

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



The SQL Wizard: Going to step 2

Click Next button to select columns or click Finish to select all columns from the table



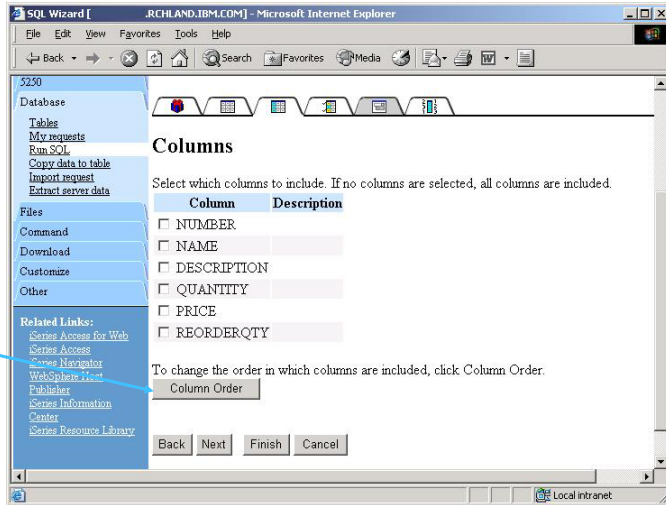


The SQL Wizard: Choosing columns for output

Step 2: Choosing columns

Check the boxes next to the columns to include them in the statement

Click the column order button to change the order of columns in the output



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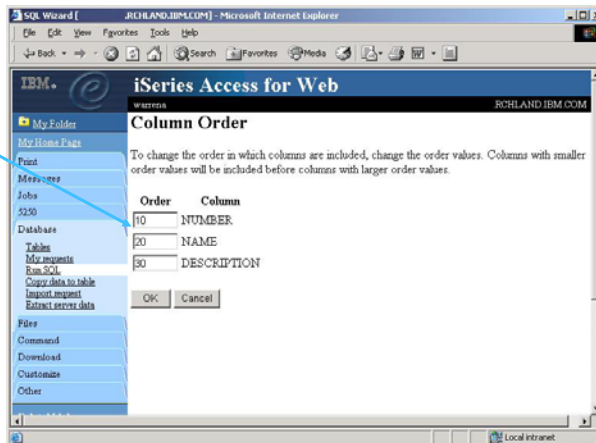
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The SQL Wizard: Choosing columns for output

Step 3: Ordering columns

Order columns by specifying a sequence number

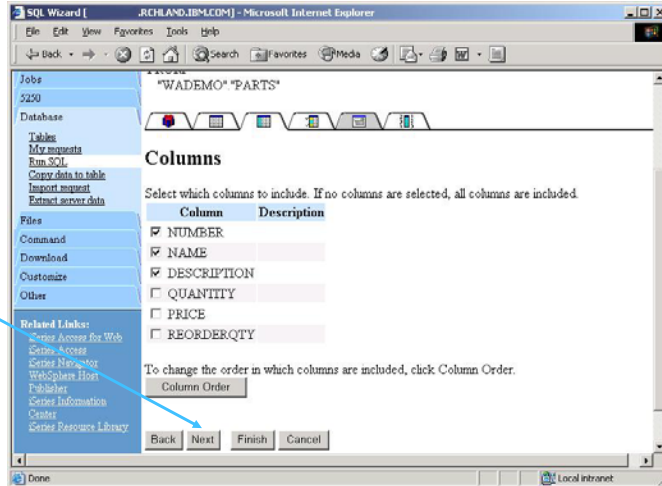


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The SQL Wizard: Going to step 4

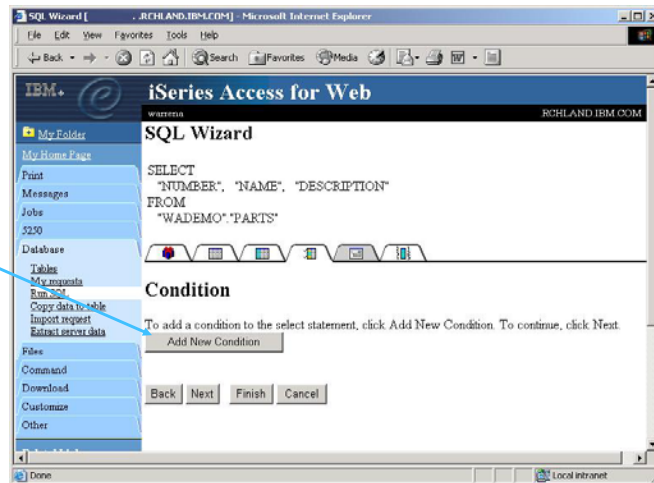
After columns and the column order has been chosen, select **Next** to specify conditions on the columns or **Finish** to return to Run SQL



The SQL Wizard: Specify Conditions

Step 4: Adding conditions

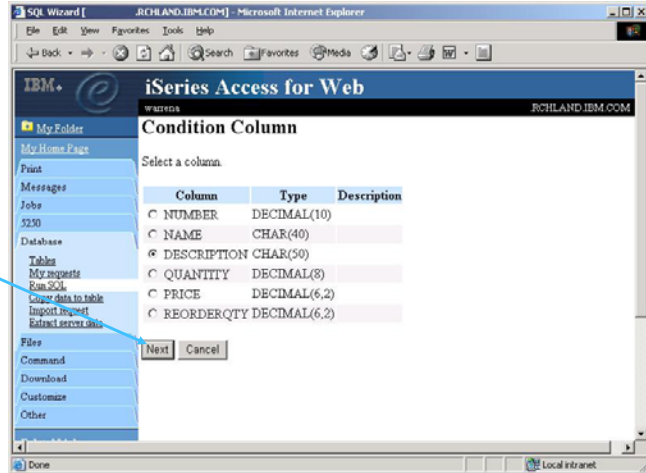
Conditions allow you to select records that meet certain criteria. Click Add New Condition to specify a condition.





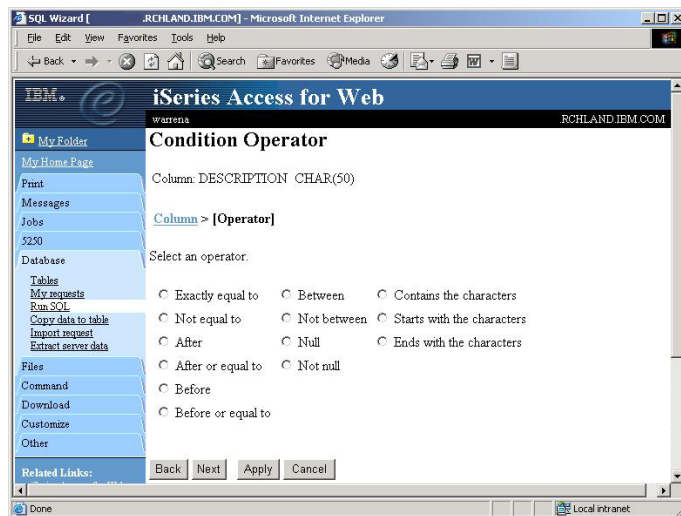
The SQL Wizard: Specify a conditional column

Select the column to use in the condition and click Next



The SQL Wizard: Choosing the operator type

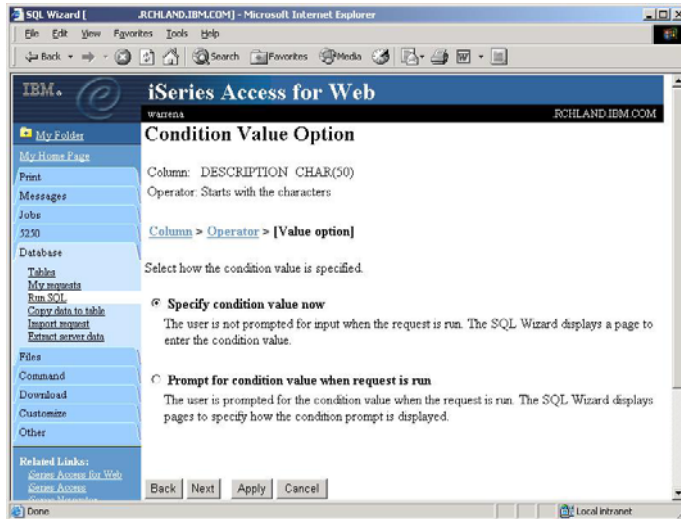
The SQL wizard allows you to choose the operator to use in the condition





The SQL Wizard: Choosing static versus dynamic

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



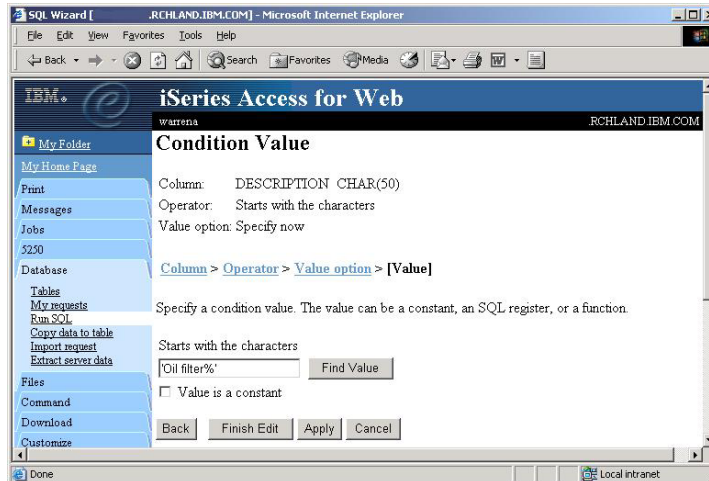
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The SQL Wizard: Specifying a static value

The SQL wizard allows you to specify the value for the condition. The value can be a value, constant or other specific function.

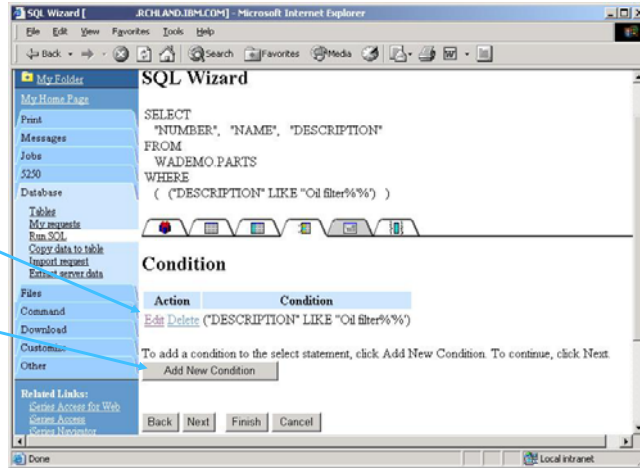


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The SQL Wizard: The condition is created

The condition shows up both in the SQL and in a condition list. You may edit or delete the condition. You may also add additional conditions.

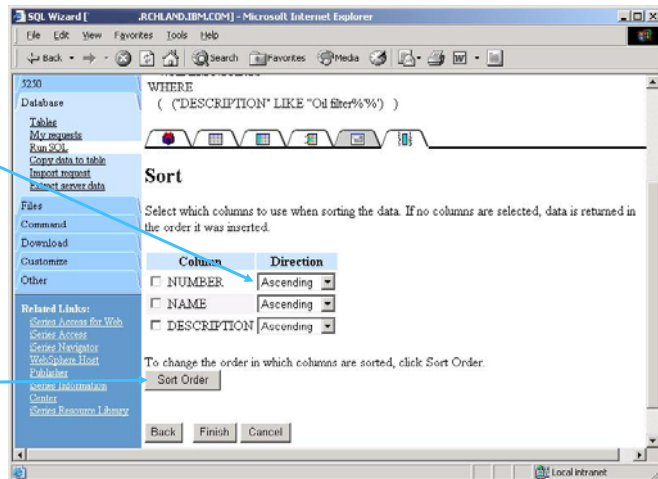


The SQL Wizard: Creating a Select Statement

Step 5: Sorting records

Choose the columns to be used in the sort. Also select ascending or descending order

Click the Sort Order button to change the priority of the columns used in the sort

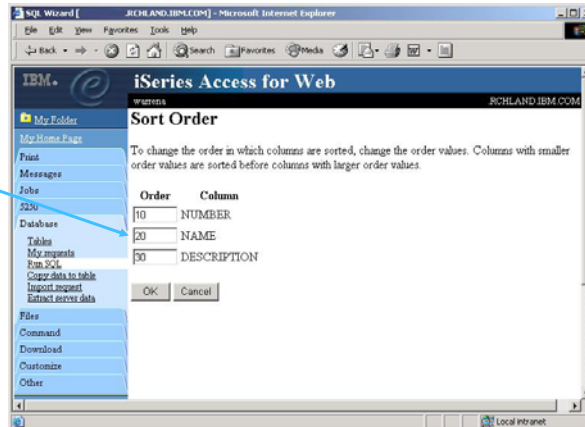




The SQL Wizard: Specify sort order

Step 6: Choosing the sort order

Create a sort order by specifying a sequence number for each column



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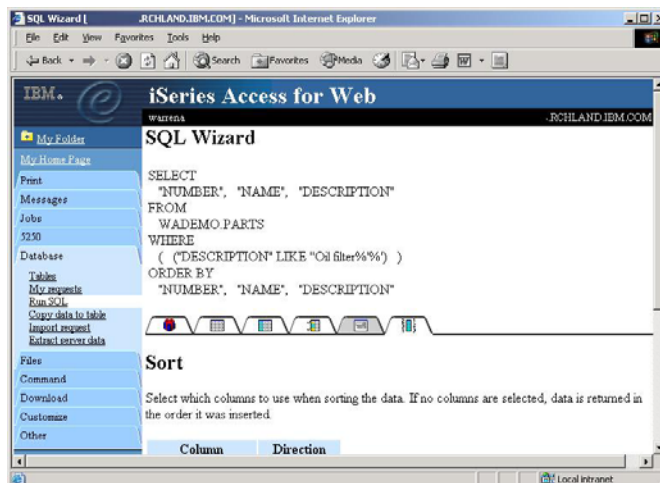
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The SQL Wizard: The statement is complete!

Step 7: Finishing up

The statement is now complete. Click the Finish button (not shown) on the bottom of the SQL Wizard page to return to Run SQL



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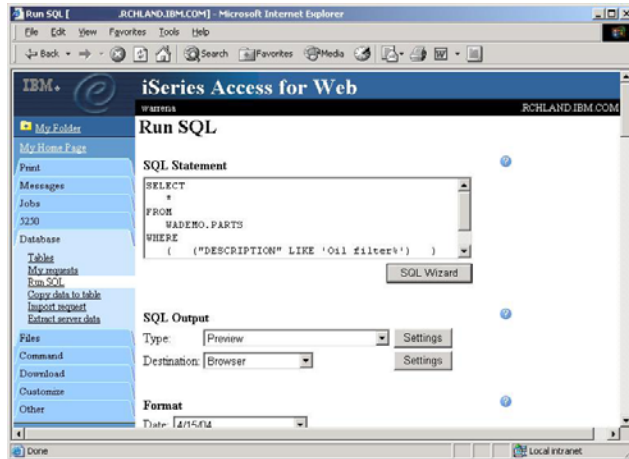


The SQL Wizard: Creating a Select Statement

Step 8: Returning to Run SQL

The SELECT statement you generated is available for use in Run SQL

Statements generated by the wizard may be run immediately through Run SQL or saved into a request in My requests for later use.



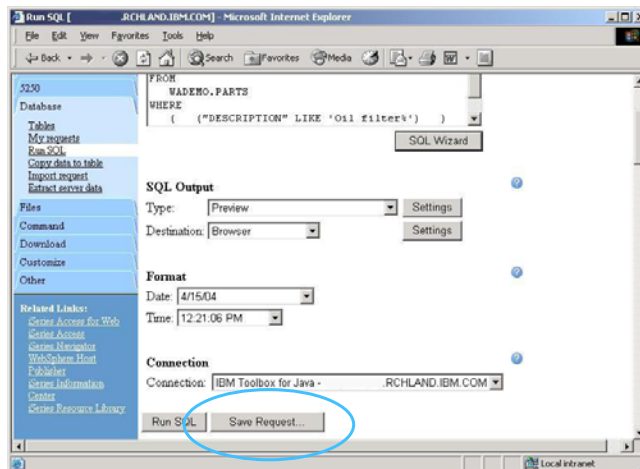
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Run SQL: Saving a SQL Request

After creating a statement, by hand or with the Wizard you also have the option to store the statement for later use



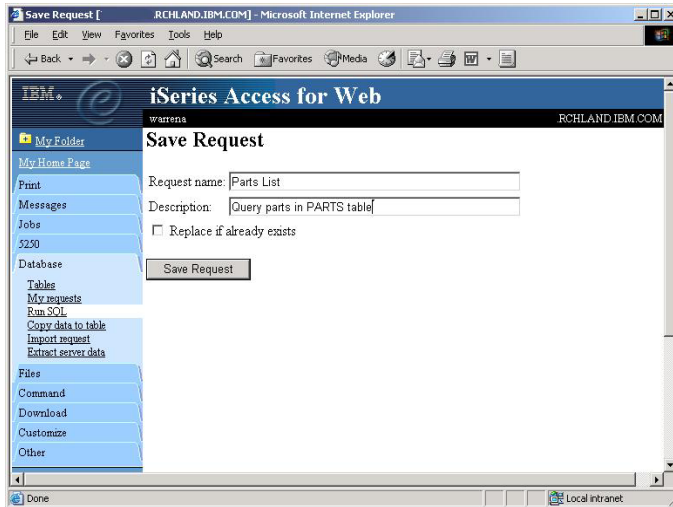
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Run SQL: Saving a SQL Request

Type in the request name and a description to save the SQL request. Choose 'Replace if already exists' to replace an existing request of the same name



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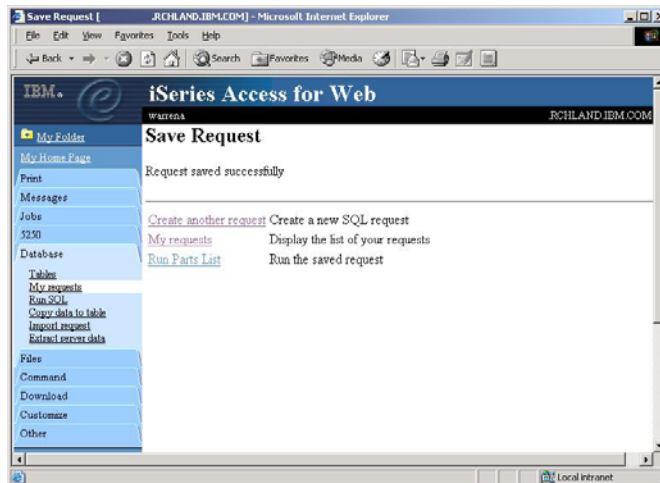
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Run SQL: Saving a SQL Request

Quickly running a saved request

After saving the request you will be given a link to run the request. The request will also show up in your **My Requests** list



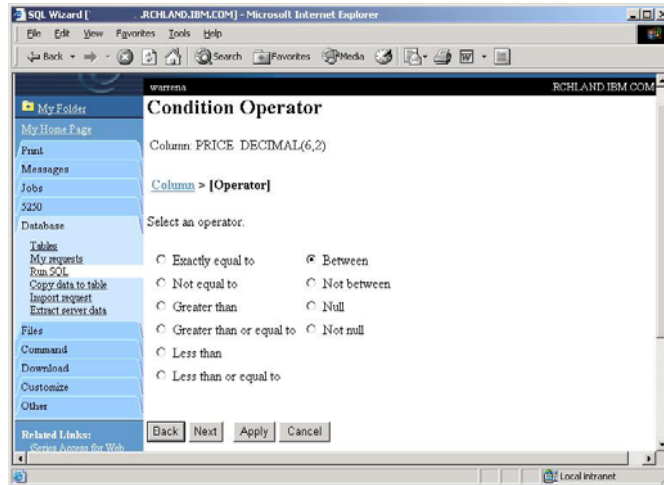
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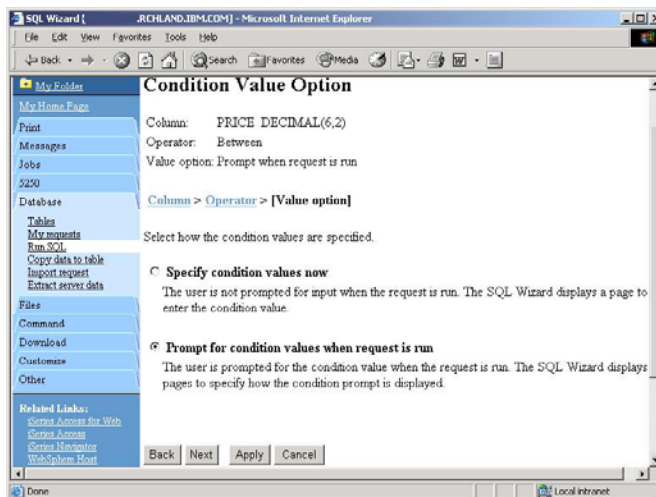
Going back... The SQL Wizard: Dynamic query

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



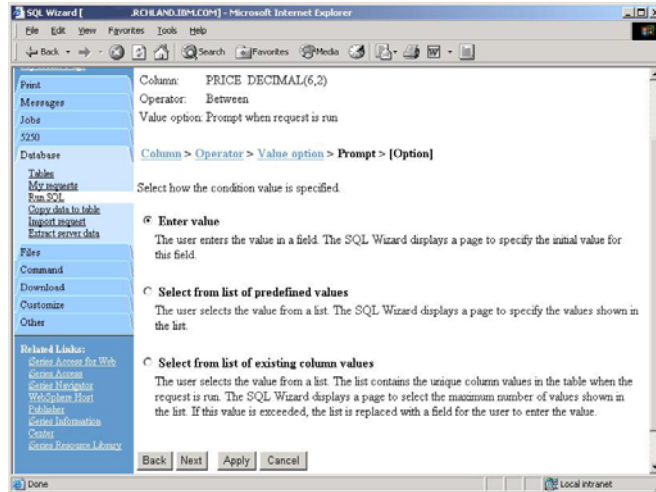
SQL Wizard: Dynamic query – condition value

Select to prompt for values when the request is run



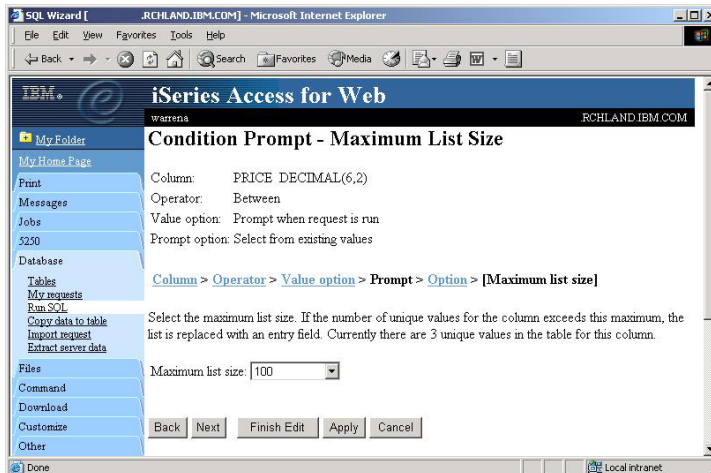
SQL Wizard: Dynamic query – prompt type

Select how the user will be prompted for the values



SQL Wizard: Dynamic query – list size

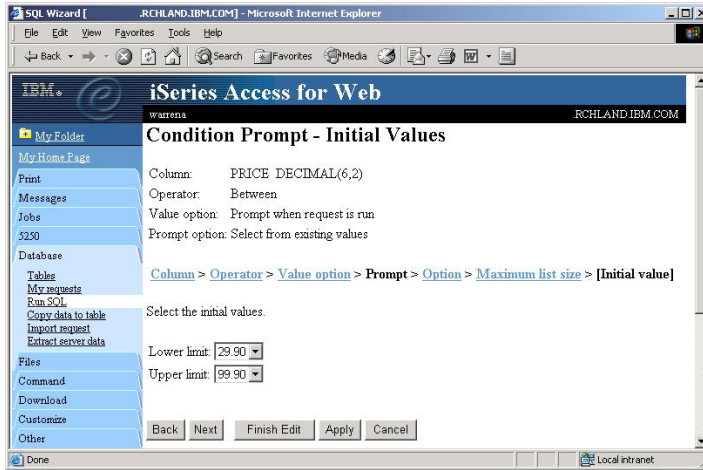
Choose the maximum number of unique values that are listed when using the existing values option





SQL Wizard: Dynamic query – initial values

Select the initial values to be displayed on the form



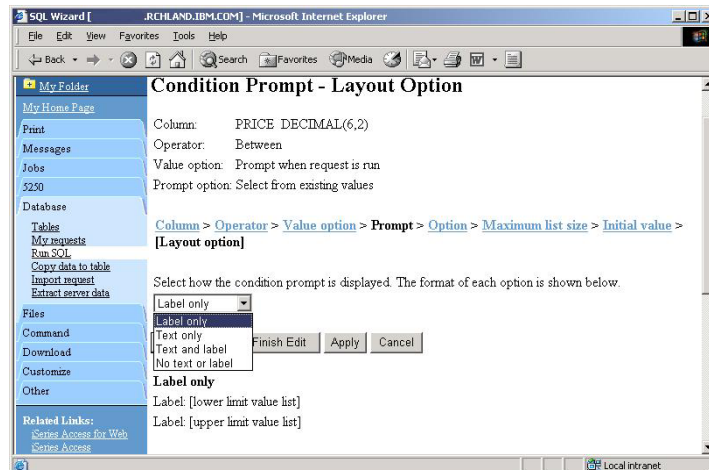
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SQL Wizard: Dynamic query – prompt text layout

Select the layout of the description text used for each condition



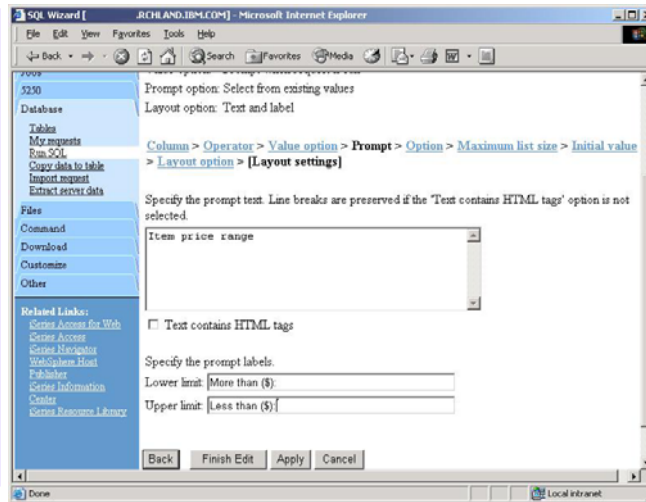
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SQL Wizard: Dynamic query – prompt text

Specify the text description used for each condition



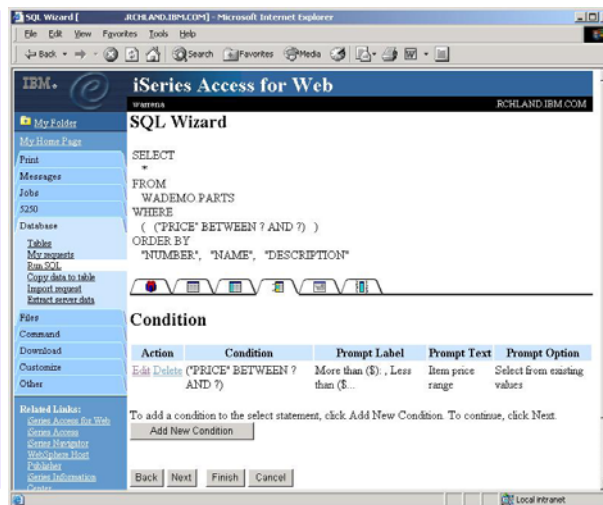
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SQL Wizard: Dynamic query – condition view

Completed a dynamic condition



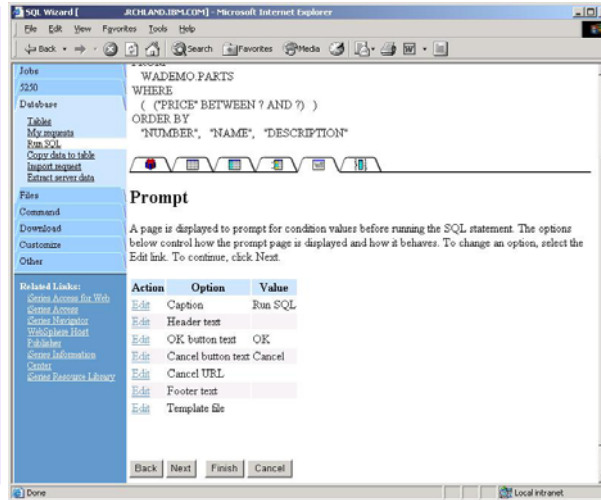
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SQL Wizard: Dynamic query – prompt page

Specify the text to be used for the configurable items displayed on the prompting page



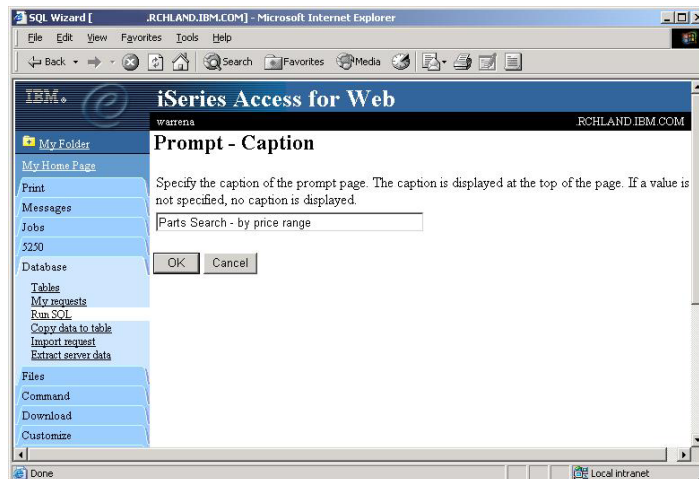
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SQL Wizard: Dynamic query – prompt page caption

Specify the text to be used for the caption of the prompt page



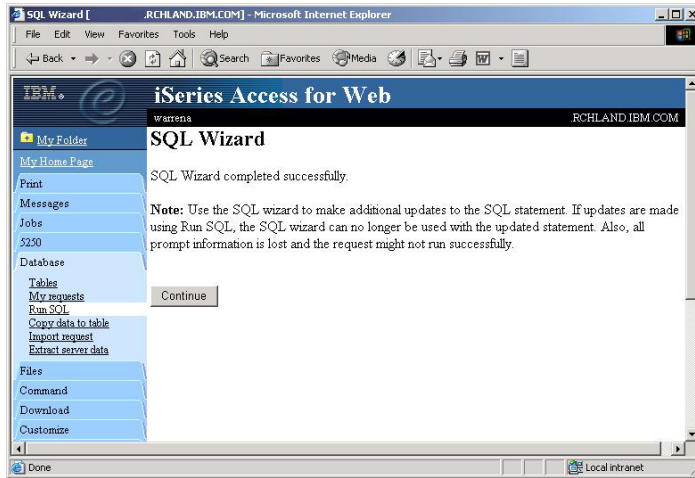
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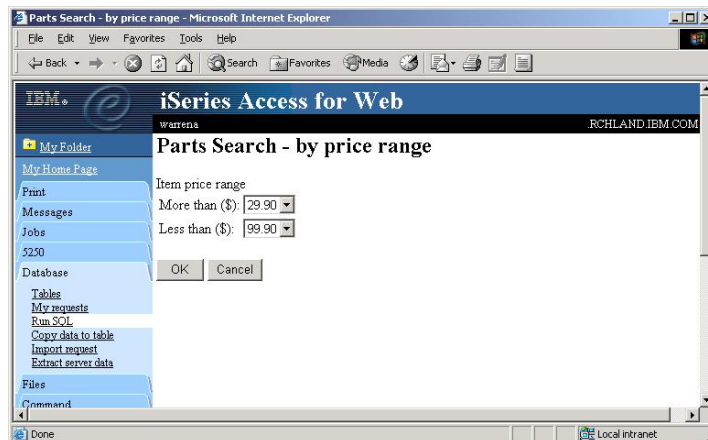


SQL Wizard: Dynamic query – wizard warning

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



SQL Wizard: Dynamic query example



SQL Wizard: Dynamic query results

The screenshot shows a web browser window titled "SQL Output" with the URL ".RCHLAND.IBM.COM". The page displays a table of query results with the following data:

NUMBER	NAME	DESCRIPTION	QUANTITY	PRICE	REORDERQTY
1054922	Oil filter-41LM	Filter for McClaren F1 LM	24	99.90	20.00
1054925	Oil filter-41FT	Filter for Ferrari Testarosa	18	79.90	20.00
1054928	Oil filter-41CV	Filter for Chevrolet Corvette Z06	5	29.90	20.00

Dynamic Query

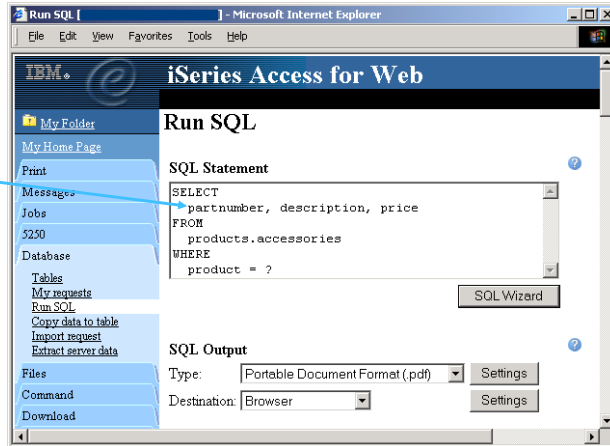
Advanced support

- Type prompted statement manually using Run SQL
 - SELECT * FROM QIWS.QCUSTCDT WHERE LSTNAM = ?
- No SQL wizard support
- Must save the request. Cannot run dynamically using Run SQL.
- Must pass values for each prompt (parameter marker) when request is run. Parameter name for first prompt must be iwaparm_1, parameter name for second prompt must be iwaparm_2 ... For example:
 - Form with input form elements named iwaparm_1, iwaparm_2, ...
 - Bookmark with URL parameters named iwaparm_1, iwaparm_2, ...
- Provides more flexibility on how the prompted values are specified compared to the SQL wizard approach

Dynamic Query

Enter SQL statement

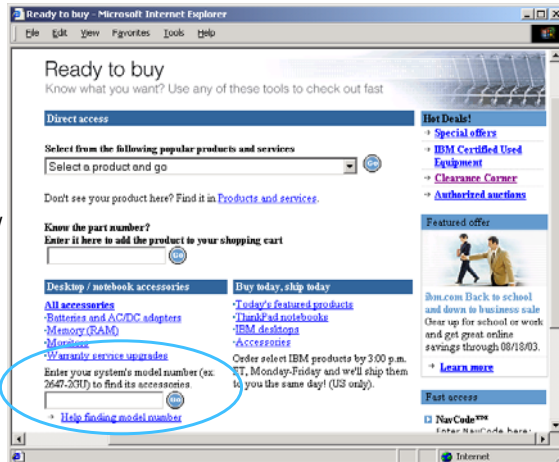
SQL statement with parameter markers entered directly into Run SQL



Dynamic Query

Form example

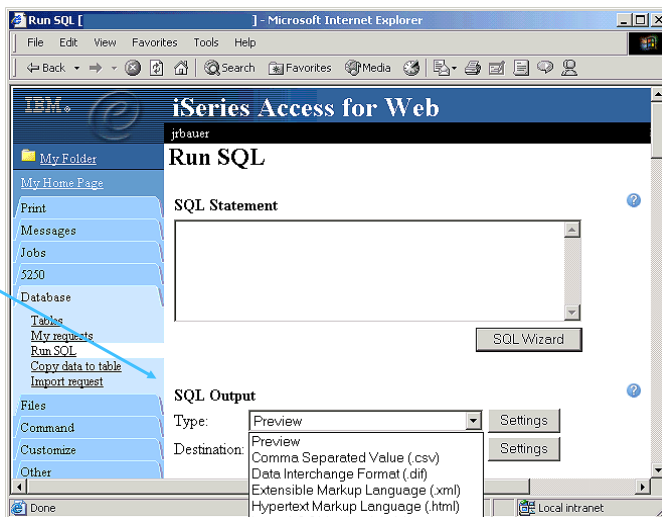
- Want to use different button style
- Want button next to prompt control, not underneath it
- Form element:
<FORM name=accessories action="http://server/webaccess/iWADbExec" method="get">
- Hidden element:
<input type="hidden" name="request" value="req" />
- Entry field:
<input type="text" name="iwaparm_1" value="" />



SQL Output Types and Options

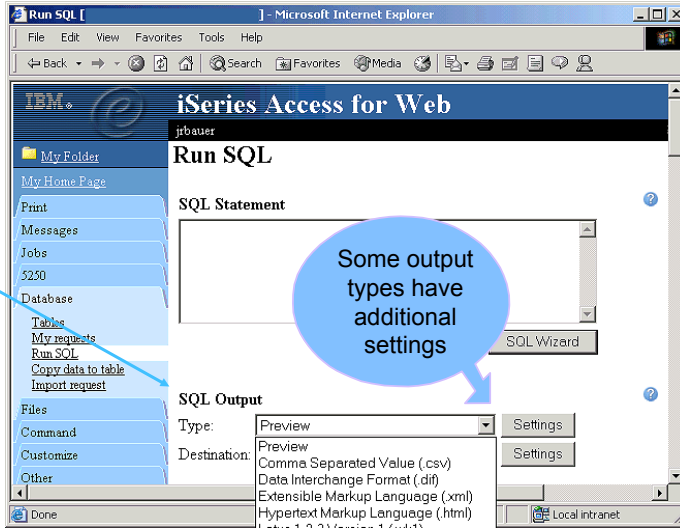
SQL Output Types

Results generated by statements may be returned directly to the browser page in an HTML format defined by iSeries Access for Web. To do this, select the Preview option.



SQL Output Types

Results generated by statements may also be returned in many different output file types, including Plain Text, CSV, BIFF3, BIFF 4, Excel XML, DIF, HTML, Tab Delimited Text, WK1, XML, and PDF



SQL Output Types

Type	Description	Applications	Notes
Preview	HTML paged-table list format	Browser	Cannot mail or send to folder, can limit number or rows returned, *note
Hyper Text Markup Language (*.html)	Format commonly used by internet browsers	Browser	Formatting preserved if import into Excel, *note
Microsoft Excel 3 Microsoft Excel 4 (*.xls)	Binary Interchange File Format	Microsoft Excel 3 and later	Returns up to 16384 rows, can be used with newer versions of Excel
Portable Document Format (*.pdf)	Printer-friendly format	Adobe Acrobat	Preserves all fonts, formatting, graphics, and color, *note
Extensible Markup Language (*.xml)	Universal format for structured documents and data on the Web	XML parsers, newer versions of IE and Netscape browsers	*note

*note = supports unicode data



SQL Output Types (cont.)

Type	Description	Applications	Notes
Lotus 1-2-3 Version 1 (*.wk1)	Format used by Lotus 1-2-3 Version 1	Lotus 1-2-3 Version 1 and later	Returns up to 8192 rows, can be used with newer versions of Lotus 1-2-3
Comma Separated Value (*.csv)	Text format where fields are separated by commas	Supported by a wide variety of applications including Excel and 1-2-3	Numbers of rows returned not limited
Data Interchange Format (*.dif)	Format that represents data in rows and columns	Used for data interchange between spreadsheet programs and other applications	The original Lotus 1-2-3 format!
Text - Plain (*.txt)	Plain text format for editing, displaying and printing	Text editors	No separator characters placed between the fields of data

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SQL Output Types (cont.)

Type	Description	Applications	Notes
Text – Tab Delimited (*.txt)	Text format where fields are separated by tab characters	Any application that processes text.	Alternative to CSV if numeric data contains commas
Microsoft Excel XML	New format supported by MS Office XP and newer	Any Microsoft product that can read MS XML files	Supports multiple sheets of data, with each sheet holding 65535 rows of data.

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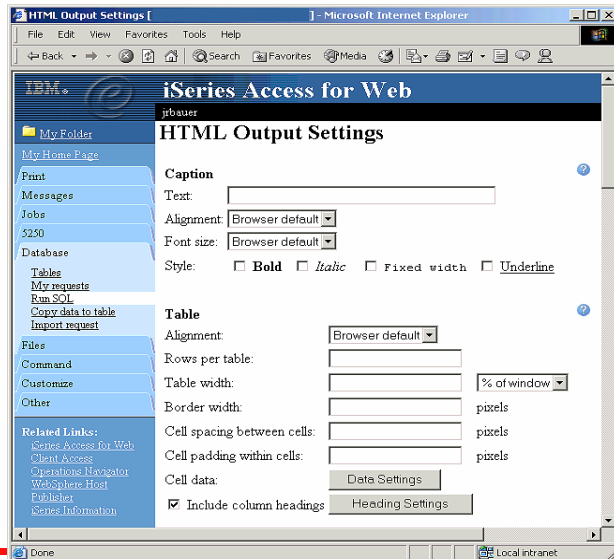
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SQL Output Types

HTML Output Settings

Many settings for:

- Caption
- Table
- Cell data



HTML Output Type

Displaying output in a paged list

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

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIP
583990	Abraham	M T	396 Mill St	Isle	MN	
839283	Jones	B D	21B NW 135 St	Clay	NY	
555666	Zeeman	J K	345 Ralph Ave	Edina	Ia	
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	
846203	Allison	J S	787 Lake Dr	Isle	MN	



HTML Output Type

Contrasting other layouts

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

Customer Information

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOL
583990	Abraham	M T	396 Mill St	Isle	MN	56342
839283	Jones	B D	21B NW 135 St	Clay	NY	13041
555666	Zeeman	J K	345 Ralph Ave	Edina	Ia	45443
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	75218
846283	Alison	J S	787 Lake Dr	Isle	MN	56342
397267	Tyron	W E	13 Myrtle Dr	Hector	NY	14841
593829	Pamas	F N	9 Briddle Lan	Salts	UT	76609

SQL Output [RCHAS1DD.RCHLAND.IBM.COM] - Microsoft Internet Explorer

CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZI
583990	Abraham	M T	396 Mill St	Isle	MN	
839283	Jones	B D	21B NW 135 St	Clay	NY	
555666	Zeeman	J K	345 Ralph Ave	Edina	Ia	
593029	Williams	E D	485 SE 2 Ave	Dallas	TX	
846283	Alison	J S	787 Lake Dr	Isle	MN	

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



HTML Output Type

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

The template file must exist in the integrated file system on the iSeries server

HTML Output Settings [Microsoft Internet Explorer]

Template

File: /boots/homepage/accesswater.html

Page: %%CONTENT%%

General

Character set: Multilingual [UTF-8]

IBM Access for Water Supplying quality boats since 2002

BNAME	BFEET	BYEAR	BCOST	BNT01
Mako Sportfisher	19	1989	13000	-Located in Anacortes, WA.
Monk Bridgedeck Cruiser	36	1956	19900	-Built of mahogany, oak, and cedar.
Carver Santa Cruz	28	1978	23900	-Constructed of fiberglass.

IBM iSeries Service



HTML Output Type

Example of template file

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



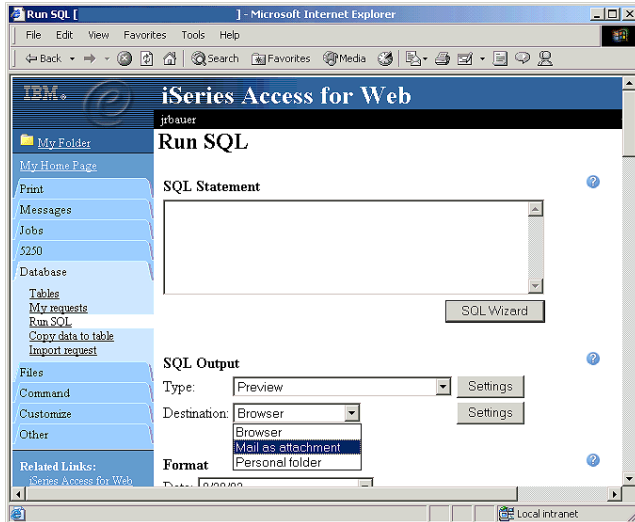
SQL Output Destinations

SQL Output Destinations

Choosing a destination

Choose from three different output destinations:

- Browser
- Email
- Personal folder



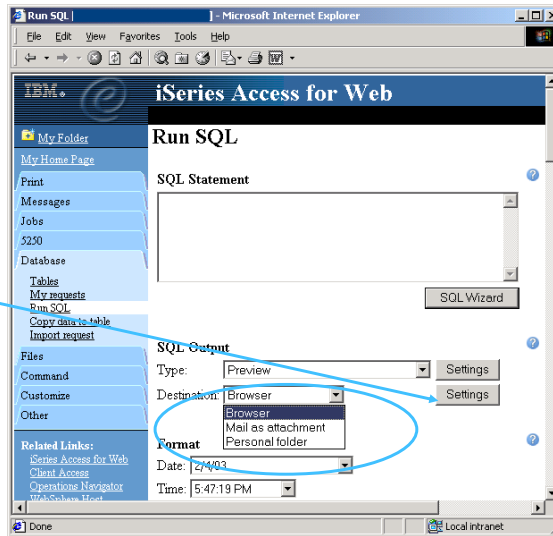
SQL Output Destinations

Items to consider when choosing destination type

- Browser
 - Allows for viewing results immediately after query completes.
 - Ties up browser session until query completes
- Email
 - SQL statement executes in the background, with control being returned to the browser session
 - Can include message text along with the results.
 - Can send results to people that don't have access to the iSeries system
 - Send results to multiple people.
 - User running SQL statement must have email address configured before using this option. This user will receive an email when request completes
- Personal folder
 - SQL statement executes in the background, with control being returned to the browser session
 - Send results of SQL statement to multiple people.
 - Person receiving results must be an iSeries Access for Web user.

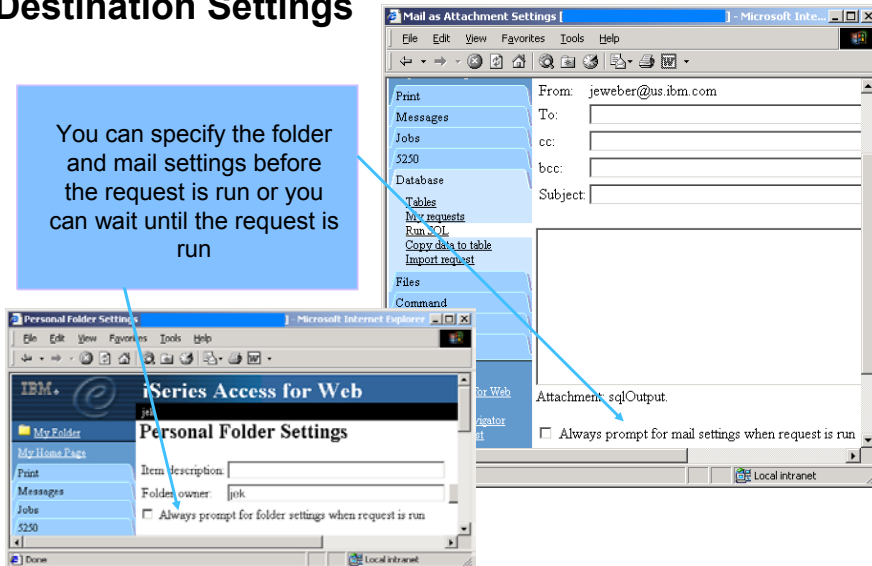
SQL Output Destinations

Some destination types support type specific settings



Destination Settings

You can specify the folder and mail settings before the request is run or you can wait until the request is run





Importing Data Transfer Requests

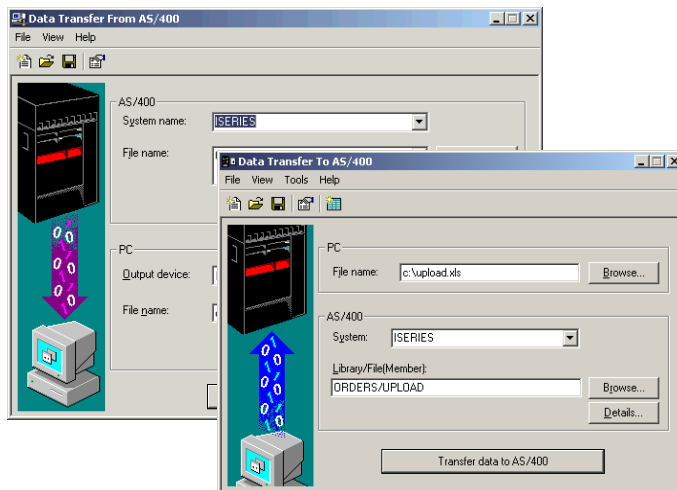
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Importing Client Access Data Transfer Requests

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



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Importing Data Transfer requests

Client Access, Client Access Express, and iSeries Access for Windows Data Transfer request profiles may be imported into iSeries Access for Web

Data Transfer From AS/400 / iSeries

- .TTO and .DTF request files supported by iSeries Access for Web
- iSeries Access for Web tries to do a "best fit" match for options in the transfer request file when converting them to a SQL select statement

Data Transfer To AS/400 / iSeries

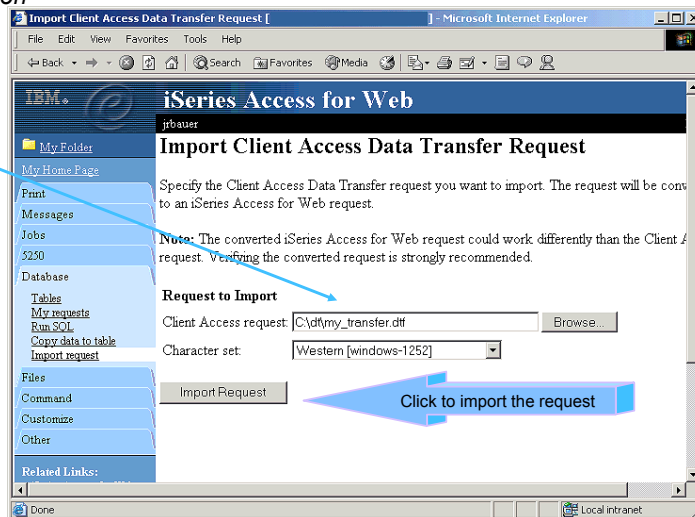
- .TFR and .DTT request files supported by iSeries Access for Web
- iSeries Access for Web tries to do a "best fit" match for options in the transfer request when converting them to an upload request



Importing a Client Access Data Transfer Request

The Import Function

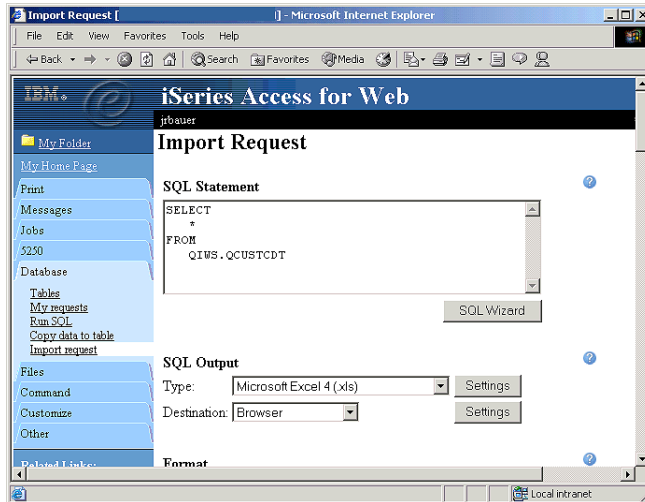
Browse for or enter in the name of the Client Access Data Transfer upload or download request to import



Importing a Client Access Data Transfer Request

Importing a Data Transfer From AS/400 Request

The imported transfer request may be run or saved as an iSeries Access for Web request



Import Request - Restrictions

- Some file types supported by Data Transfer are not supported by iSeries Access for Web. In some cases the file type is mapped to a supported type. In the case where a close match for the file type does not exist in iSeries Access for Web, the import will fail.
- Some Data Transfer output options are not supported by iSeries Access for Web. These options are ignored. An example is a Data Transfer request to a printer.
- iSeries Access for Web only provides access to the default member of a file (table).
- iSeries Access for Web does not differentiate between source physical and data physical files. SRCSEQ and SRCDAT columns are never stripped on queries and never added on copies.
- Some Data Transfer download requests cannot be modified by the SQL Wizard. In these cases, you can modify the requests on the Run SQL panel.
- iSeries Access for Web determines the encoding of client files based on the Data Transfer translate option and the client browser settings. If the resulting encoding is not correct, you need to set the value on the Import page.



Managing Requests

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Managing Requests

Managing your stored SQL and copy data requests

From My Requests you can run, copy, delete, rename, or create shortcuts to requests. You may also access shortcuts others have given you

Request	Description	Action	Shortcut	By	Access
ARenamed	My Requests	Run Copy	Yes	jpvaldez	*PUBLIC
Parts List	Query parts in PARTS table	Run Copy Delete Rename Create shortcut Edit	No	jrbauer	jrbauer
public	My Requests	Run Copy	Yes	jpvaldez	*PUBLIC

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Notes: Managing Requests

Use My requests to manage saved database requests. Saved requests include requests saved using Run SQL or Copy data to table. Imported Client Access Data Transfer requests, saved in either format, are also included in this list. The My requests function supports the following actions:

- **Run**
Run the request. If the request is a Run SQL request, it will run the statement. If the request is a Copy data to table request, the Copy data to table panel will display will all the request attributes set.
- **Copy**
Make a copy of the request.
- **Rename**
Rename the request.
- **Delete**
Delete the request.
- **Create Shortcut**
Create a shortcut to the request. Access to the shortcut can be given to another user, a group of users, or to everyone (*PUBLIC)



Shortcuts

Working with shortcuts

My Requests allows you to work with shortcuts

Manage shortcuts you created

Request	Description	Action	Shortcut	Created By	Access
ARenamed My Requests	My Requests	Run Copy	Yes	jpvaldez	*PUBLIC
Parts List	Query parts in PARTS table	Run Copy Delete Rename Create shortcut Edit	No	jrbaauer	jrbaauer
public	My Requests	Run Copy	Yes	jpvaldez	*PUBLIC

[Run SQL](#)
Create a new SQL request

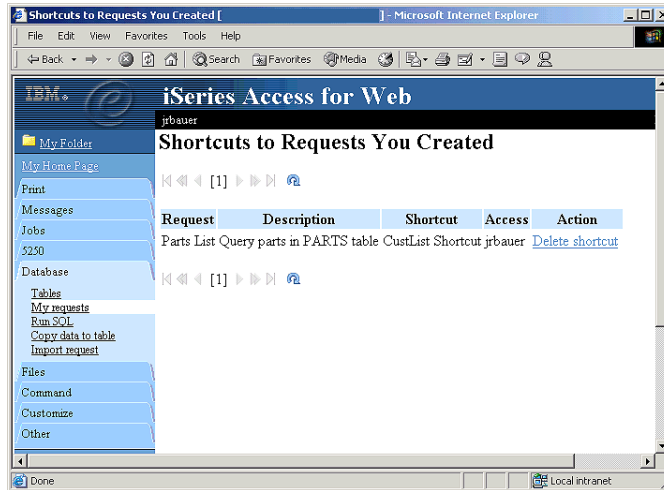
[Copy data to table](#)
Create a new copy data request

[Shortcuts to requests you created](#)
Displays a list of shortcuts to requests you created. Shortcuts can be deleted from this list.

Managing Shortcuts

Shortcuts to Requests You Created

- Original Request
- Request Description
- Shortcut
- Access - who can use it/see it
- Action - delete the shortcut



Notes: Working with Shortcuts

Database requests can only be accessed by the iSeries user profile used to create them. A shortcut is a way to share a request with other users. The following topics describe how the request actions apply to shortcuts:

Create a shortcut

To create a shortcut, a name and an access value must be specified. The access value identifies who will be able to access the shortcut. The access value can be an existing user profile name on the iSeries server, an existing group profile name, or *PUBLIC.

Run a shortcut

When a shortcut is run, the original request is actually run. If the original request is modified, the shortcut automatically picks up the modified behavior. This is not true for connection information, since the connection information is stored directly with the shortcut. If the connection in the original request is updated, the shortcut will not pick up the new connection. If this is not the desired behavior, the shortcut can be deleted and recreated.

Copy a shortcut

Copying a shortcut actually makes a copy of the original request. Like other requests, the access value for a copied request is the user profile used to create the copy. Therefore, any modifications to the copy do not affect the users of the the shortcut.

Delete a shortcut

The creator of a shortcut can delete the shortcut. If the shortcut access is a single user profile, the user with access to the shortcut can also delete it. Only the shortcut creator can delete a group or *PUBLIC shortcut.

Rename a shortcut

Only shortcuts with a single user profile access can be renamed. These shortcuts can be renamed by the shortcut creator or by the user with access to the shortcut.

Editing shortcuts or creating shortcuts to other shortcuts

Shortcuts cannot be edited and a shortcut cannot be created to another shortcut.



Request Accessibility

- Database requests can only be accessed by the iSeries user profile used to create them
- A shortcut is a way to share a request with other users on the server.
 - A shortcut is a reference to the original request
- When you create a shortcut to a request you need to specify an "Access" value
 - The access value determines who has access to the shortcut
 - An access value can be
 - a user profile name on the iSeries server
 - a group profile name
 - *PUBLIC (this gives all users on the server access to the shortcut)
- You cannot create shortcuts to another user's requests
- You cannot create shortcuts to shortcuts
- Only the shortcut creator can delete a *PUBLIC shortcut



Shortcut Changes

- The settings of the request referenced by a shortcut cannot be modified by the end user.
- Changes made to the request referenced by the shortcut are automatically reflected when the shortcut is run
 - Note: This is not true for changes to the connection information since the connection information is stored as part of the shortcut

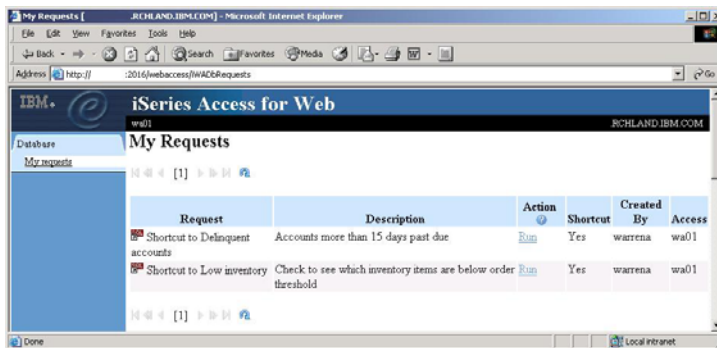
Shortcut Example

Here is an example of how one company might use shortcuts and customization to manage database usage:

- Use customization to give the database administrator access to all database functions.
- Use customization to deny users, in the *PUBLIC group, access to all database functions actions other than running shortcuts.
- Create the following three database requests:
 - "Past due accounts"
 - "Low inventory"
 - "New orders"
- Create the following three shortcuts:
 - To "Past due accounts" and give access to the ACCOUNTING group.
 - To "Low inventory" and give access to the PURCHASING group.
 - To "New orders" and give access to the SHIPPING group.

Shortcut Example (cont.)

- Only the database administrator is allowed to create and modify requests
- Other users are only allowed to run shortcuts
- The shortcuts a user is allowed to run are limited to the shortcuts the administrator decides the user should be able to access.





Support for WebSphere Portal Server

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Database Table Viewing

IBM WebSphere Portal - Microsoft Internet Explorer

WebSphere Portal

My Portal Administration Edit my profile Log out

Welcome My Work My Finances My Newsroom My iSeries My Favorites

5250 iFrame Portlets Files Print Database Command

iSeries Database Table

Add Record Refresh

Showing 1 - 10 of 12 Page 1 of 2 Jump to page: 1

Actions	CUSNUM	LSTNAM	INIT	STREET	CITY	STATE	ZIPCOD	CDTLMT	CHGCOD	BALDUE	CDTDUE
	938472	Henning G K		4859 Elm Ave	Dallas TX		75217 5000		3	37.00	0.00
	839283	Jones B D		218 NW 135 St Clay	NY		13041 400		1	100.00	0.00
	392859	Vine S S		PO Box 79	Broton VT		5046 700		1	439.00	0.00
	938485	Johnson J A		3 Alpine Way	Helen GA		30545 9999		2	3987.50	33.50
	397267	Tyron W E		13 Myrtle Dr	Hector NY		14841 1000		1	0.00	0.00
	389572	Stevens K L		208 Snow Pass	Denver CO		80226 400		1	58.75	1.50
	846283	Alison J S		787 Lake Dr	Isle MN		56342 5000		3	10.00	0.00
	475938	Doe J W		59 Archer Rd	Sutter CA		95665 700		2	250.00	100.00
	693829	Thomas A N		3 Dove Circle	Casper WY		82609 9999		2	0.00	0.00
	593029	Williams E D		485 SE 2 Ave	Dallas TX		75218 200		1	25.00	0.00

Showing 1 - 10 of 12 Page 1 of 2 Jump to page: 1

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Database Table – Add Record

The screenshot shows a web browser window titled "IBM WebSphere Portal - Microsoft Internet Explorer". The browser's address bar shows "5250 iFrame Portlets". The page content is titled "iSeries Database Table" and contains a form labeled "Add Record". The form has the following fields:

CUSTOMER NUMBER FIELD	<input type="text" value="0"/>
LAST NAME FIELD	<input type="text"/>
FIRST AND MIDDLE INITIAL FIELD	<input type="text"/>
STREET ADDRESS FIELD	<input type="text"/>
CITY FIELD	<input type="text"/>
STATE ABBREVIATION FIELD	<input type="text"/>
ZIP CODE FIELD	<input type="text" value="0"/>
CREDIT LIMIT FIELD	<input type="text" value="0"/>
CHARGE CODE FIELD	<input type="text" value="0"/>
BALANCE DUE FIELD	<input type="text" value="0"/>
CREDIT DUE FIELD	<input type="text" value="0"/>

At the bottom of the form are two buttons: "Add Record" and "Cancel".



Database Table – Update Record

The screenshot shows a web browser window titled "IBM WebSphere Portal - Microsoft Internet Explorer". The browser's address bar shows "5250 iFrame Portlets". The page content is titled "iSeries Database Table" and contains a form labeled "Update Record". The form has the following fields:

CUSTOMER NUMBER FIELD	<input type="text" value="938472"/>
LAST NAME FIELD	<input type="text" value="Henning"/>
FIRST AND MIDDLE INITIAL FIELD	<input type="text" value="G K"/>
STREET ADDRESS FIELD	<input type="text" value="4859 Elm Ave"/>
CITY FIELD	<input type="text" value="Dallas"/>
STATE ABBREVIATION FIELD	<input type="text" value="TX"/>
ZIP CODE FIELD	<input type="text" value="75217"/>
CREDIT LIMIT FIELD	<input type="text" value="5000"/>
CHARGE CODE FIELD	<input type="text" value="3"/>
BALANCE DUE FIELD	<input type="text" value="37.00"/>
CREDIT DUE FIELD	<input type="text" value="0.00"/>

At the bottom of the form are two buttons: "Update Record" and "Cancel".



Database Table – Customizing

IBM WebSphere Portal - Microsoft Internet Explorer

Slot name: deployment.keystore

Use authenticated WebSphere credential

General

Window title:

List size:

Show server

Show user

Table

Table:

Maximum rows:

Filter:

Record Actions

Add

Update

Delete

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Database Table – Customizing Add Record

IBM WebSphere Portal - Microsoft Internet Explorer

iSeries Database Table

Add Record Settings

Select the columns to display on the Add Record form. Each column with a required indicator must either be selected or have a default value set. Use the action buttons to change the column order.

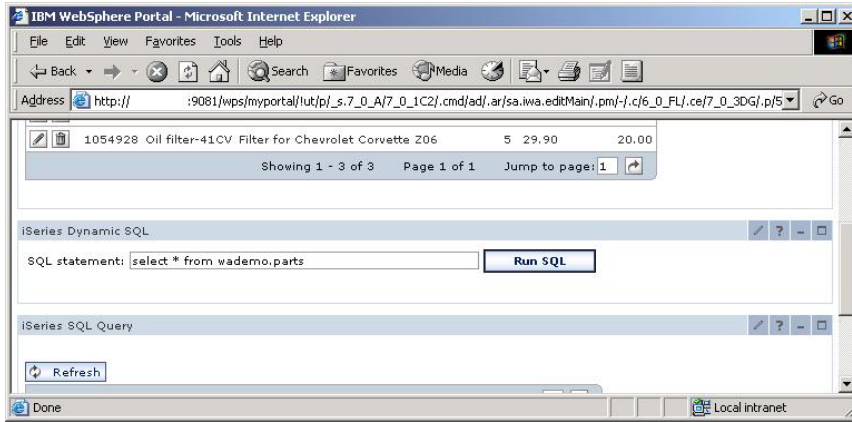
Display	Column	Label	Default Value	Required	Actions
<input checked="" type="checkbox"/>	CUSNUM	CUSTOMER NUMBER	0	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	LSTNAM	LAST NAME FIELD	<input type="text"/>	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	INIT	FIRST AND MIDDLE	<input type="text"/>	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	STREET	STREET ADDRESS FI	<input type="text"/>	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	CITY	CITY FIELD	<input type="text"/>	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	STATE	STATE ABBREVIATIO	<input type="text"/>	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	ZIPCOD	ZIP CODE FIELD	0	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	CDLMT	CREDIT LIMIT FIELD	0	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	CHGCOD	CHARGE CODE FIELD	0	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	BALDUE	BALANCE DUE FIELD	0	<input type="checkbox"/>	▼ ▲
<input checked="" type="checkbox"/>	CDTDUE	CREDIT DUE FIELD	0	<input type="checkbox"/>	▼ ▲

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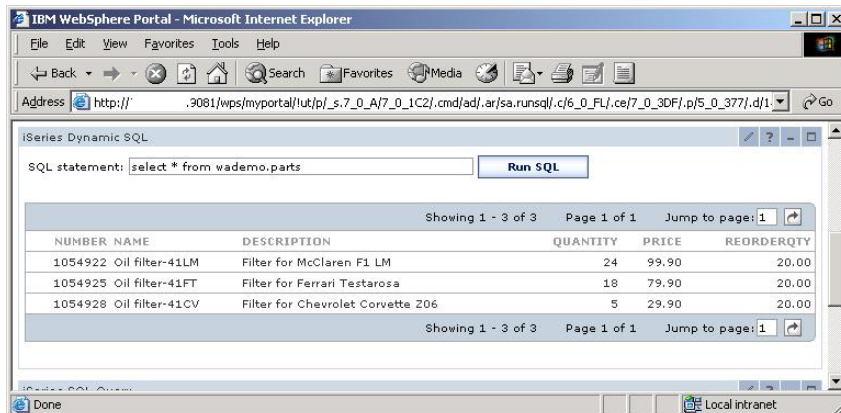
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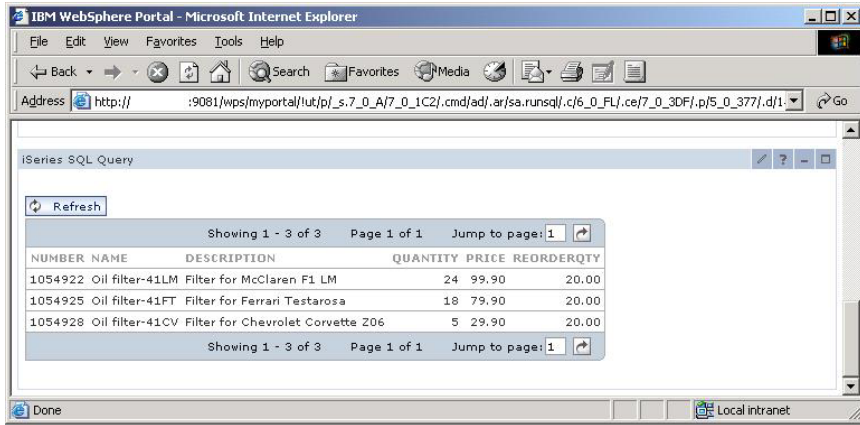
Dynamic SQL Query



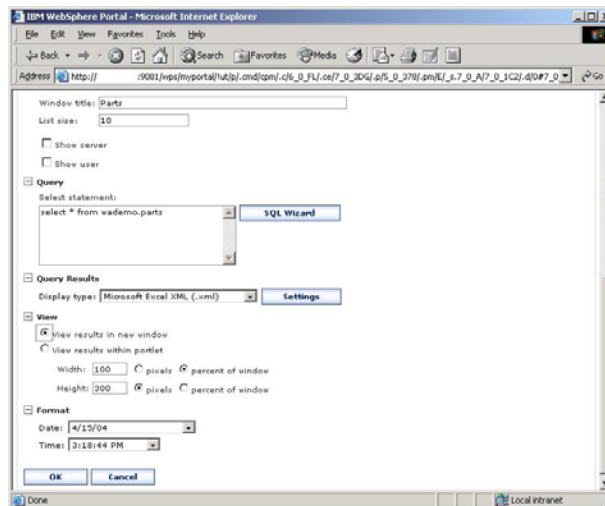
Dynamic SQL Query - continued



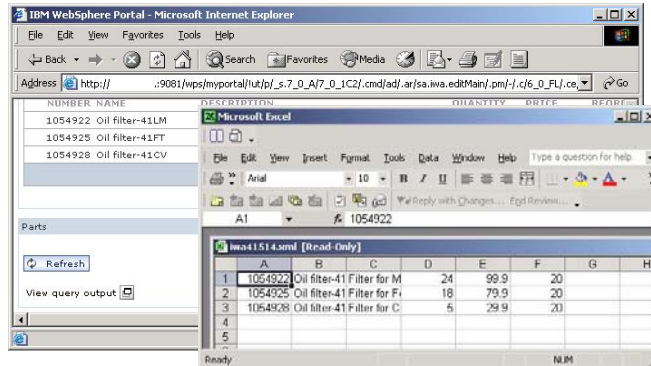
SQL Query – Default view



SQL Query – Changing the view



SQL Query – Tailored view



Summary

iSeries Access for Web Database:

- Is part of the iSeries Access for Web product
- Runs completely on the iSeries Server
- Can be accessed via a Web Browser
- Uses JDBC for DB2 UDB connectivity
- Allows you to work with SQL Tables. Including inserting, updating, and deleting records. You may also view the entire table.
- Has an interface to run SQL statements
- Has a graphical SQL Wizard to help you build SQL SELECT statements.
- Supports many data formats for displaying and emailing SQL Output
- May be used to copy data to iSeries tables
- Capable of Importing Client Access Data Transfer requests
- Robust interface for managing SQL requests
- Fully Customizable



Questions?

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eServer	iSeries	
	OS/400	

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