Form EIA-176 Query System

User's guide
Version 7.0

Energy Information Administration
U.S. Department of Energy

October 2006

Table of Contents

Table of Contents 2
Introduction 3
1.1 Purpose and Functions 3
1.2 Hardware and Software Requirements 4
2.0 Installing the Query System 4
2.1 Installing the EIA-176 Query System 4
2.2 Starting the EIA-176 Query System 4
2.3 Compressing the File for best performance 4
3.0 Using the Query System 6
3.1 Main Menu 6
3.2 View EIA-176 Respondent 7
3.2.1 Select a Company 7
3.2.1.1 Select a Company in a State 7
3.2.1.2 Select a Company by Name 8
3.3.2 View and Print EIA-176 Respondent Submission 8
3.2.2.1 View EIA-176 Company Menu 9
3.2.2.2 Choose Company Arrow Functions 10
3.3 Query EIA-176 Data 11
3.3.1 Pre-Selected Queries 11
3.3.1.1 Select a Company Screen 12
3.3.1.3 EIA-176 Query Menu Functions 13
3.3.2 - Custom Queries 28
3.3.2.1 View EIA-176 Company Menu 28
3.3.2.2 Pick Reported Lines 29
3.3.2.3 Select Quantities and Build Calculated Items 30
Appendix A – EIA-176 Survey Form 37
Appendix B – Pre-Selected Query Items 38
Appendix C – User Selected Query Item names 40

Introduction

1.1 Purpose and Functions

The EIA-176 Query System is a PC-based system for users to produce reports and extract data from the EIA-176 database that is used to produce the *Natural Gas Annual*. Its purpose is to provide users with company-level data. This information is available in a format similar to the survey form for individual companies, as well as in files suitable for tabular calculation.

The query system has two functions. • The first is to provide individual company responses in a form that resembles the EIA-176 survey form. This is viewable on-line, and available in a printed form. Appendix A shows a sample EIA-176 form. Each respondent is available in the year they reported data on the form EIA-176.

• The second function is to provide files of EIA-176 data for use with other software packages. The query system provides two methods to obtain tabular data. (1) a set of 24 pre-selected queries. The information in these queries was designed to satisfy the bulk of data requests received by the EIA. Appendix B outlines the pre-selected queries and their data items. And;

(2) The second method is for user-selected queries. These queries offer users the ability to access sets of data items not included in the pre-specified queries. Appendix C outlines the available data items. Data in the pre-selected and user-selected queries includes adjustment entries made by EIA staff to ensure that EIA-176 and publication data balance.

Data sets from both query methods can be saved to separate files in a variety of popular formats that include: text, comma-delimited for spreadsheets, SDF files for use with dBase, and fixed width format for use in other software packages.

New in the pre-selected query section is a report of Name/Address data, a report detailing individual company items shown in the continuation pages of the form, and LNG activity.

1.2 Hardware and Software Requirements

The minimum hardware requirements needed to install and use the EIA-176 Query System are:

- An IBM-compatible personal computer (PC) – minimum Pentium 75 is suggested and 24 MB of RAM
- The Windows operating system 95, 98, 2000, XP or NT –4.0 Service Pack 3 or later*
- Internet Explorer 5.0 or higher
- An 80-column monitor
- 15 MB of hard-drive space

* **- See the 'Getting Started' document for notes about installing and using the EIA-176 Query system with Access 2003.**

2.0 Installing the Query System
2.1 Installing the EIA-176 Query System

To install the EIA-176 Query System on your PC:

1) Download the software from the EIA web site.
2) Open Windows Explorer and find the file. The name will depend on which version was selected. All executables will begin with **EIA176Qry**. The rest of the name will indicate the version of Access that was selected.
3) Double click on the file **EIA176Qry….exe** and follow the instructions.
4) As the installation begins, a 'Welcome' screen is displayed. Click the 'Next' button to continue.
5) The 'Select Destination Directory' screen will be displayed. Click the 'Next' button if you wish to continue the installation to the default directory – C:\Program Files\EIA176Qry. If you wish to change the default directory, click the 'Browse' button.
6) The 'Ready to Install' screen will be displayed. To continue with the installation click on the 'Next' button.
7) A progress bar will appear.
8) When the installation is completed the 'Installation Completed' screen will be displayed.

Note: In some instances you will be prompted to re-start you computer to complete the installation. This is normal and can be done immediately to use the query system, or later if so desired.

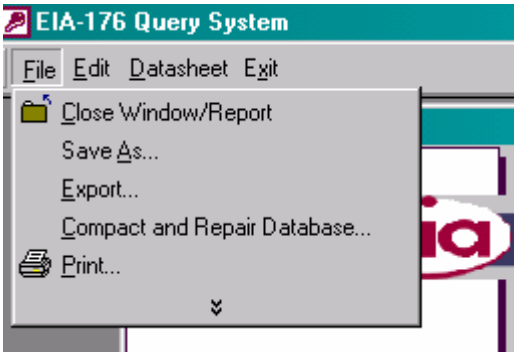
2.2 Starting the EIA-176 Query System

The query installation program creates a program group and a desktop icon for the EIA-176 Query System. The desktop icon starts the query system up immediately and appears on the desktop after the install program runs.

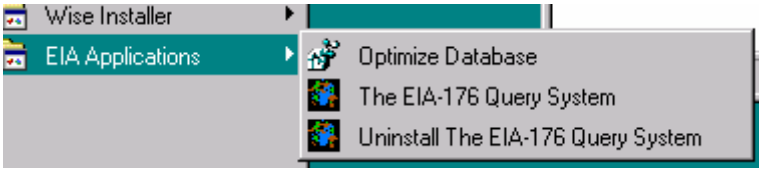
2.3 Compressing the File for best performance

The program group, which is available through the START menu has the EIA-176 Query System icon, as well as an option to Optimize (Compact and Repair) the query system. If you run a lot of queries and get unpredictable behavior from the application you should optimize the database.

The Optimize option should be run periodically so that the query database does not become fragmented. In the Access 2000 version the compact and repair option is available from the File Menu.



In Access 2000 or above run the Compact and Repair from the File menu.

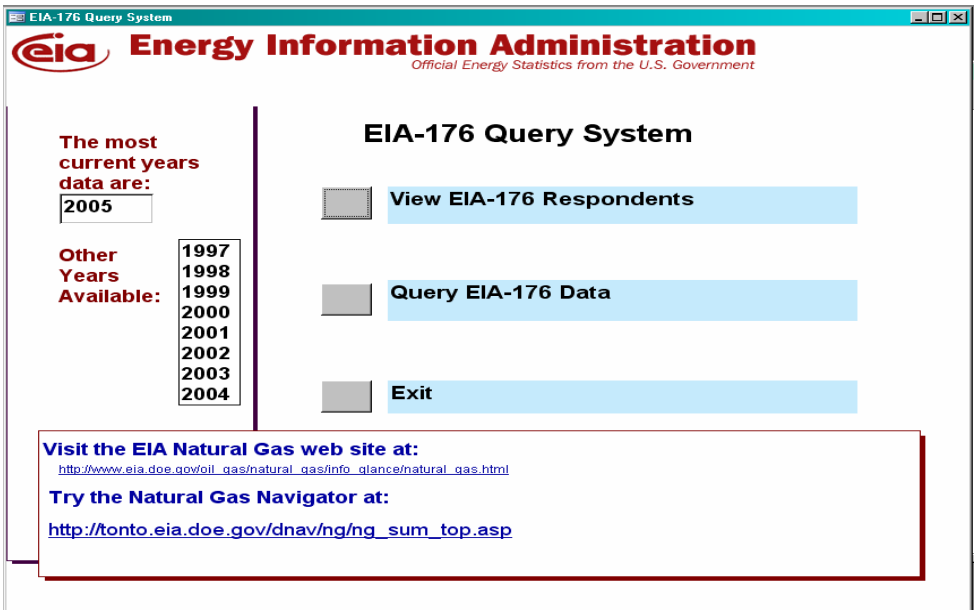


In the Access 97 version use the Optimize Database option from the Program Group to repair the database.

3.0 Using the Query System

After a successful installation you can use the query system to print off individual company submissions or to generate data files from your Windows desktop by clicking the **START** button, then the **Programs** button. If your are using Access 2003 please see the "Getting Started" document for a description of some warning screens you may encounter. Select the EIA Applications items, and then click EIA-176 Query, and the Main Menu Screen of the query system is displayed, as show below:

3.1 Main Menu



The three main options available in the EIA-176 Query system are accessed via this menu. They are:

1) View EIA-176 Respondents: Click this to choose individual respondents and view or print their submissions

2) Query EIA-176 Data: Click this to choose pre-selected or user selected queries which will allow the user to save data to PC-compatible files

3) Exit: This ends the EIA-176 query.

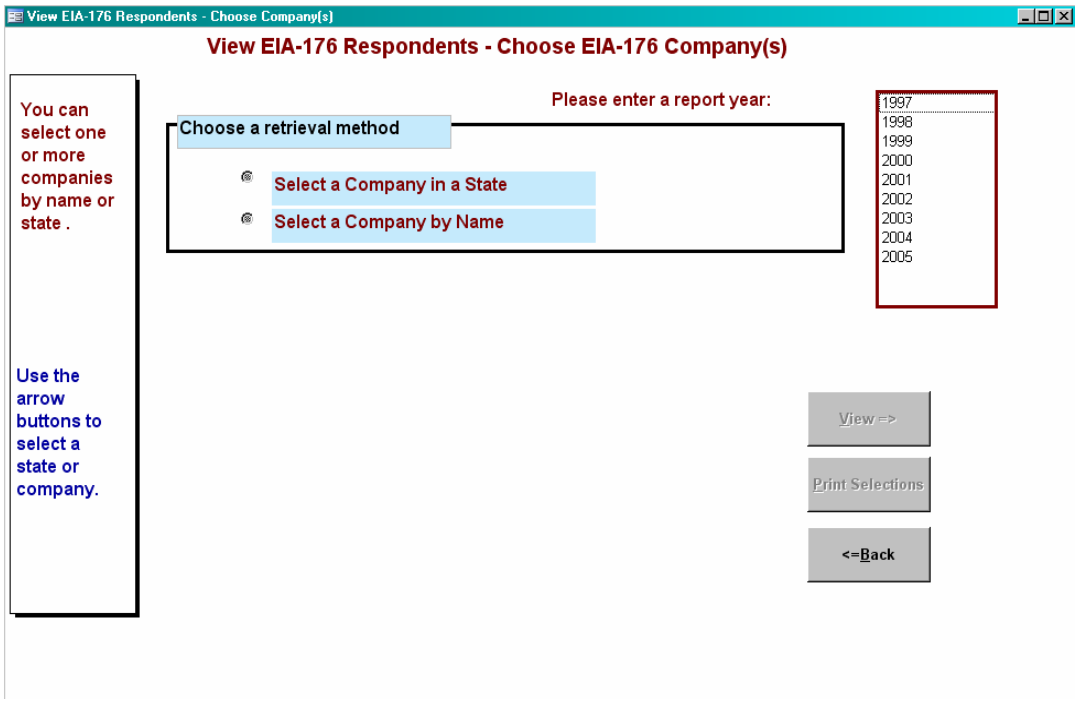
Each option is described in the sections that follow.

3.2 View EIA-176 Respondent

3.2.1 Select a Company

After clicking the **View EIA-176 Respondents** button on the **Main Menu**, the following **Choose EIA-176 Company Screen** is displayed.

1) Select the report year first.
2) Select the retrieval method



If you select a company by name you will see a list of EIA-176 company names. If you select a company in a state you will get a list of states. The companies will appear after you select a state.

3.2.1.1 Select a Company in a State

If you Select a **Company in a State** you'll see a list of states

Highlight the state(s) you want and use the single right pointing arrow located in-between the two white boxes to move the state to the selected box.

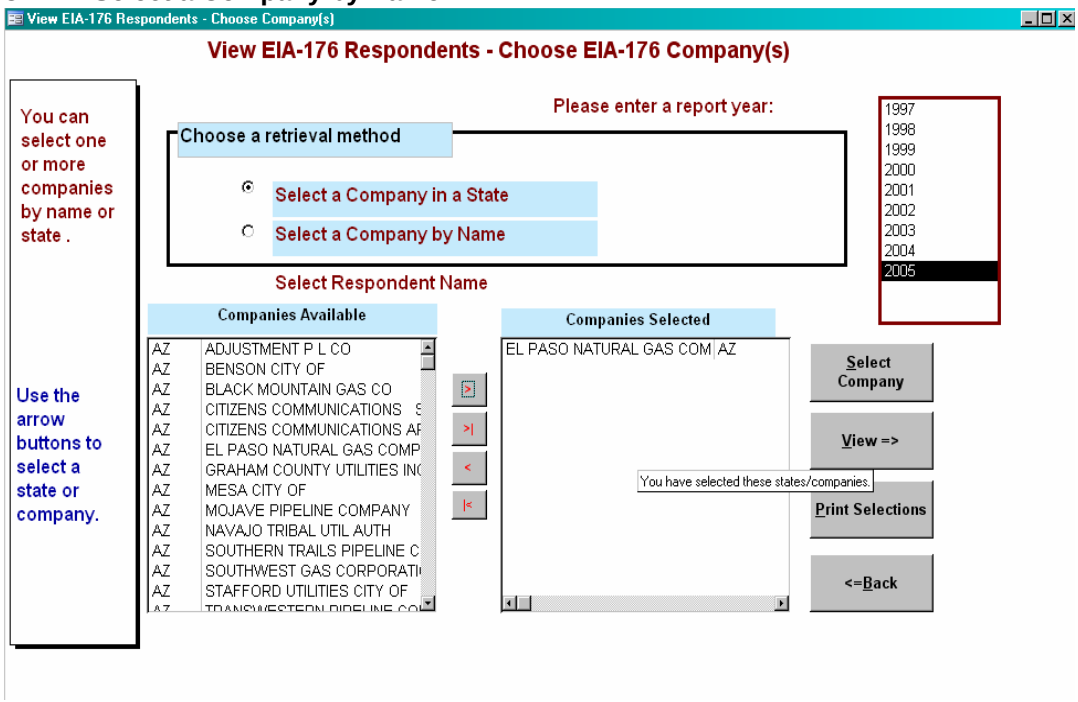
To unselect a state use highlight it in the selected (leftmost) box and use the single left pointing arrow to move the state out of the selected box.

Once you've selected a state click on the Select Company button to see available companies

within that state.

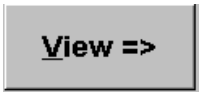
Use the mouse to select the company you want to view in the Companies available box. Click the right pointing arrow to move it to the selected box on the right.

3.2.1.2 Select a Company by Name



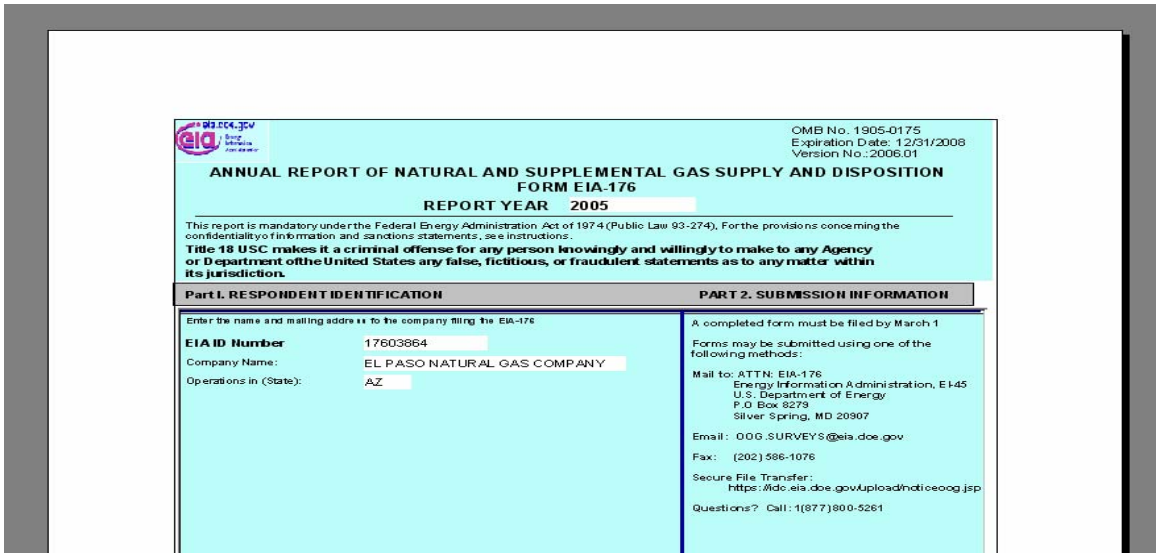
El Paso Natural Gas has been selected.

3.3.2 View and Print EIA-176 Respondent Submission

To view the submissions click the **View=>** button. 

To print the submission without previewing it click the **Print Selection** button.

View Respondent result – Preview screen



OMB No. 1905-0175
Expiration Date: 12/31/2008
Version No.: 2006.01

ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION
FORM EIA-176

REPORT YEAR 2005

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-274). For the provisions concerning the confidentiality of information and sanctions statements, see instructions.

Title 18 USC makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

Part I. RESPONDENT IDENTIFICATION | **PART 2. SUBMISSION INFORMATION**

Enter the name and mailing address to the company filing the EIA-176

EIA ID Number 17603864
Company Name: EL PASO NATURAL GAS COMPANY
Operations in (State): AZ

A completed form must be filed by March 1

Forms may be submitted using one of the following methods:

Mail to: ATTN: EIA-176
Energy Information Administration, EI-45
U.S. Department of Energy
P.O Box 8279
Silver Spring, MD 20907

Email: OOG.SURVEYS@eia.doe.gov

Fax: (202) 586-1076

Secure File Transfer:
https://idc.eia.doe.gov/upload/noticeoog.jsp

Questions? Call: 1(877)800-5261

You can maximize the preview screen by clicking on the resize button in the upper right corner.

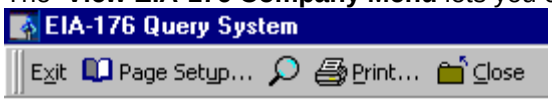
You can view subsequent pages of the preview screen by clicking the navigation buttons at the bottom of the screen.

The right pointing arrow **>** takes you to later pages.

The right arrow with the bar **>|** takes you to the last page.
The left pointing arrow **<** takes you to earlier pages.
The left arrow with the bar **|<** takes you to the first page.

3.2.2.1 View EIA-176 Company Menu

The **View EIA-176 Company Menu** lets you control this display.

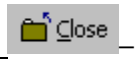


– Closes this application.

– Allow you to choose a printer and set the page orientation (portrait works best).

– Changes the magnification of the report.

– Sends the report to the printer.



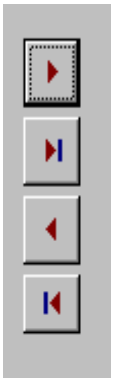
– Closes this report and either shows the next report if you've selected more than one, or returns you to the Choose Company screen.

Once you've returned to the Choose Company Menu you can exit this function by clicking on the **<=Return** button.

This will return you to the Main Menu.

3.2.2.2 Choose Company Arrow Functions

Below is a summary of what the arrow buttons in the Choose an EIA-176 Company do:



Moves the highlighted item in the left box to the right box.

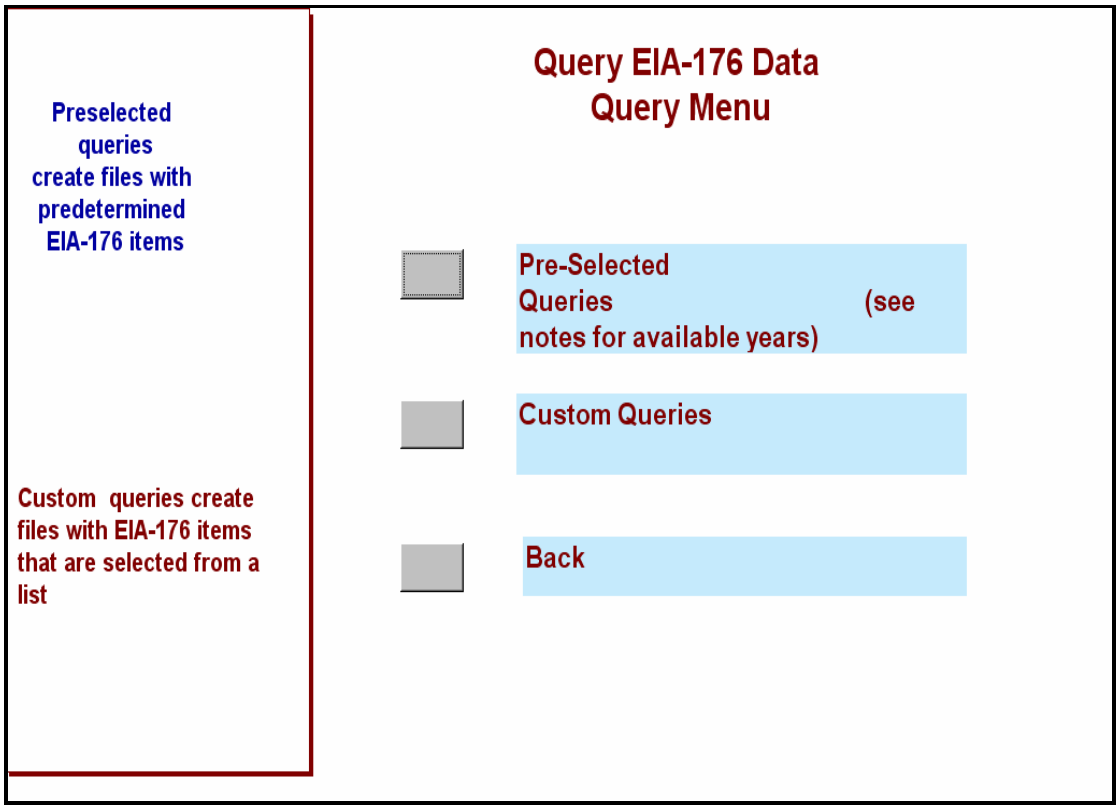
Move all the items in the left box to the right box.

Moves the highlighted item in the right box to the left box.

Move all the items (highlighted or not) from the right box to the left box.

3.3 Query EIA-176 Data

To view, select the **Query Menu** from the **Main Menu**.
There are two query options: Pre-selected, and User-selected.



The **Pre-selected Queries** option offers 24 queries that can be run on all or selected companies. The queries and the data items they include are detailed in Appendix B.

The **User-selected Queries** option allows users to select other EIA-176 data items for inclusion in data fields. They have a structured format. The rows will always be EIA-176 companies; users may select column data values.

The following sections will describe these two options.

3.3.1 Pre-Selected Queries

Pre-selected queries are queries whose conditions have already been created. These queries save the user the trouble of having to set the desired conditions each time he/she wishes to run the pre-set query.

The following pre-set queries are available:

Sorted by:

- State
- Volumes by sector (sales + transported)
- Prices by sector
- Rankings, by volume, national, and within States
- Type of Operations

Other:

Detailed data on continuation lines.

The first step in the pre-selected queries is to choose the year and company(s) you want to query.

3.3.1.1 Select a Company Screen

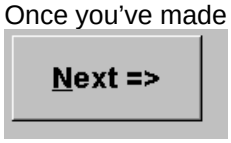
The Select Company screen for the queries is quite similar to that described in the View Respondent option which is described in section 3.3.1.

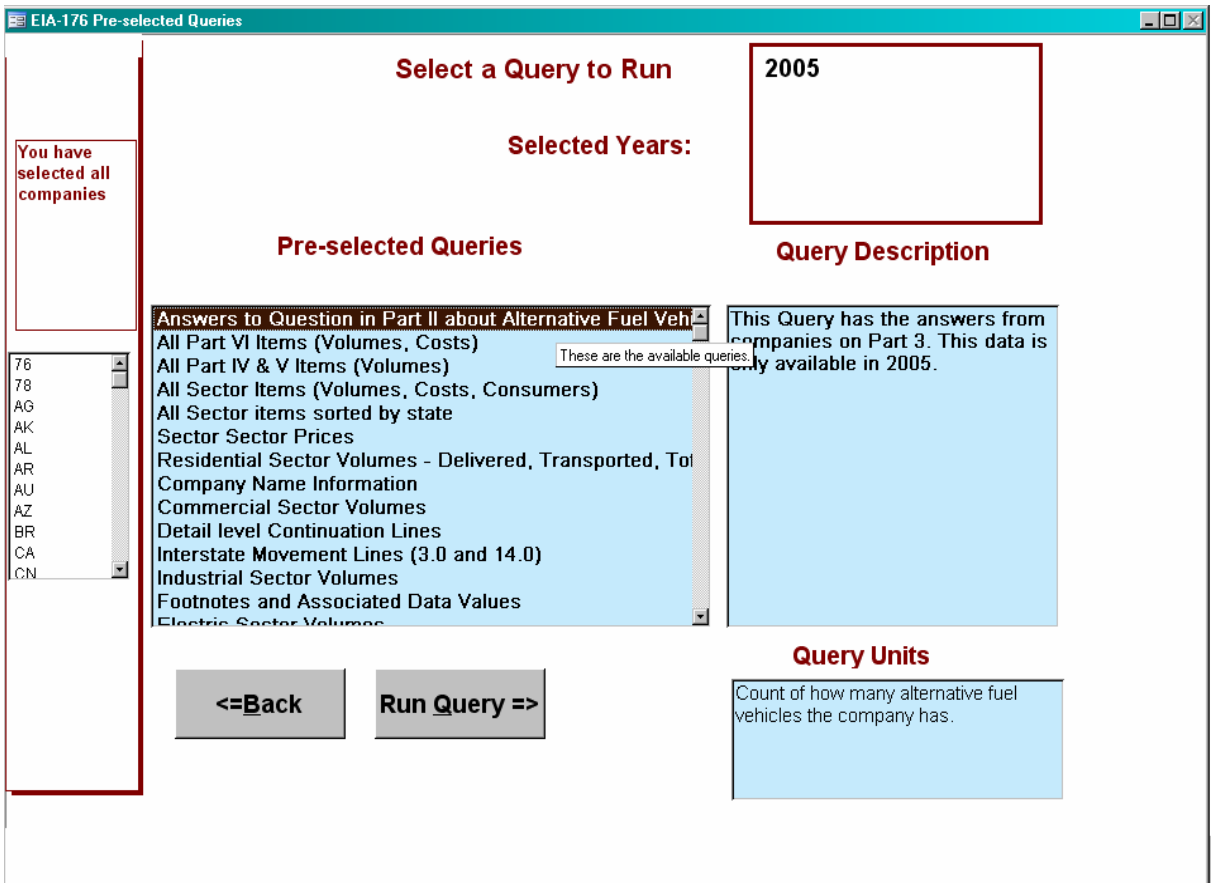
Begin by selecting a year in the '**Please enter a report year**:" .

You can select EIA-176 companies to include in your queries. If you want all companies choose the **Select All Companies** option, this retrieval method does not appear on the View Respondents menu. This will close this screen and go to the select queries screen.

The same white boxes that were used in the view respondent data are used here. If you **Select a Company in a State** you'll see a list of states to choose from.

Once you've made your selections click the Next=> button to select a query to run.

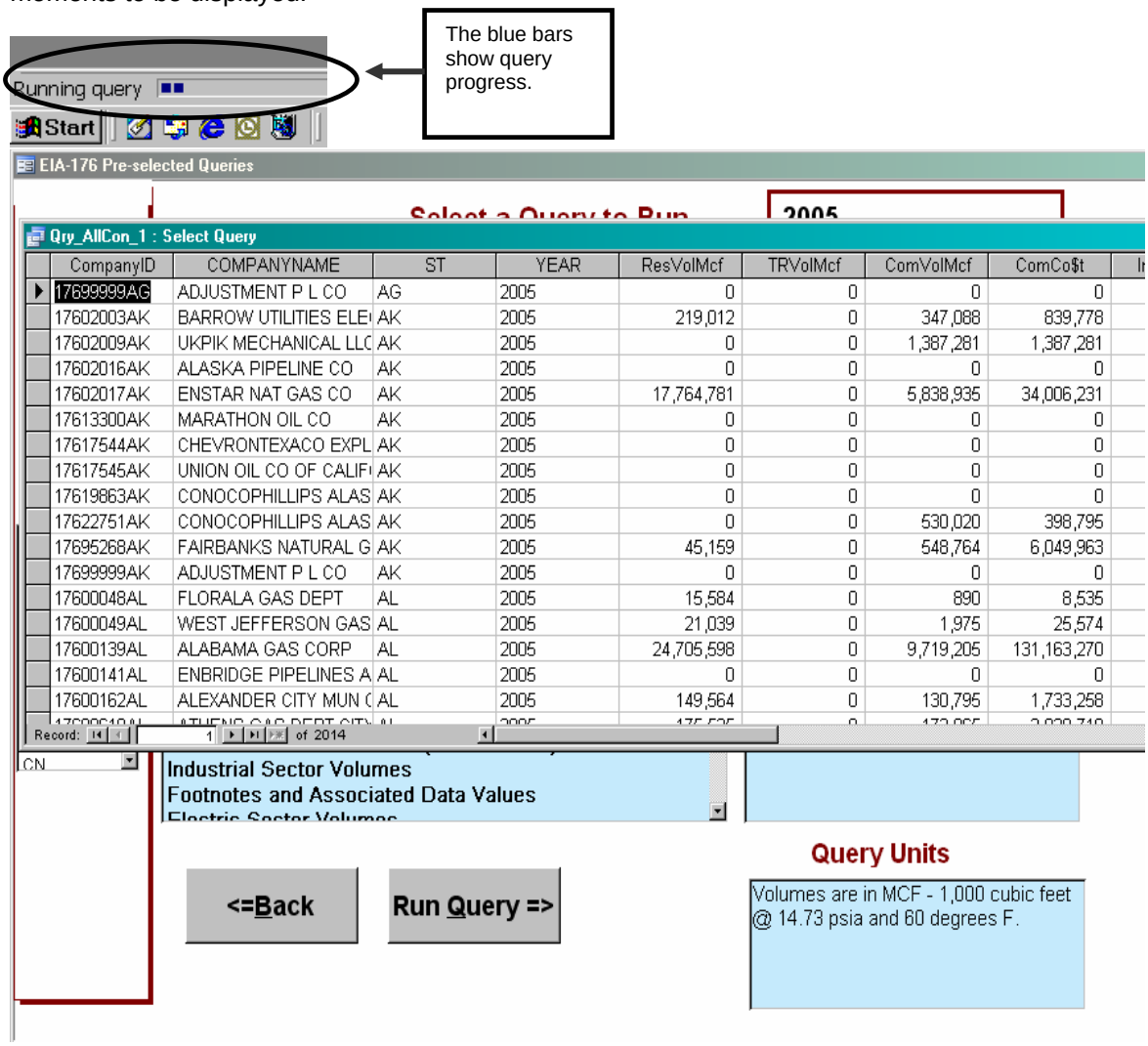




A detailed description of each pre-selected query can be obtained by highlighting the query title. The description appears in the box titled Query Description. The units the query will display in are shown in the Query Units box.

Once you've selected a query by highlighting it, click the Run Query=> button to execute the query.

The status bar is displayed at the bottom of the screen while the query is running. Some queries take a few moments to be displayed.

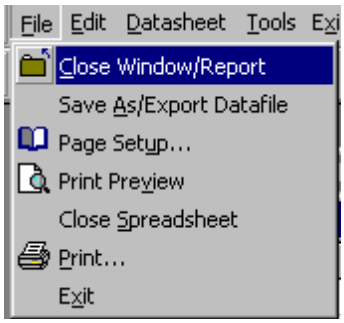


Query output is displayed in a grid on your screen.

3.3.1.3 EIA-176 Query Menu Functions

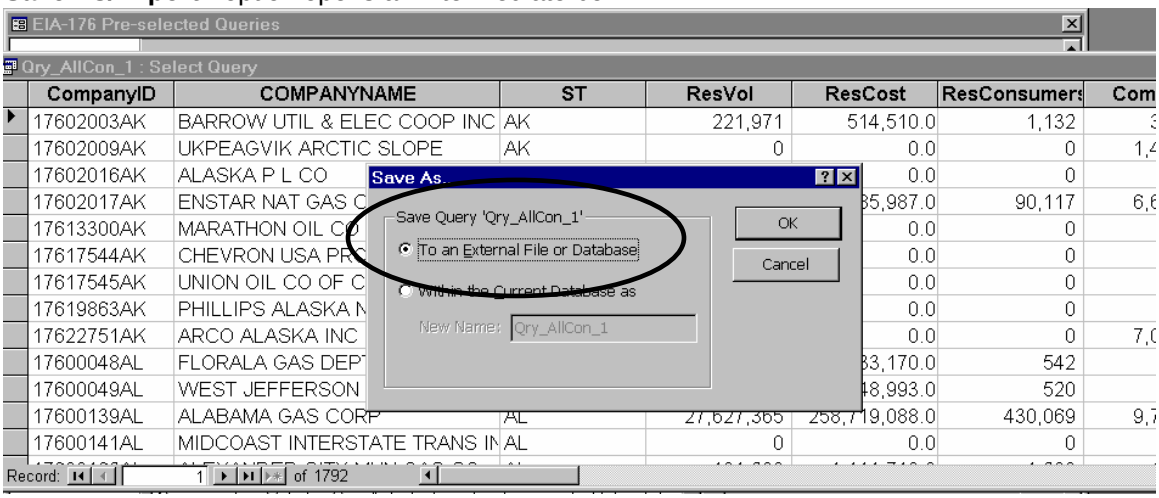
Menu items at the top of the screen are used to filter output, or export to other data formats.

File



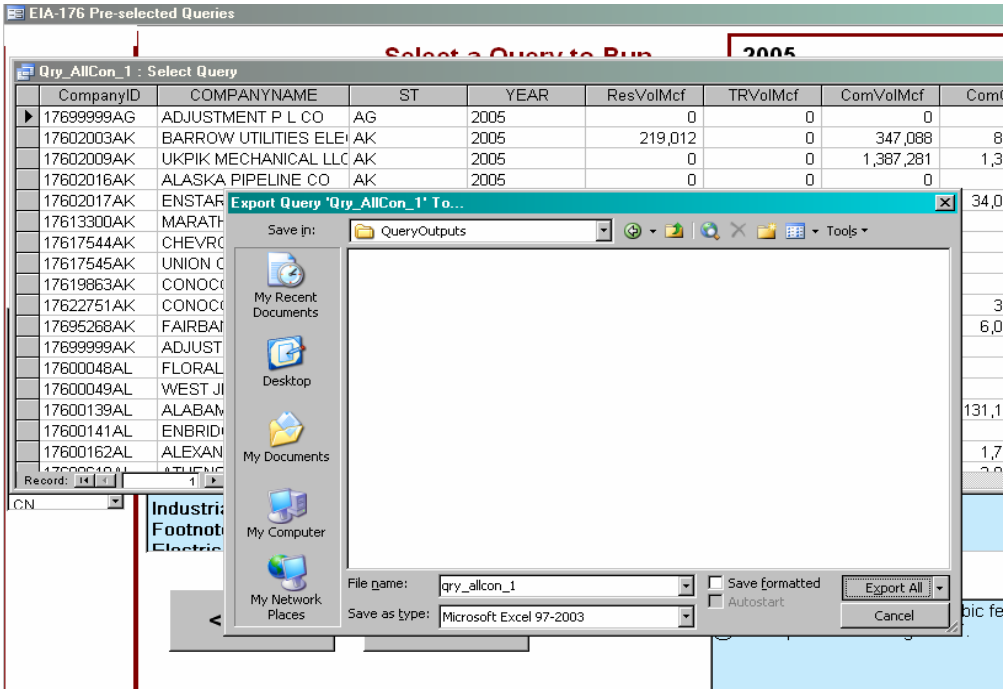
Close – Closes the query grid.
Save As/Export –Saves the data to another file
Page Setup – lets you choose print settings
Print Preview – Shows what a printout will look like
Exit – Quits the Query system.

Close – Exits the select query window.
Save As/Export - option opens an intermediate box.

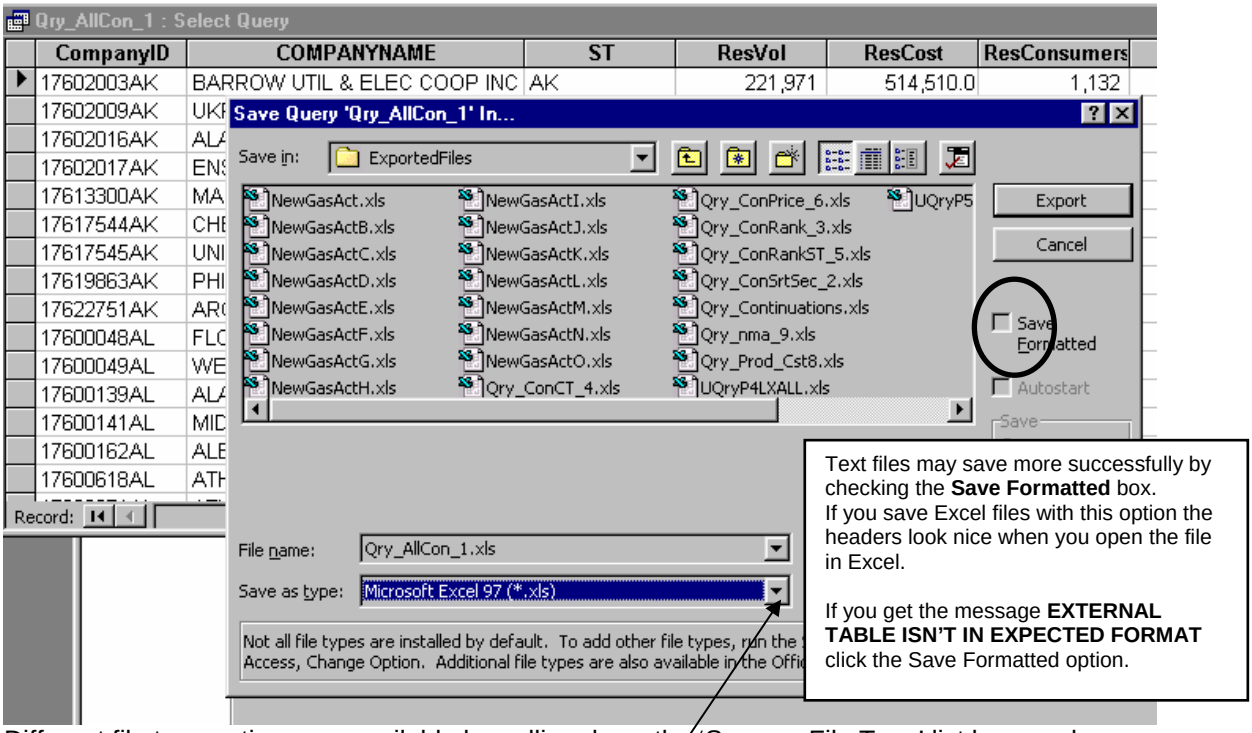


After you choose this option you will be presented with an initial '**Save As**' dialog box. Select the 'To an External File or Database' option, and click the OK button. You will not be able to access your file if you choose the 'Within the Current Database' option.

Note: This will look a little different depending on the version of MS Access that you are using. Under Windows XP and Access 2002 the Export screen will look as follows:



Next you will be presented with a Windows dialog box. Headers may look better when you select Save Formatted.
You can put your own name into the File Name box.

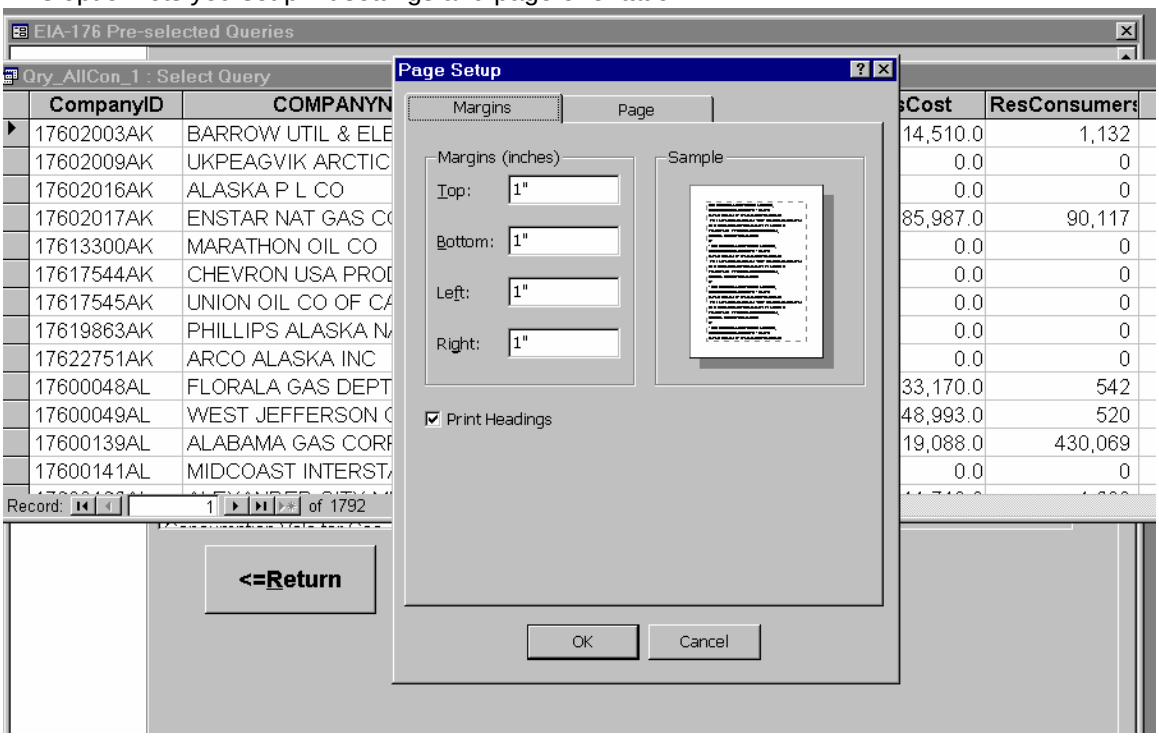


Different file type options are available by pulling down the 'Save as File Type' list box as shown.
By scrolling down the list of available file types you can choose dBase formats also.
Once you've named your file and selected the file type to save as click the Export button to finish

the operation.

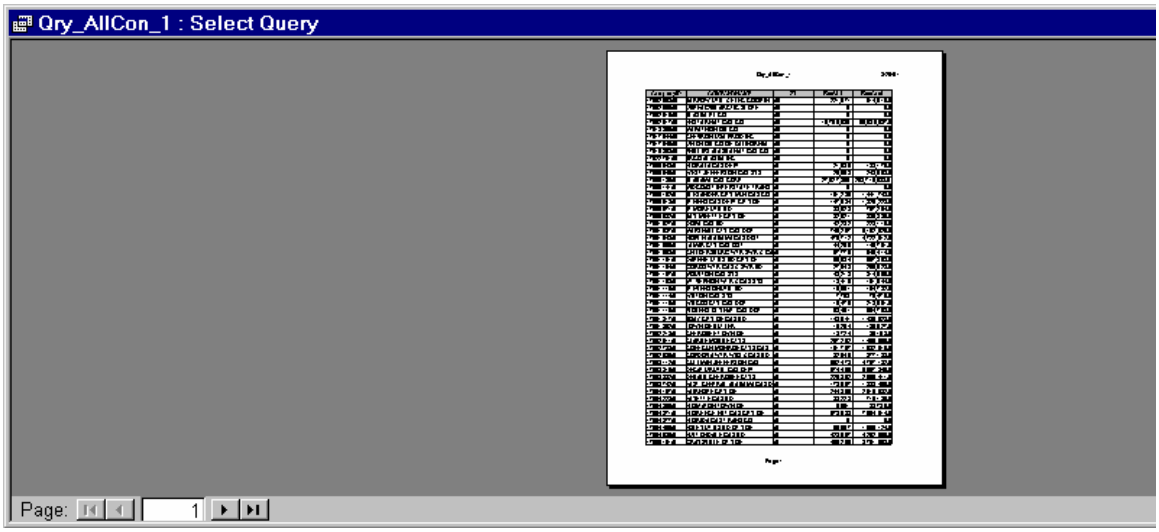
Page Setup

This option lets you set print settings and page orientation.



Most query output looks best with the print orientation Landscape. This can be selected from the Page tab.

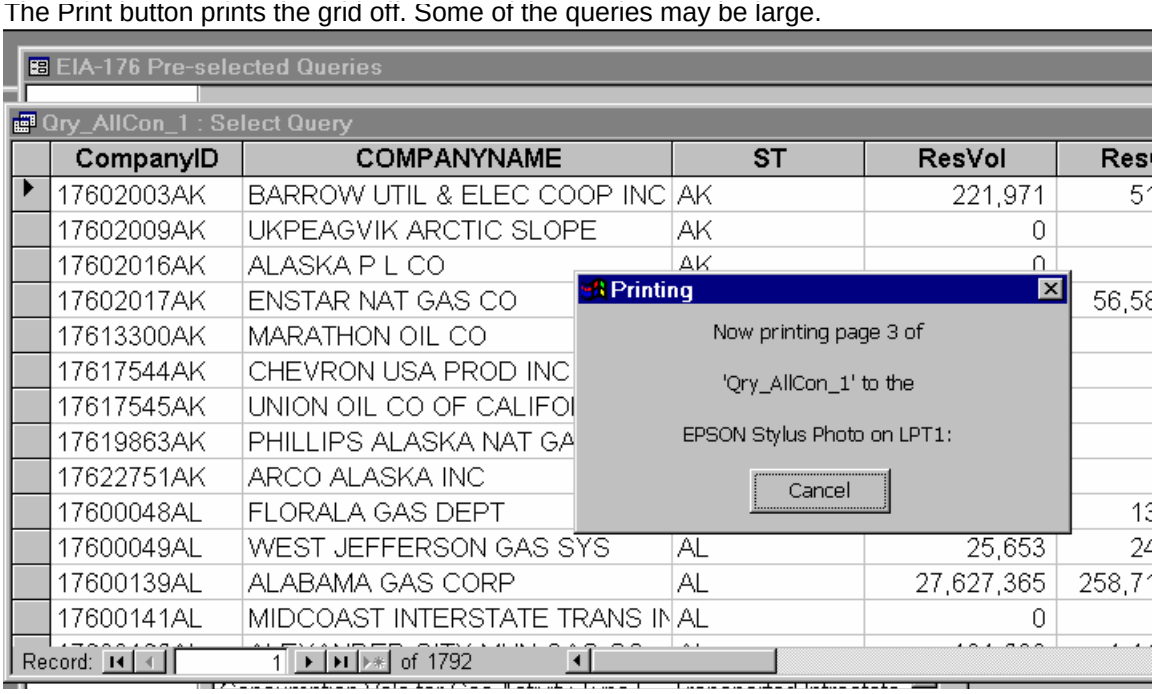
Print Preview



The Print Preview buttons lets you see what the printout will look like.

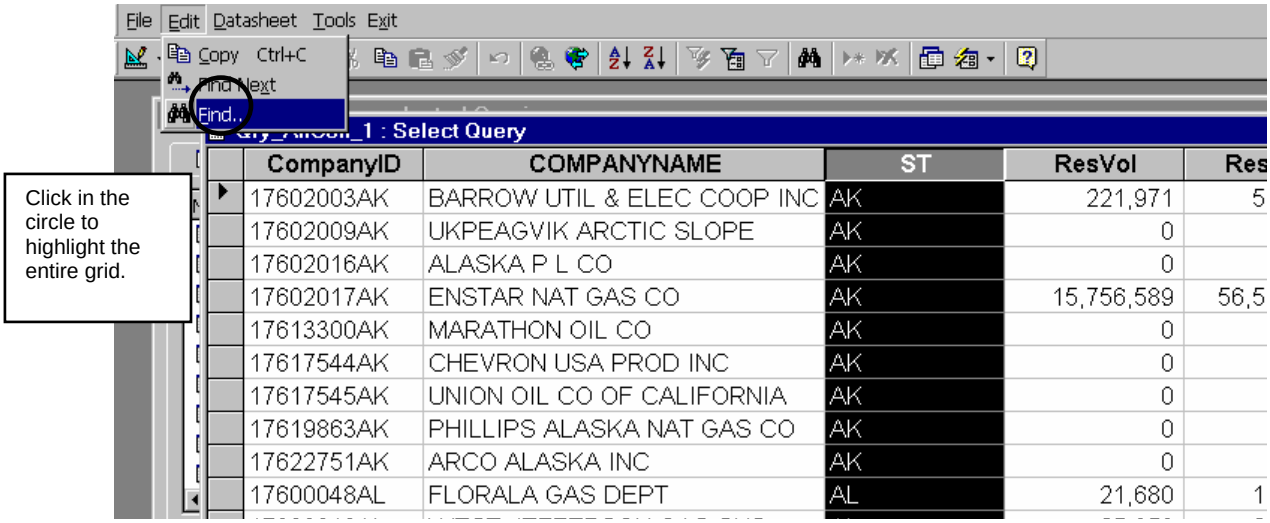
Print

The Print button prints the grid off. Some of the queries may be large.

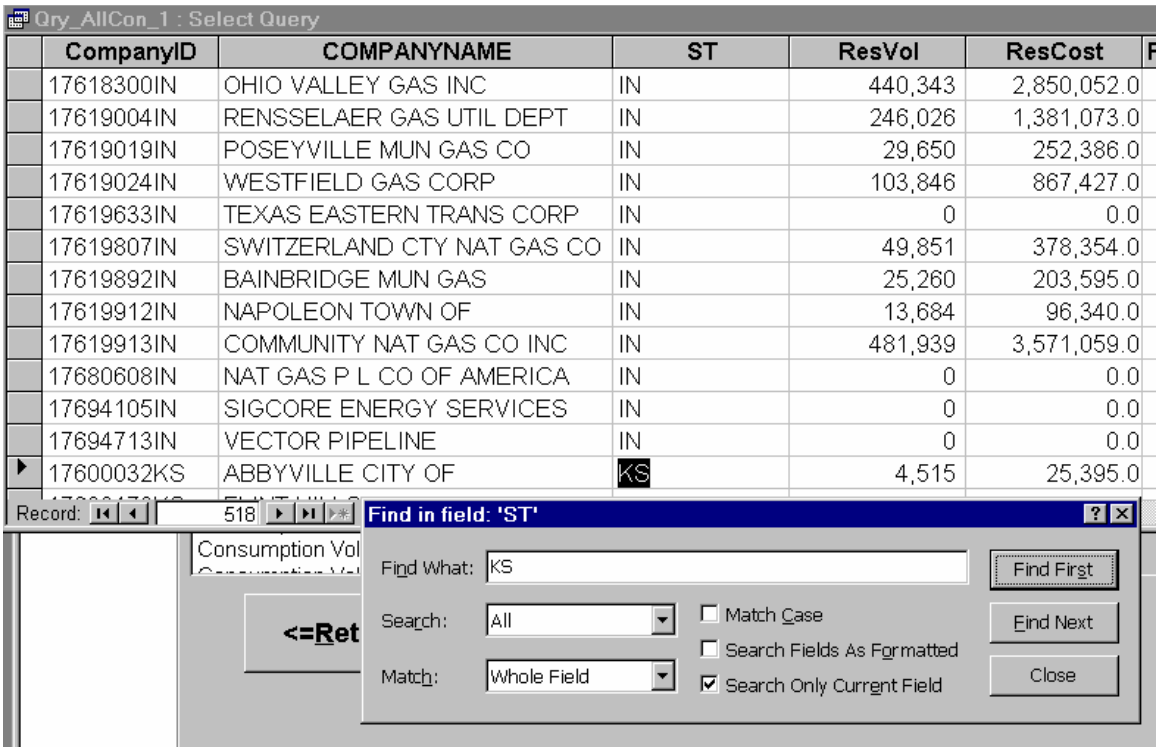


To use the Copy option the grid or column needs to be highlighted. The entire grid can be highlighted by clicking in the upper left corner (circled). Individual columns can be highlighted by clicking in the column header.

To use Find, select just one column by clicking on the column header. The ST column is highlighted in this example.

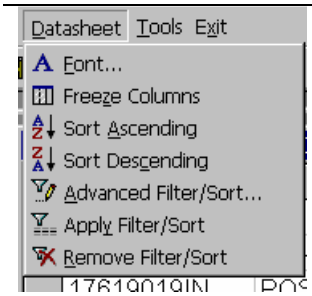


With the column selected pull down the Edit menu and click on the Find option.



A dialog box will appear. Enter the value you wish to search for. After you've centered the value you want to find click either Find First, or Find Next. The grid will advance to the found value or tell you that no values exist.

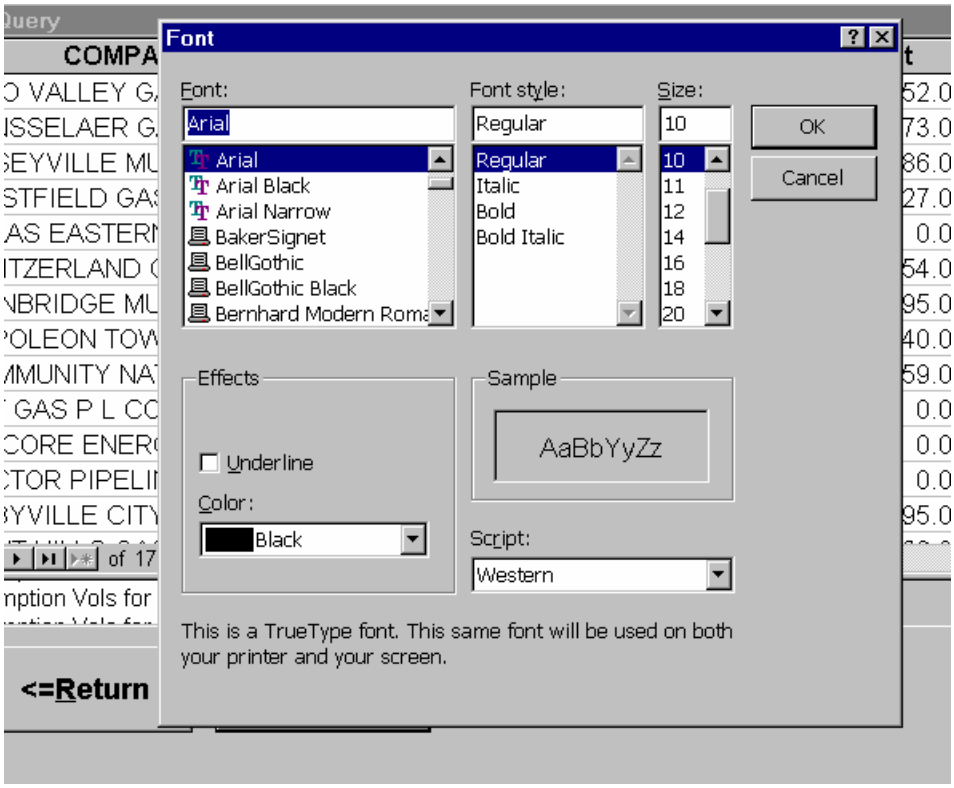
Datasheet



Font - adjusts the type in the grid
Freeze columns -makes the frozen column always appear
Sort Ascending/Descending - sorts the data in the grid by the selected column
Advanced Filter - lets you enter some simple criteria for data in the query.
Apply Filter - is used in conjunction with Advanced Filter
Remove Filter/Sort – removed the Applied Filter

Datasheet items allow you to manipulate the query that you've run.

The **Font** menu item changes the font of the data in the grid.



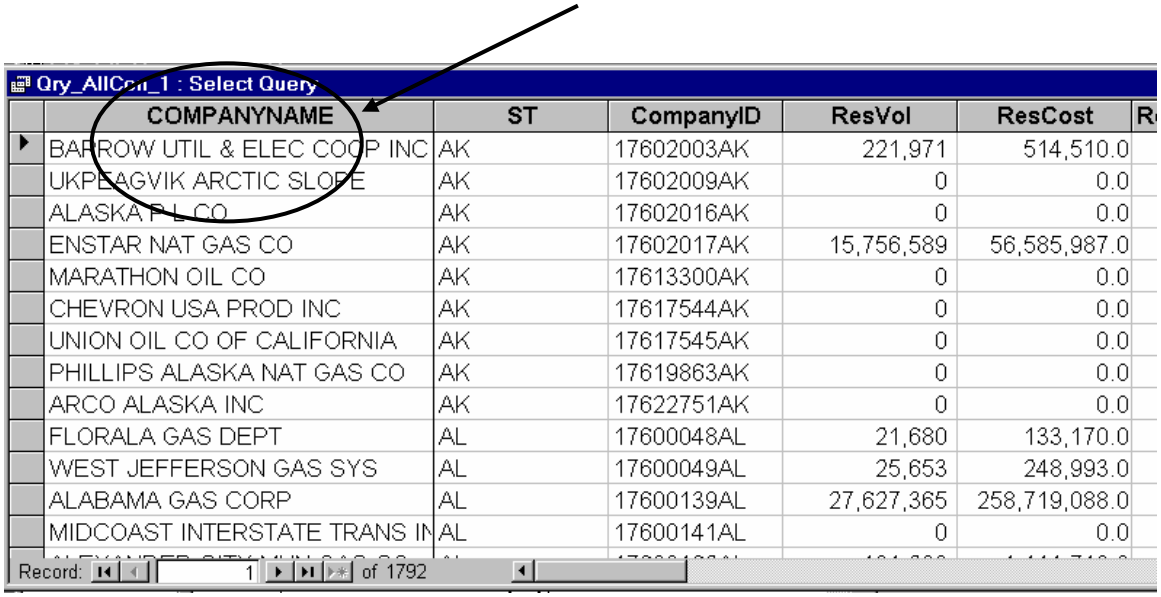
In this example, selecting Bold turns all the items bold.

Qry_AllCon_1 : Select Query

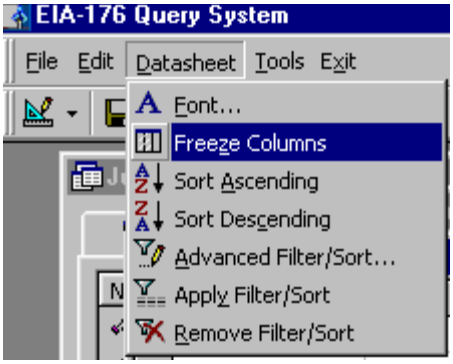
CompanyID	COMPANYNAME	ST	ResVol
17618300IN	OHIO VALLEY GAS INC	IN	440,343
17619004IN	RENSSELAER GAS UTIL DEPT	IN	246,026
17619019IN	POSEYVILLE MUN GAS CO	IN	29,650
17619024IN	WESTFIELD GAS CORP	IN	103,846
17619633IN	TEXAS EASTERN TRANS CORP	IN	0
17619807IN	SWITZERLAND CTY NAT GAS CO	IN	49,851
17619892IN	BAINBRIDGE MUN GAS	IN	25,260
17619912IN	NAPOLEON TOWN OF	IN	13,684
17619913IN	COMMUNITY NAT GAS CO INC	IN	481,939
17680608IN	NAT GAS P L CO OF AMERICA	IN	0
17694105IN	SIGCORE ENERGY SERVICES	IN	0
17694713IN	VECTOR PIPELINE	IN	0
17600032KS	ABBYVILLE CITY OF	KS	4,515

Record: 513 of 1792

The **Freeze** column options lets you always display one column on the screen.
To freeze columns place your cursor in the column you wish to always view. In this example that column is COMPANYNAME.



Pull down on the Datasheet menu item and click Freeze columns.



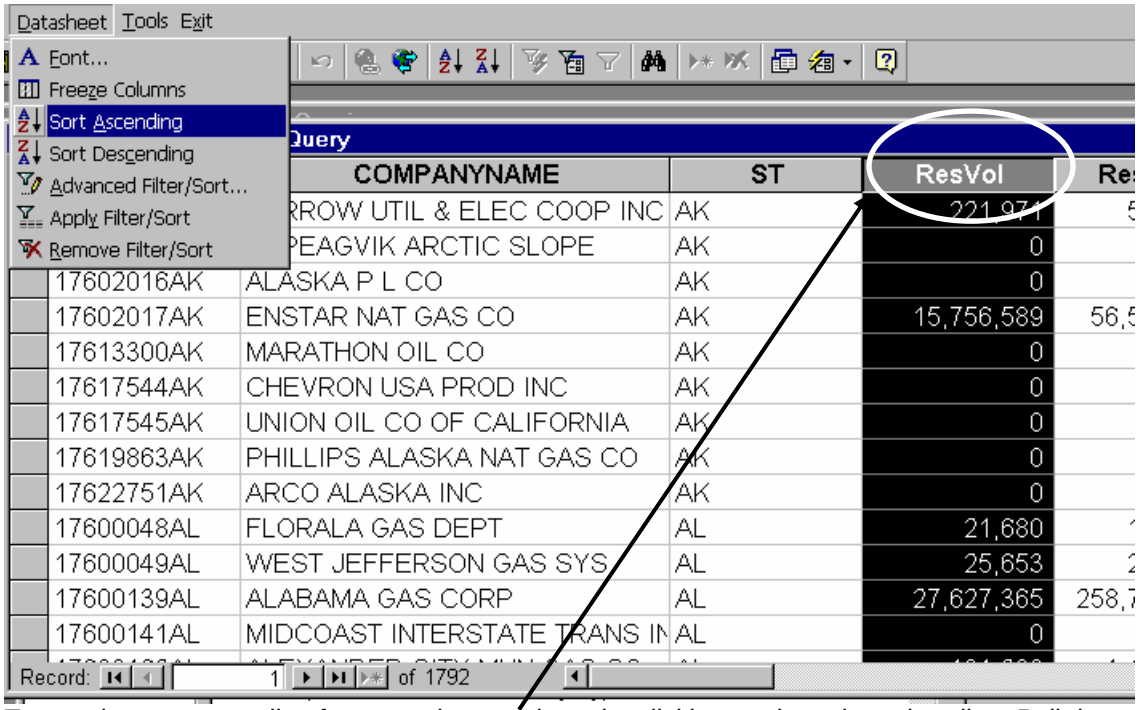
The COMPANYNAME column always appears at the left. Even when scrolling to the right, COMPANYNAME stays on the screen:

Qry_AllCon_1 : Select Query

COMPANYNAME	ComCost	ComConsumer	Othe
BARROW UTIL & ELEC COOP INC	756,030	215	
UKPEAGVIK ARCTIC SLOPE	507,003	3	
ALASKA P L CO	0	0	
ENSTAR NAT GAS CO	21,445,075	12,420	
MARATHON OIL CO	0	0	
CHEVRON USA PROD INC	0	0	
UNION OIL CO OF CALIFORNIA	0	0	
PHILLIPS ALASKA NAT GAS CO	0	0	
ARCO ALASKA INC	9,296,911	25	
FLORALA GAS DEPT	1,305	4	
WEST JEFFERSON GAS SYS	25,366	22	
ALABAMA GAS CORP	78,594,955	33,822	
MIDCOAST INTERSTATE TRANS IN	0	0	

Record: 1 of 1792

Columns can be 'unfrozen' only by exiting the query grid.



To use the sort ascending feature select a column by clicking on the column heading. Pull down the Datasheet menu and click on Sort Ascending. The query will be sorted according to the values in the selected column.

Qry_AllCon_1 : Select Query

CompanyID	COMPANYNAME	ST	ResVol
17680806TX	PANENERGY TEXAS INTRASTATE	TX	0
17694747ND	ALLIANCE PIPELINE	ND	0
17692405FL	SOUTHERN NAT GAS CO	FL	0
17692327IL	SOUTHWEST GAS STORAGE CO	IL	0
17692326MI	SOUTHWEST GAS STORAGE CO	MI	0
17690603MO	KN INTERSTATE GAS TRANSLLC	MO	0
17690514CA	CPN PIPELINE COMPANY	CA	0
17690506MS	DESTIN PIPELINE CO LLC	MS	0
17692726NM	PINNACLE NATURAL GAS CO	NM	0
17681218AR	OZARK GAS TRANS LLC	AR	0
17692724MI	SEMCO ENERGY PIPELINE	MI	0
17680619TX	LOWER COLORADO RIVER AUTHC	TX	0
17680617LA	JEFFERSON ISLAND STRGE & HU	LA	0

Record: 1 of 1792

In the example above the ResVol values are sorted in ascending order, starting with zero.

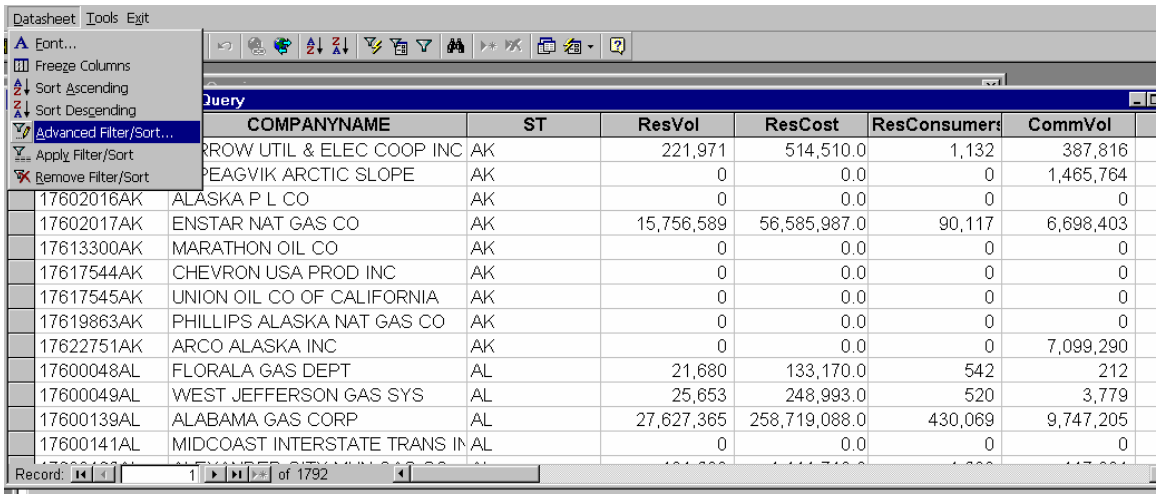
Sort descending works the same way.

Qry_AllCon_1 : Select Query

CompanyID	COMPANYNAME	ST	ResVol
17621931CA	SOUTHERN CALIFORNIA GAS CO	CA	251,452,001
17610322IL	NICOR GAS	IL	221,009,522
17610617CA	PACIFIC GAS & ELEC CO	CA	211,181,852
17617183MI	CONSUMERS ENERGY CO	MI	176,663,600
17609432MI	MICHIGAN CONSOL GAS CO	MI	136,124,328
17611456NJ	PUB SVC ELEC & GAS CO	NJ	132,611,115
17670317OH	EAST OHIO GAS CO	OH	131,187,521
17610960IL	PEOPLES GAS LT & COKE CO	IL	103,856,141
17601565NY	KEYSPAN ENERGY DEL CO	NY	89,463,564
17611459CO	PUB SVC CO OF COLORADO	CO	86,738,306
17616235OH	COLUMBIA GAS DIST CO	OH	78,312,118
17617436TX	TXU GAS DISTRIBUTION	TX	75,700,391
17622739MN	RELIANT ENERGY MINNEGASCO	MN	68,957,997

Record: 1 of 1792

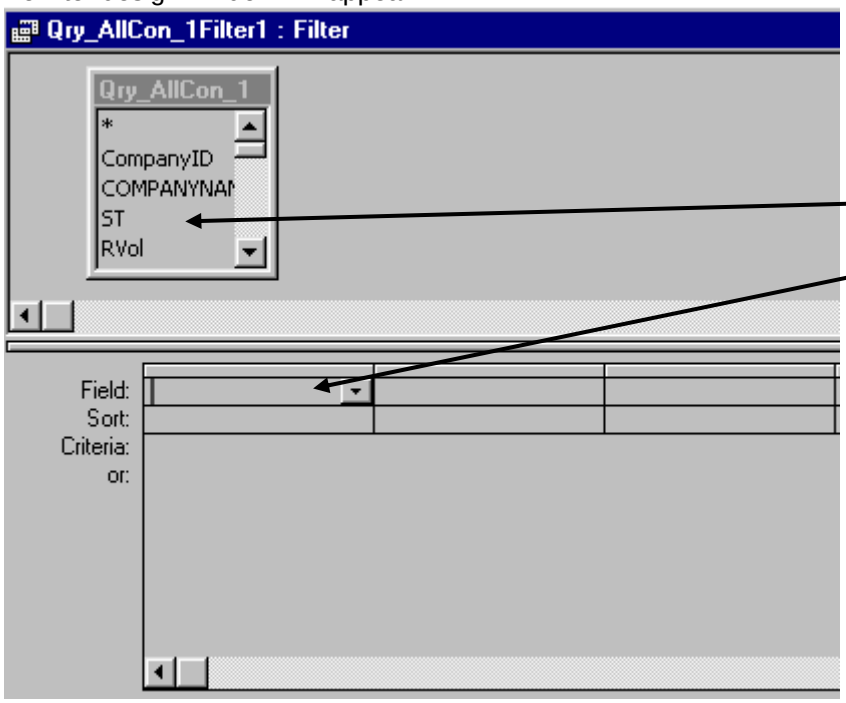
With sort descending the largest values appear first.



	COMPANYNAME	ST	ResVol	ResCost	ResConsumers	CommVol
	RROW UTIL & ELEC COOP INC	AK	221,971	514,510.0	1,132	387,816
	PEAGVIK ARCTIC SLOPE	AK	0	0.0	0	1,465,764
17602016AK	ALASKA P L CO	AK	0	0.0	0	0
17602017AK	ENSTAR NAT GAS CO	AK	15,756,589	56,585,987.0	90,117	6,698,403
17613300AK	MARATHON OIL CO	AK	0	0.0	0	0
17617544AK	CHEVRON USA PROD INC	AK	0	0.0	0	0
17617545AK	UNION OIL CO OF CALIFORNIA	AK	0	0.0	0	0
17619863AK	PHILLIPS ALASKA NAT GAS CO	AK	0	0.0	0	0
17622751AK	ARCO ALASKA INC	AK	0	0.0	0	7,099,290
17600048AL	FLORALA GAS DEPT	AL	21,680	133,170.0	542	212
17600049AL	WEST JEFFERSON GAS SYS	AL	25,653	248,993.0	520	3,779
17600139AL	ALABAMA GAS CORP	AL	27,627,365	258,719,088.0	430,069	9,747,205
17600141AL	MIDCOAST INTERSTATE TRANS IN	AL	0	0.0	0	0

To use the Advanced filter option no rows need to be selected. Just pull down the Datasheet menu and click on the Advanced filter option.

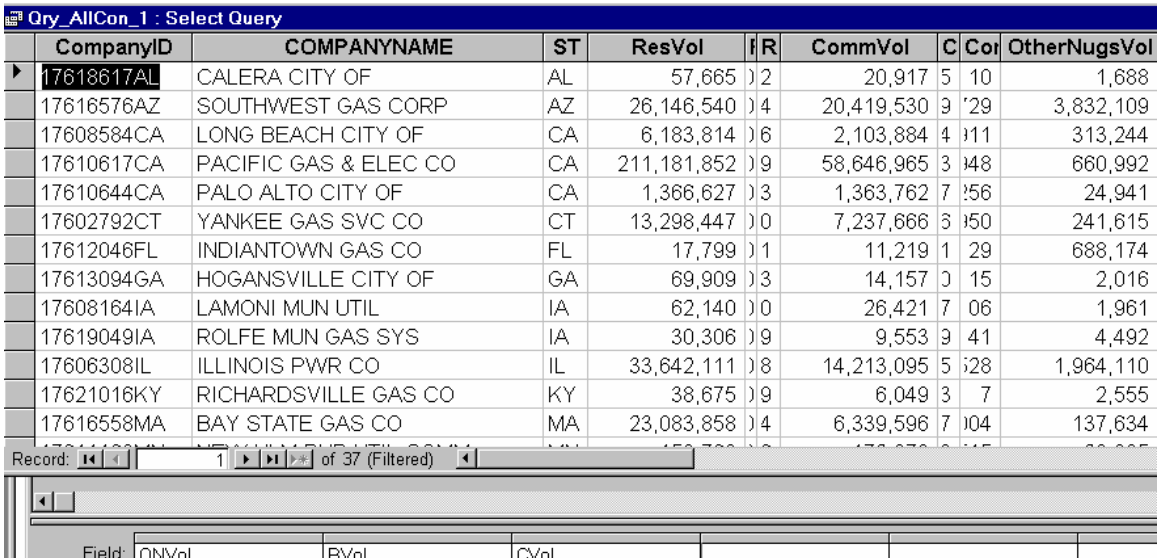
The filter design window will appear.



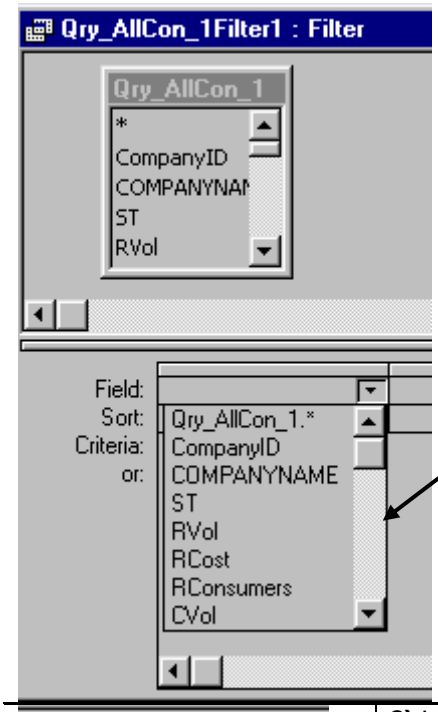
This window can be resized by stretching the edges.

1) The first step is to copy the field you want to search from the field list into the criteria grid.

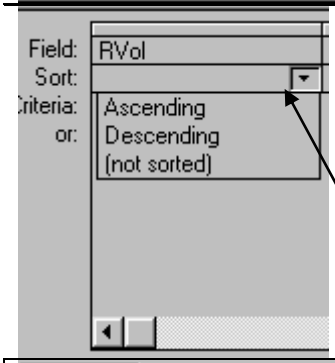
You can either drag the name of the column you want to search or sort by in the upper pane of the window into the criteria grid in the lower pane of the window, or double click on a field to copy it to the next available field cell in the grid.



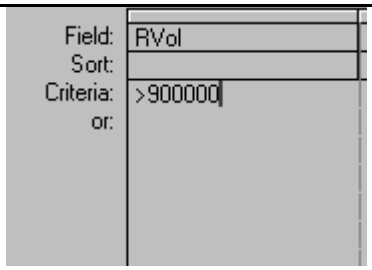
CompanyID	COMPANYNAME	ST	ResVol	R	CommVol	C	Cor	OtherNugsVol
17618617AL	CALERA CITY OF	AL	57,665	2	20,917	5	10	1,688
17616576AZ	SOUTHWEST GAS CORP	AZ	26,146,540	4	20,419,530	9	'29	3,832,109
17608584CA	LONG BEACH CITY OF	CA	6,183,814	6	2,103,884	4	)11	313,244
17610617CA	PACIFIC GAS & ELEC CO	CA	211,181,852	9	58,646,965	3	)48	660,992
17610644CA	PALO ALTO CITY OF	CA	1,366,627	3	1,363,762	7	:56	24,941
17602792CT	YANKEE GAS SVC CO	CT	13,298,447	0	7,237,666	3	)50	241,615
17612046FL	INDIANTOWN GAS CO	FL	17,799	1	11,219	1	29	688,174
17613094GA	HOGANSVILLE CITY OF	GA	69,909	3	14,157	0	15	2,016
17608164IA	LAMONI MUN UTIL	IA	62,140	0	26,421	7	06	1,961
17619049IA	ROLFE MUN GAS SYS	IA	30,306	9	9,553	9	41	4,492
17606308IL	ILLINOIS PWR CO	IL	33,642,111	8	14,213,095	5	:28	1,964,110
17621016KY	RICHARDSVILLE GAS CO	KY	38,675	9	6,049	3	7	2,555
17616558MA	BAY STATE GAS CO	MA	23,083,858	4	6,339,596	7	)04	137,634



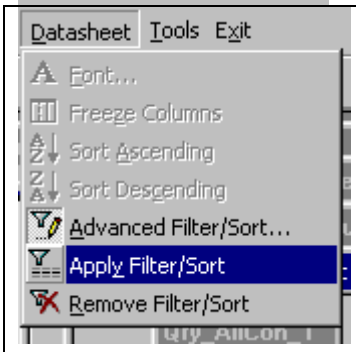
2) By clicking on the Field column in the lower pane you can get a list of fields in the query.



3) In this example we've selected the RVol field.
You can pull down the sort cell and specify a sort order if you want.



4) In the Criteria cell we've entered a condition that Rvol be greater than 900000.



5) Click on the Apply/Filter Sort toolbar button when you're ready to apply the filter. Any records that don't meet the criteria you specified will disappear from the view. They have been filtered out. If you click on the Remove Filter/Sort button they will appear again.

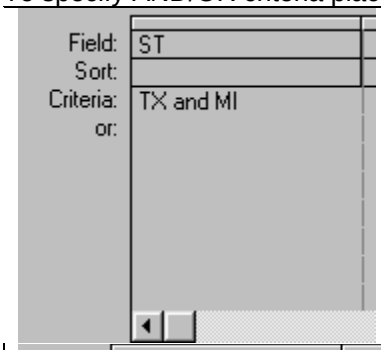
COMPANYNAME	ST	ResVol
R NAT GAS CO	AK	17,418,738
MA GAS CORP	AL	26,272,623
/ILLE NAT GAS DEPT	AL	1,791,406
EAST ALABAMA GAS DIST	AL	1,729,012
GAS SVC CORP	AL	4,042,643
IATED NAT GAS CO	AR	1,232,041
SAS WESTERN GAS CO	AR	6,610,113
SAS OKLAHOMA GAS COF	AR	2,970,624
T ENERGY ARKLA	AR	25,186,915
ITY OF	AZ	1,024,299
/EST GAS CORP	AZ	24,913,465
S UTIL ARIZONA GAS DI V	AZ	5,527,658
EACH CITY OF	CA	6,683,055
GAS & ELEC CO	CA	234,195,449

6) The rows that appear should meet the criteria. A note: on full survey datasets it helps to have plenty of memory available. If you run a filter and nothing changes you may not have enough memory to process.

If you have enough memory, you are not limited to one field or value. You can select several fields in the criteria grid. The EIA-176 Query system offers standard operators

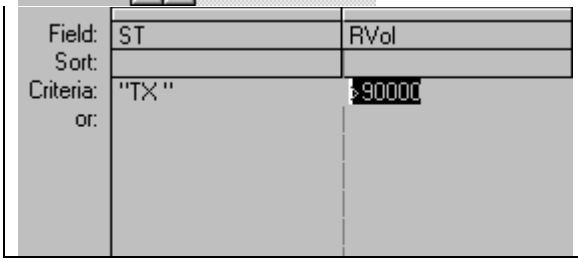
=	Equals
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to
<>	Not

To specify AND/OR criteria place the operators in different rows of the criteria grid.



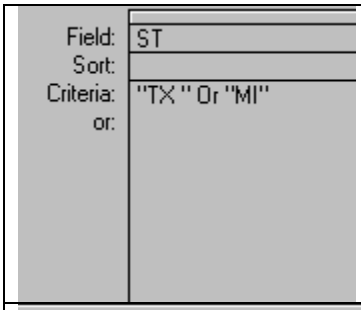
To express AND criteria within a single field use the AND operator

This filter asks for a State value of TX AND MI.



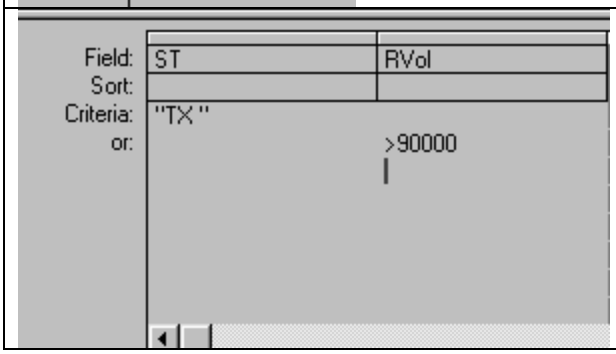
To express AND criteria between fields put each criteria on the same row of the criteria grid.

This statement asks for ST equal to TX and Rvol > 90000.



To express OR criteria within a single field use the OR operator.

This statement asks for ST equal to TX OR MI

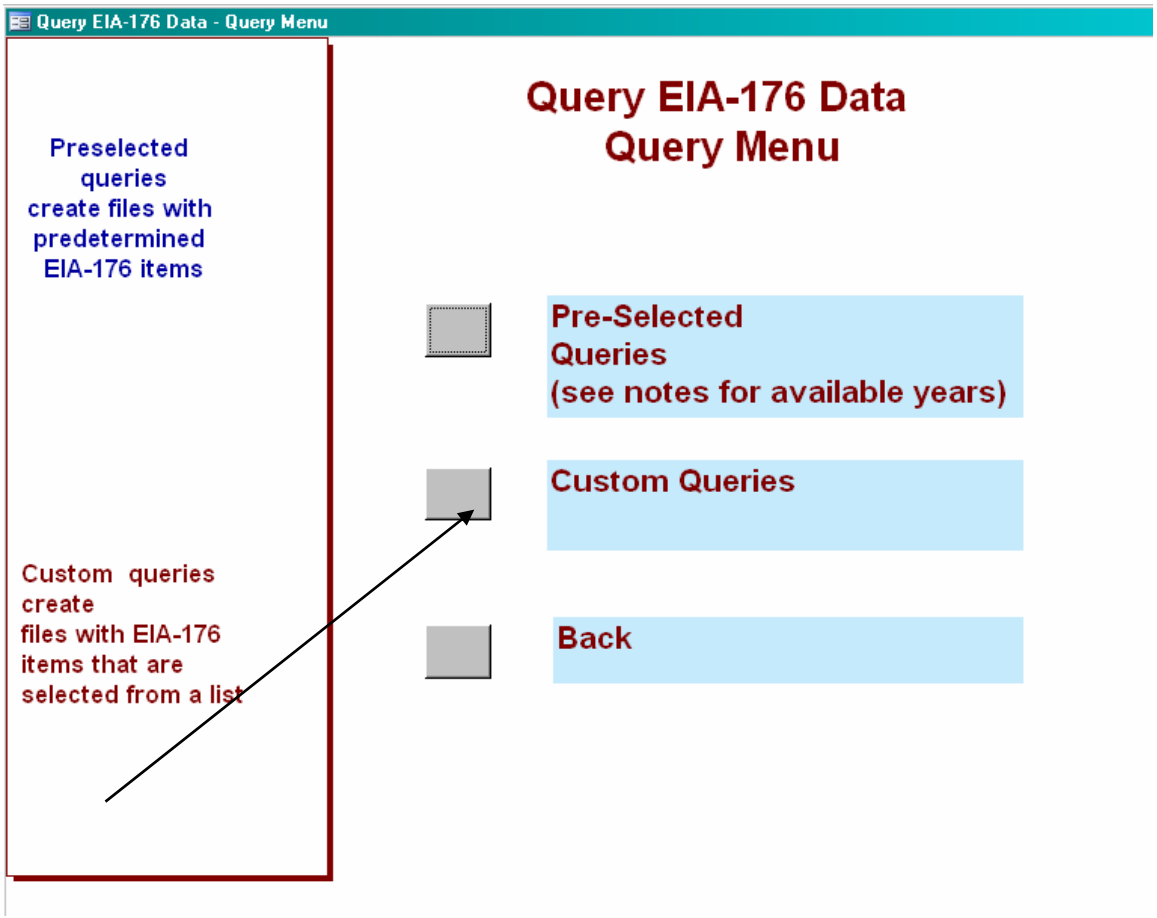


To express OR criteria between multiple fields place the criteria on separate rows of the criteria grid.

This statement asks for ST equal to TX or Rvol > 90000.

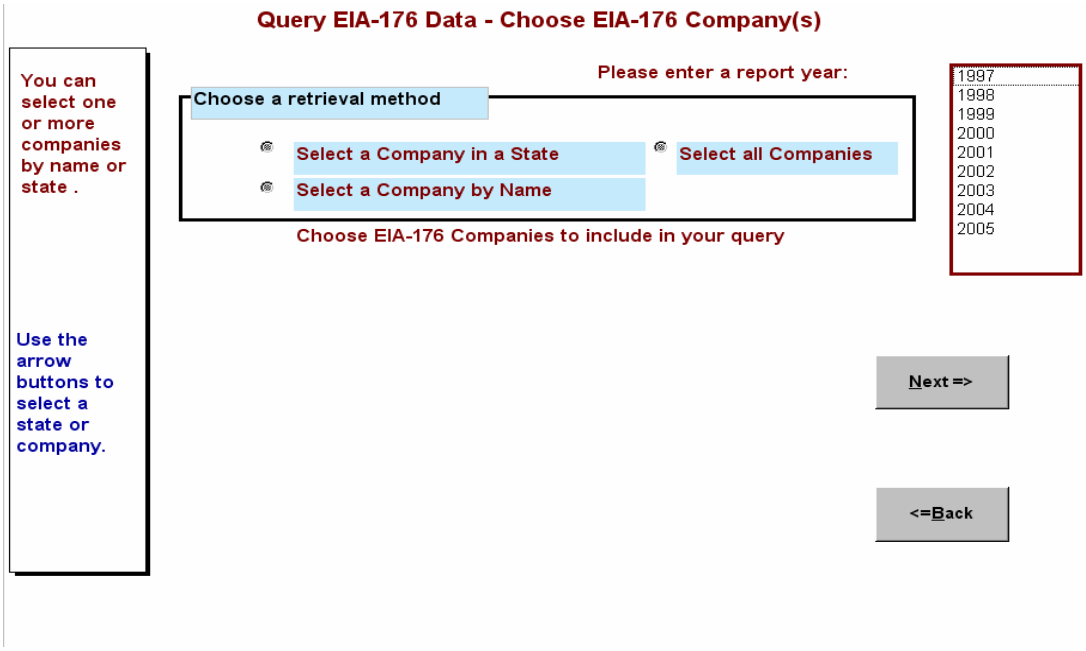
3.3.2 - Custom Queries

The **Custom Queries** option allows you to choose individual data items from the entire EIA-176 for inclusion in datasets. The methods are similar to those used in the Pre-selected queries.



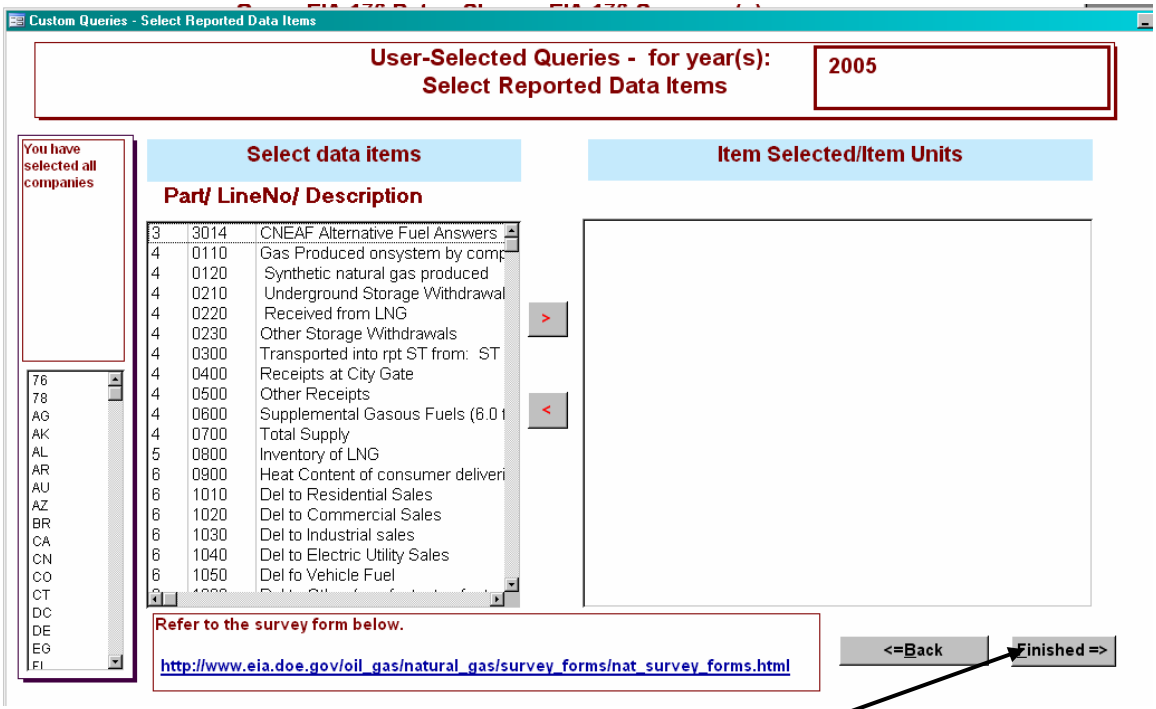
3.3.2.1 View EIA-176 Company Menu

First you will be prompted to select Companies and Year. This screen is similar to the Company selection screen in other parts of the query.



After you've selected companies and the year, you will go onto the Select Reported Data Items button. You'll be presented with a list of EIA-176 form data lines to pick from

3.3.2.2 Pick Reported Lines



Each line item with data from the form is represented with a short description. The Part and Line Number is also included. The highlight method is similar to that in the Company screen.

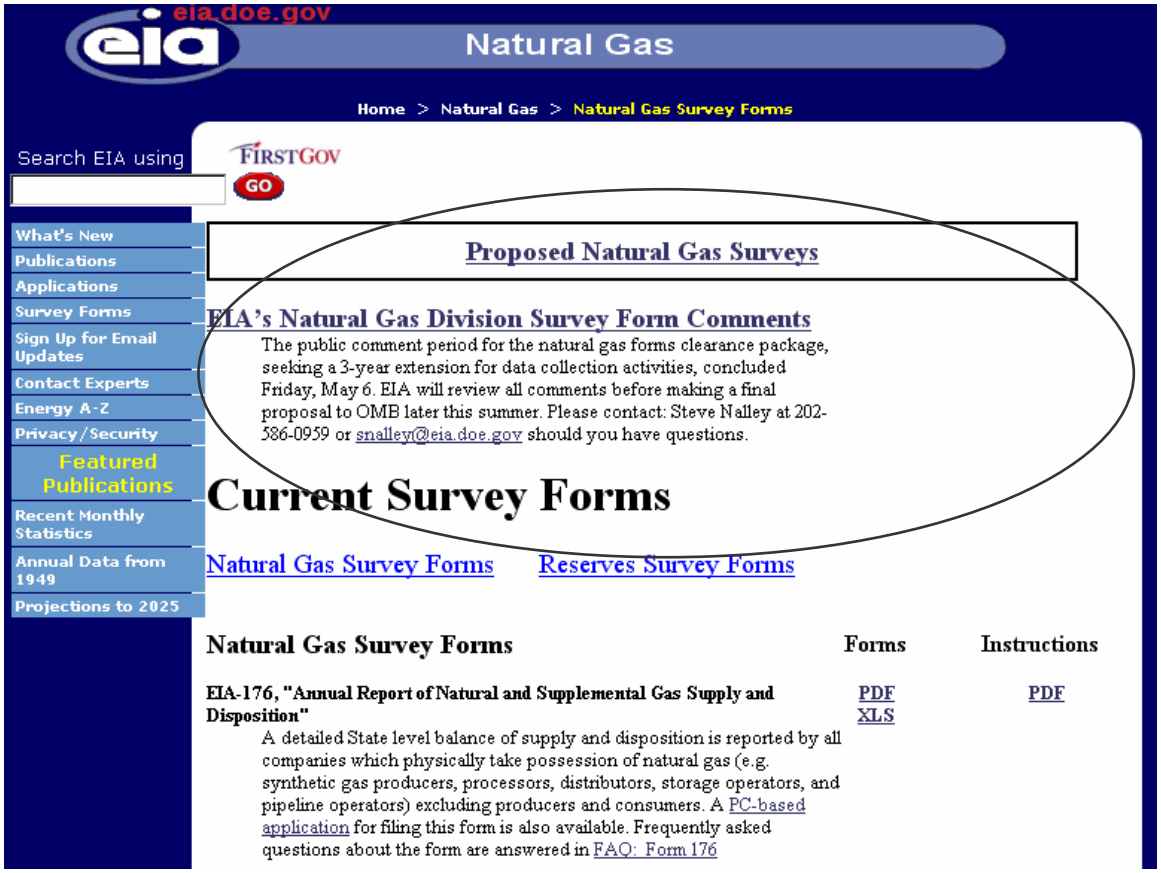
Once all your selections have been made click **Finished Selecting**.

The items are labeled like the lines on the survey form. If you select the 'Natural Gas Survey Forms' hyperlink you'll be taken the Natural Gas survey form page, and can view a copy of the EIA-176 survey form and instructions. If you have questions about which items you want to see this can be useful.

The units of the survey items are available in the Selected Items box after you select them:

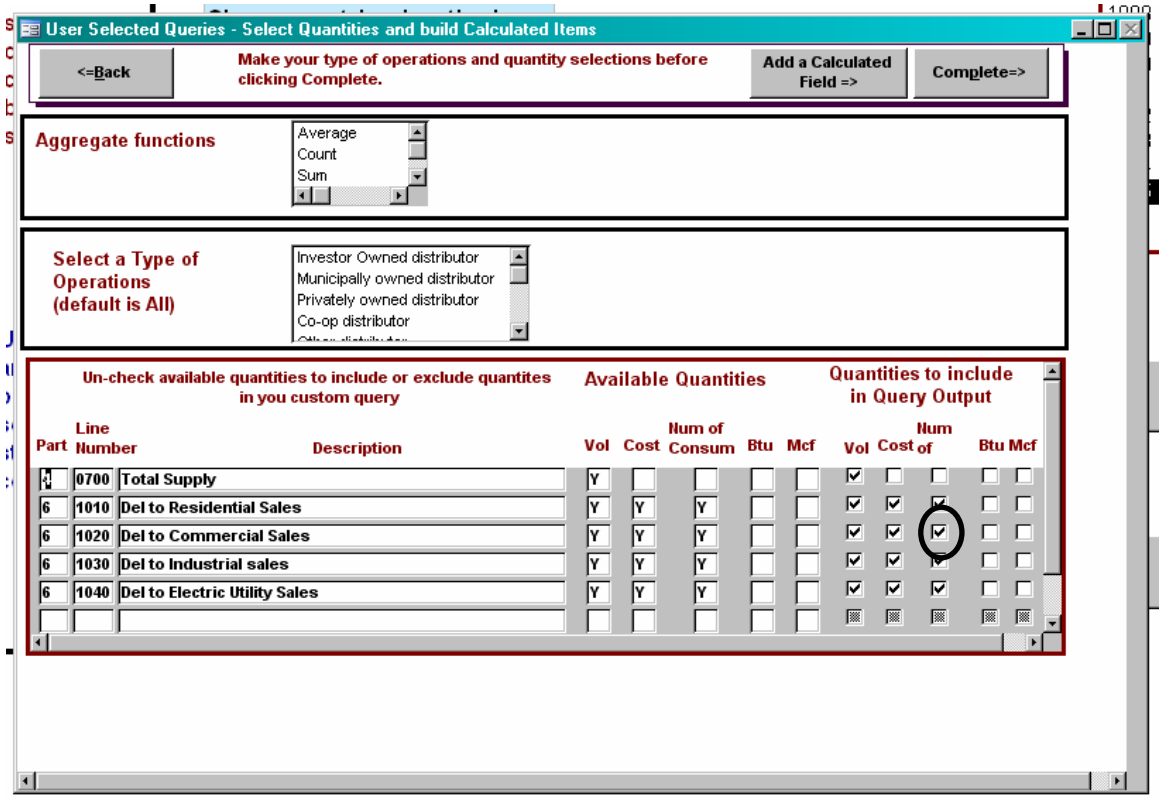
Item Selected/ Item Units

4	0700	Total Supply	Mcf
6	1010	Del to Residential Sales	Mcf, Dollars, Count of Cons
6	1020	Del to Commercial Sale:	Mcf, Dollars, Count of Cons
6	1030	Del to Industrial sales	Mcf, Dollars, Count of Cons
6	1040	Del to Electric Utility Sal	Mcf, Dollars, Count of Cons



3.3.2.3 Select Quantities and Build Calculated Items

The Select Quantities and build Calculated Items screen has three parts.
Aggregate functions
Select Company Available Quantities.
Calculated field.



Available Quantities:

For each line item you select this portion of the screen will have a row.
The **Available Quantities** portion shows you what quantities are available for this item.
The **Quantities to include** portion allows you to include or exclude quantities.

.

For this example, if you aren't interested in the Number of Consumers for deliveries to Residential Sales, you would use the mouse to deselect that item, and it won't appear in your query data file.

Type Of Operations

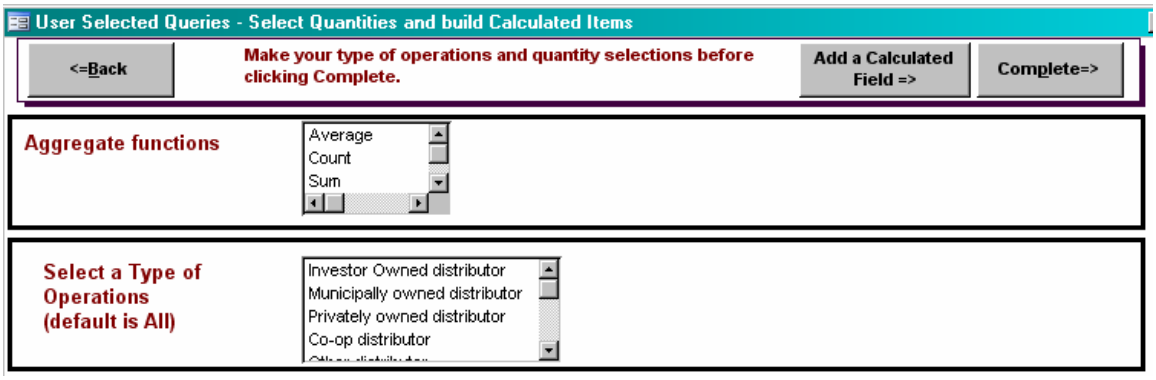
You can select multiple Types of Operations if you choose.

If no selection is made, all types are included. If they are all included they are not identified.

Aggregate functions

When you select Aggregate functions other options become disabled.

The Aggregate functions provide summary statistics for all the companies selected. The Aggregate functions, the Type of Operations, and the Add calculated functions are mutually exclusive.



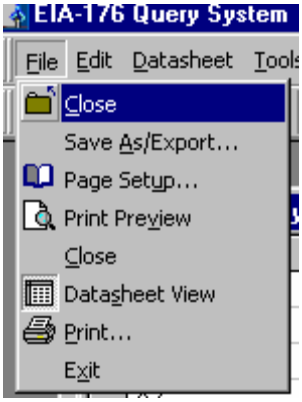
In the following example the Aggregate function has been grouped by Delivered to Consumers

Dynamic_Query : Select Query

ST	Year	SmDlResSalVl	SmDlResSalCs	SmDlResSalN
AK	2000	17633864	64256459	88924
AL	2000	42426740	353824275	770220
AR	2000	36244801	261571912	554121
AZ	2000	32940263	300781424	802469
CA	2000	564574838	3737597351	9318830
CO	2000	111748319	601688106	1265032
CT	2000	38364174	404416826	442457
DC	2000	13182680	114736868	126714
DE	2000	8862099	76480714	115961
FL	2000	13688251	158653956	556627
GA	2000	59425592	259730510	867480
HI	2000	523675	9933834	30708
IA	2000	71408355	435303833	798790

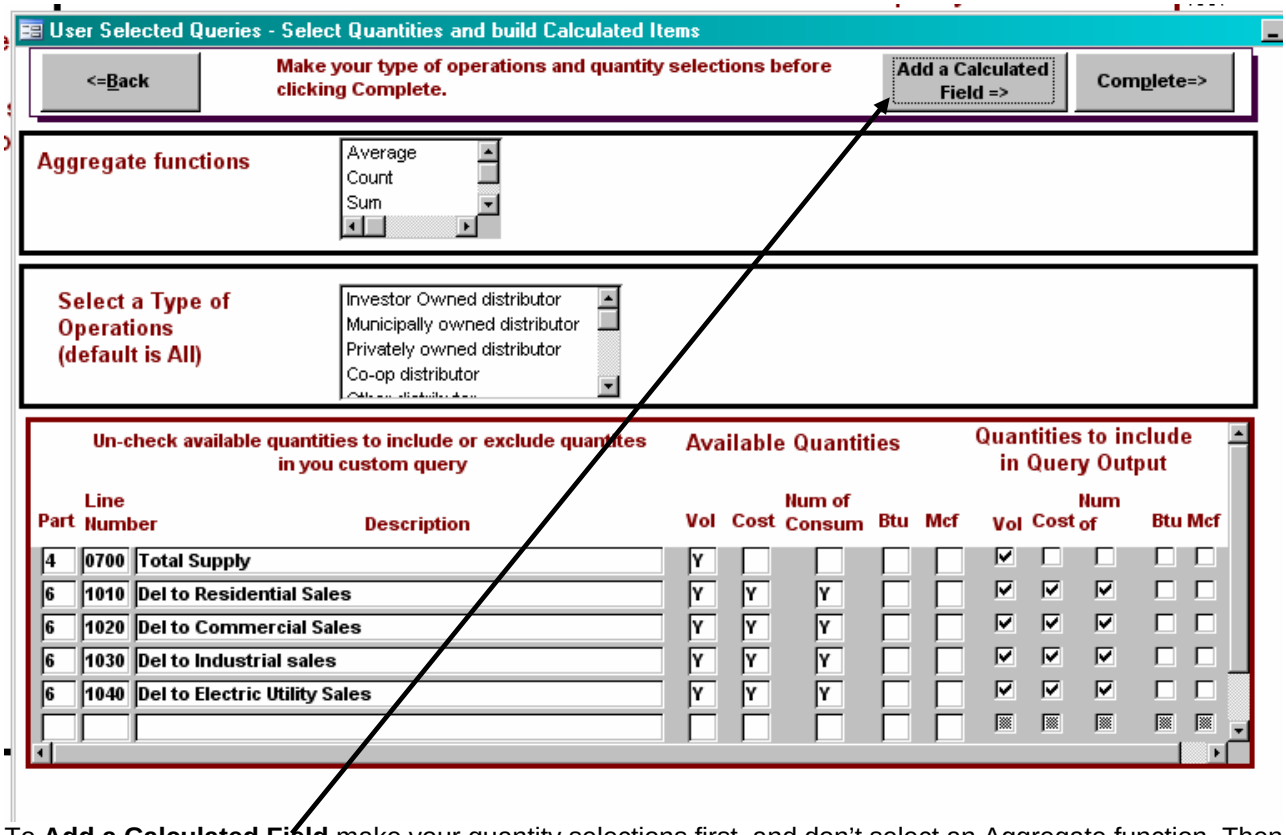
Record: 1 of 51

The results of the query with sum aggregate function. Notice that the column headers all start with Sm – for Sum.

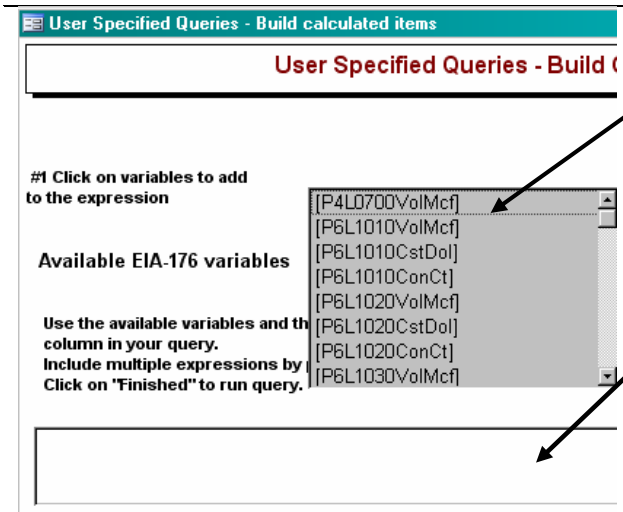


The File menu provides your query output options. Close – closes the query and returns you to the selection screen.

When you return to the selection screen your company, year and data item selections will still be in place. Any aggregate functions will be cleared.

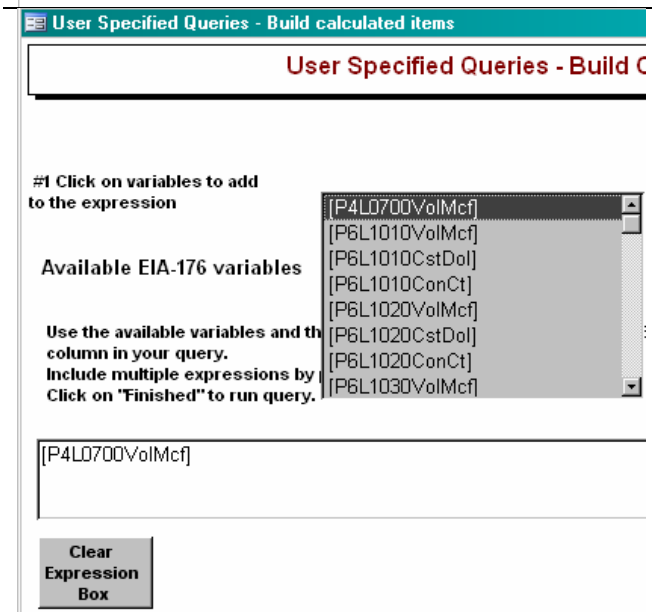


To **Add a Calculated Field** make your quantity selections first, and don't select an Aggregate function. Then click on the **Add a Calculated Field** button. This opens another window.



Choose variables from this list.

Your expression will appear here.

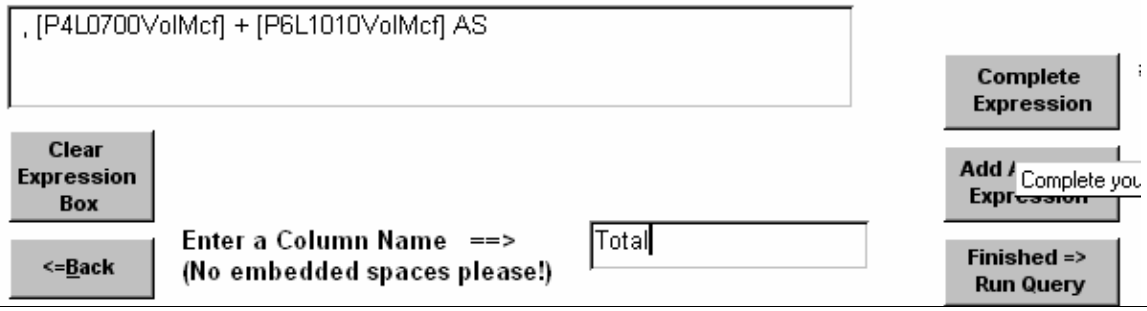


When you click on a variable in the Available box, then it will appear in the expression box.

Click on operators to specify your calculation.

+	<= Add
-	<=Subtract
*	<=Multiply
/	<=Divide
(	<=left parenthesis
)	<=right parentheisi

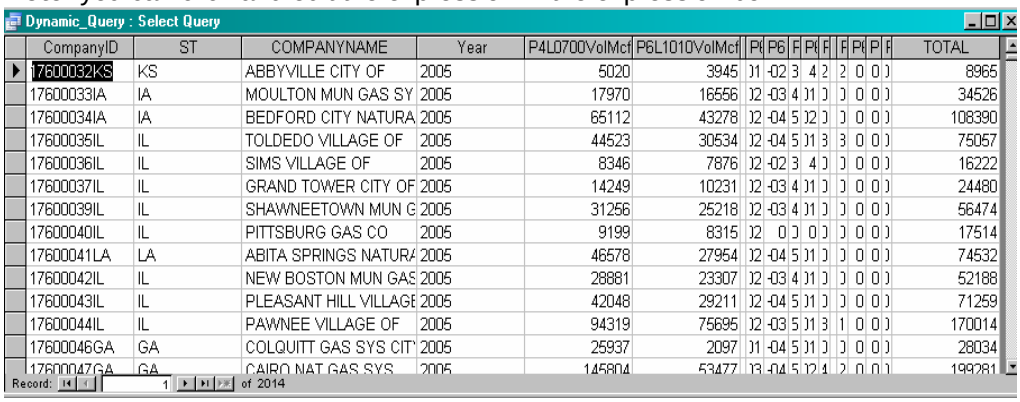
Once you've built your expression, click on **Complete Expression** to finish.



You must name your expression in the Enter a Column Name box.

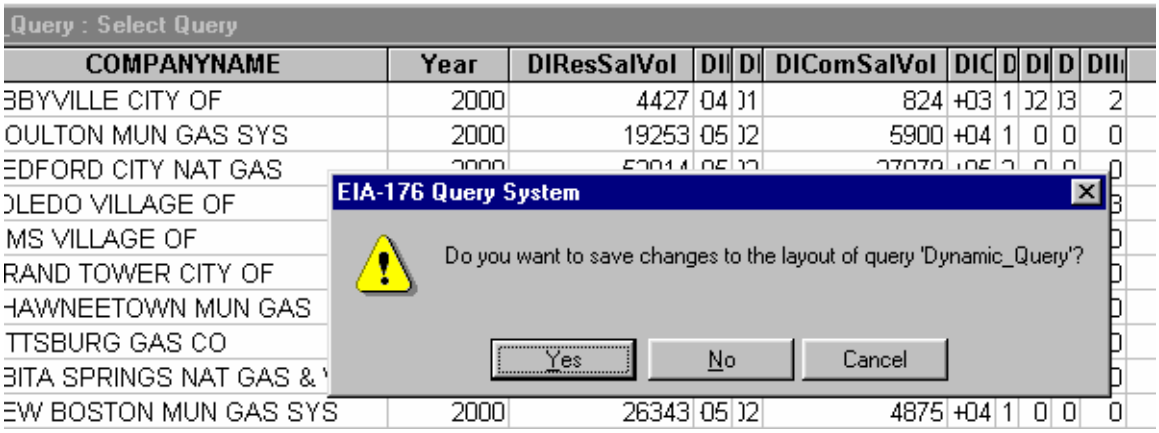
If you want to add another expression click add **Another Expression=>**.
The expression box will be cleared out and you can start another expression. Your first expression will be held for the query.
When you are finished, click **Finished=> Run Query**. This will immediately run the query.

Note: you can click and edit the expression in the expression box.

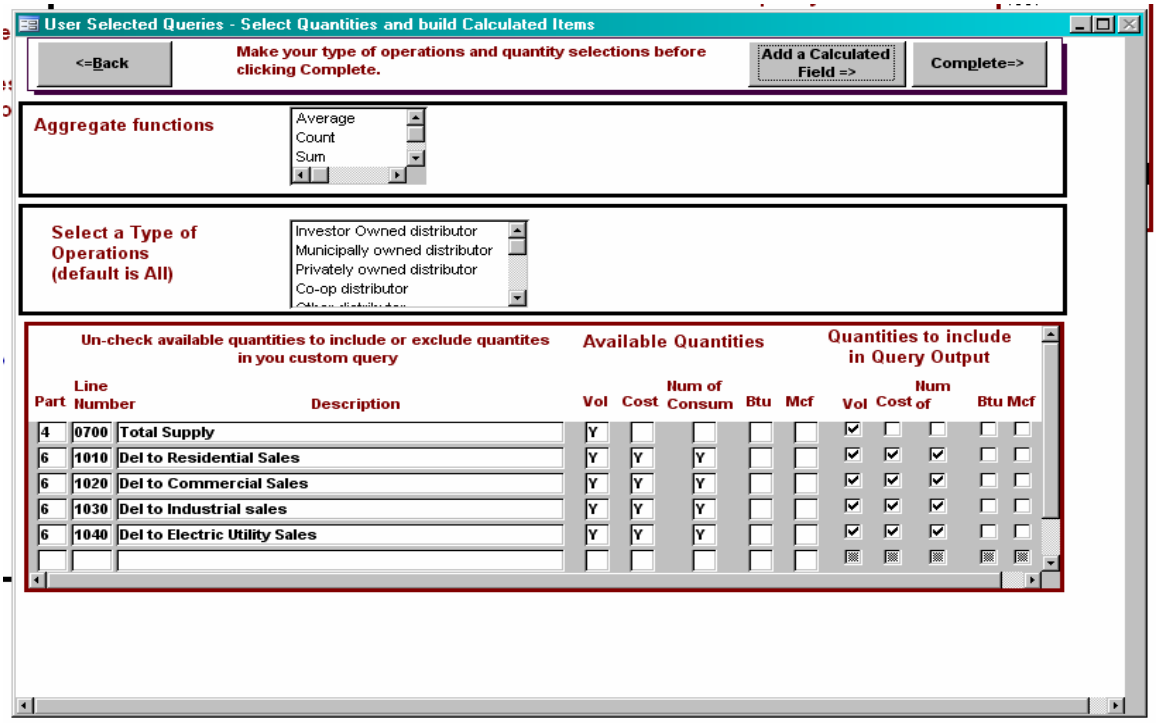


The columns have been resized and hidden (by clicking in the column headers) to show the TOTAL variable. It is the sum of DLResSalVol And DlComSalVol.

Because the columns were edited in the datasheet, this prompt appears after choosing the Close option from the File Menu. Dynamic_Query is where user selected-queries are temporarily stored. It does not matter if they are saved or not.



After you close the query you're returned to the **Select Quantities and build Calculated Items Menu**.



To run the query you just constructed again you can click **Run Query**.

Exit returns you to the main queries menu.

Appendix A – EIA-176 Survey Form

Appendix B – Pre-Selected Query Items

Query description	Query Memo
Answers to Question in Part II about Alternative Fuel Vehicles	This Query has the answers from companies on Part 3. This data is only available in 2005.
All Part IV & V Items (Volumes)	This Query has all Part IV & V Volume items.
All Part VI Items (Volumes, Costs)	This Query has all Part VI Volume and Cost items.
All Sector Items (Volumes, Costs, Consumers)	All consumption items by part and line number. In an easy to pivot format for Excel.
All Sector items sorted by state	This query includes company data sorted by state for lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6. Volumes and Number of Consumers are available for all lines. Costs are only available for lines 10.1 thru 10.4, and 10.6.
Sector Sector Prices	Consumption Sector Prices in an easy to pivot format for multiple years
Residential Sector Volumes - Delivered, Transported, Total	Residential sector volumes - delivered, transported and total.
Company Name Information	This query includes the Company Name, State of Operation and the Type of Operations category they reported.
Commercial Sector Volumes	Commercial sector volumes - delivered, transported and totals.
Detail level Continuation Lines	This query shows continuation lines with the company reference for Parts 4 & 5.
Interstate Movement Lines (3.0 and 14.0)	This Query shows lines 3.0 and 14.0. It can be pivoted in Excel to replicated Table 12 from the Natural Gas Annual.
Industrial Sector Volumes	Industrial sector volumes - delivered, transported and totals.
Footnotes and Associated Data Values	This query shows data values and associated footnotes for selected companies.
Sector Vols sorted by sector	This query includes company data sorted by sector - Residential, Commercial, Industrial, Electric, and Vehicle Fuel . The query includes volumes with delivered and transported items.
Electric Sector Volumes	Electric sector prices - delivered, transported, and totals.
Sector Vols ranked nationally	This query includes company data sorted by volume amounts. Consumption delivered to consumer items - lines 10.1 thru 10.4, and 10.6 are added to consumption transported items -lines 11.1 thru 11.4 and 11.6 to rank companies nationally.
Vehicle Fuel Volumes	Vehicle Fuel Volumes - delivered, transported and totals.
Total Delivered including 176 Electric	This query has sectors including electric.
Sector Vols ranked by state	This query includes Company data sorted and ranked by volume amount by state. Consumption delivered to consumer items -lines 10.1 thru 10.4, and 10.6- are added to consumption transported items -lines 11.1 thru 11.4 and

Query description	Query Memo
	11.6.
LNG & Underground Gas Storage	This Query has LNG and Underground Storage Injections & Withdrawals, as well as LNG Inventory at the end of the year.
Sector Prices sorted by sector	This query includes prices for consumption data - lines 10.1 thru 10.4, and 10.6 - only. Costs are not collected for transported consumption sector.
Sector Vols for Investor Owned Distribution Companies	This query includes only companies who checked A on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Municipally Owned Distribution Companies	This query includes only companies who checked B on Section II. Type of Operations. It covers lines 10.1 thru 10.4 and 10.6. who checked B on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Privately Owned Distribution Companies	This query includes only companies who checked C on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Cooperatively Owned Distribution Companies	This query includes only companies who checked D on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Other Distribution Companies	This query includes only companies who checked E on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Interstate Pipelines	This query includes only companies who checked F on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Intrastate Pipelines	This query includes only companies who checked G on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Storage Operators	This query includes only companies who checked H on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Synthetic Natural Gas Plant Operators	This query includes only companies who checked I on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Producers	This query includes only companies who checked J on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Gathers	This query includes only companies who checked K on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Liquefied Natural Gas (LNG) Operators	This query includes only companies who checked L on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.
Sector Vols for Other Operators	This query includes only companies who checked M on Section II. Type of Operations. It covers lines 10.1 thru 10.4, and 10.6 and lines 11.1 thru 11.4 and 11.6.

Appendix C – User Selected Query Item names

UserQueryName	UQPart	UQLin
Number of Alternative Fuel Vehicles	3	3014
Gas Produced onsystem by company	4	0110
Synthetic natural gas produced	4	0120
Underground Storage Withdrawals	4	0210
Received from LNG	4	0220
Other Storage Withdrawals	4	0230
Transported into rpt ST from: ST or Cntry	4	0300
Receipts at City Gate	4	0400
Other Receipts	4	0500
Supplemental Gasous Fuels	4	0600
Total Supply	4	0700
Inventory of LNG	5	0800
Heat Content of consumer deliveries	6	0900
Del to Residential Sales	6	1010
Del to Commercial Sales	6	1020
Del to Industrial sales	6	1030
Del to Electric Utility Sales	6	1040
Del fo Vehicle Fuel	6	1050
Del to Other (see footnotes for type)	6	1060
Trans to Residential Consumers	6	1110
Trans to Commercial Consumers	6	1120
Trans to Industrial Consumers	6	1130
Trans to Electric Utilities	6	1140
Trans for Vehicle Fuel use	6	1150
Trans to Other (see footnotes for type)	6	1160
Pipeline Compressor Use	6	1210
New Pipeline Fill	6	1220
Distribution Company Use	6	1230
Other (see footnotes for type)	6	1240
Underground Storage Injections	6	1310
Liquefied natural gas (LNG) Injections	6	1320
Other Storage Injections (see footnotes for type)	6	1330
Trans to State Line: Comp ST/Cntry	6	1400
Lease Use	6	1500
Returned to oil and/or gas reservoirs	6	1600
Losses from leaks, migration, damage and/or	6	1700
Other Disp: Distribution Companies	6	1810
Other Disp: Other Pipelines	6	1820
Other Disp: Storage Operators	6	1830
Other Disp: Other (Specify type)	6	1840
Total Disposition	6	1900
Unacc't for gas supply	6	2000