

SQL Query Builder & Editor

Tutorial #7

Last Revision: July 2006

Introduction

This tutorial was designed to assist DataLinks users with creating and running queries using the new SQL Query Builder & Editor option. New users or users unfamiliar with the DataLinks system may need to refer to Tutorials #1 and #2 before using the SQL Builder. This document assumes the user is familiar with concepts covered in the first two tutorials. In addition, SQL Builder is an advanced feature and users should have some knowledge of the SQL query language. Teaching users how to create SQL queries is beyond the scope of PerCon technical support.

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SQL Query Builder & Editor Overview

Selecting The SQL Builder Option

After logging into the system, a list of database categories is displayed. To select the SQL Builder, click on **FCC Master Frequency Database-SQL Query Builder & Editor** from the **FCC Frequency Database** category.

Note: The SQL Builder option is only available to DataLinks users with unlimited access accounts. Please contact PerCon for more information.

[FCC Frequency Databases](#)

[FCC Master Frequency Database](#)

[FCC Master Frequency Database](#)

[FCC Master Frequency Database - SQL Query Builder & Editor](#)

[FCC Pending Database](#)

[FCC Master Frequency and Pending Database](#)

[FCC-GMRS](#)

[FCC Paging Database](#)

[FCC Master Frequency Index File](#)

[FCC-MDS / ITFS](#)

[FCC License Audit](#)

[FCC Assignments & Transfers Database](#)

[FCC ULS Searches](#)

[FCC ULS Searches - Applications](#)

[FAA Frequency Database](#)

[FCC Ship Radio Service - CFR Part 80 Database](#)

[FCC Market Database](#)

[FCC Antenna Registration Databases](#)

[Canadian Databases](#)

[What's in it.](#)

- Online - Updated Daily

- **TEST** - Updated Daily

- **Online** - Updated Daily

- Online - Updated Daily

- Online - Updated Daily

- Online - Updated Daily

- Online - Updated Monthly

- Online - Updated Daily

- Online - Updated Bi-Weekly

- Online - Updated Daily

- Online - Updated Monthly

- **BETA** -

- **BETA** -

- Online -

- Online - Updated Monthly

- Online - Updated Daily

[What's in it.](#)

[What's in it.](#)

SQL Builder & Editor Main Window Description

Field:

The Field menu allows the user to select any field available from the current database.

Operator:

The operator menu allows the user to select an operator for the query, such as =, !=, >, <, >=, <= and Like to perform comparisons.

Value:

Users will enter the search value in to the Value field. Values can be either character or numeric.

Connector:

Users can select AND / OR from the connector menu when using multiple query conditions or No Connector for single condition queries

Advanced SQL Query Builder & Editor

Field Frequency Operator Equal Value Connector AND Add

Add (Add)

Query

SEQUENCE
OUTPUT FORMAT
ACTIVE ONLY
NO NEXTEL
VERTICAL MARKET
MFF
EXACT MATCH
STATISTICS
Client / Project Code

Frequency
Brief
- No Vertical Market -

Submit Reset

Query:

The query text box will display the query conditions as they are added with the Add button. The text box can be edited manually. In addition, the queries can be saved and reused using the web browser's Copy & Paste features and saving the queries in a separate text file using a text editor such as Notepad. See page 14 for additional information.

Add (/ Add):

The Add (& Add) buttons are used to add parenthesis to queries so that conditions can be grouped.

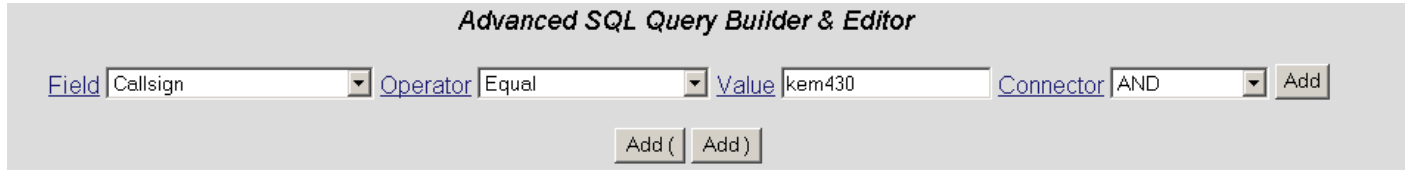
Add:

The Add button adds the current condition to the query and displays the complete query in the query text box.

Sample SQL Queries

Sample Query #1: Search by Callsign

Step 1: Select Callsign from the Field menu.



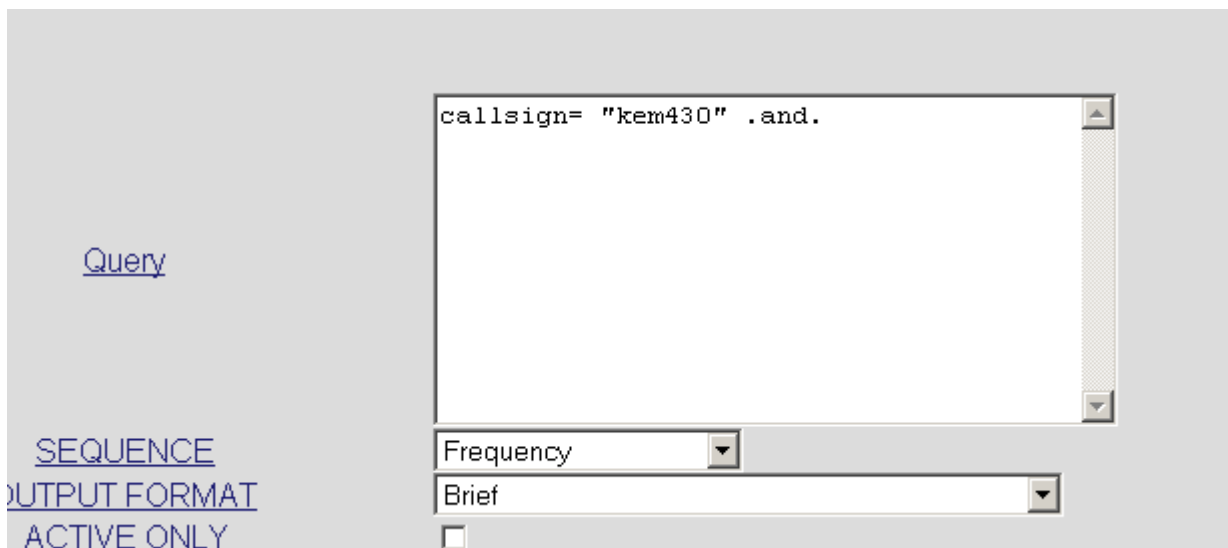
The search criteria show in the above screen shot is valid and can be used as test values.

Step 2: Select Equal from the Operator menu.

Step 3: Enter a Callsign value in the Value field. In this example, the Callsign KEM430 is used.

Step 4: Select the No Connector option from the Connector menu.

Step 5: Click the Add button to add the query condition to the query. The complete query is displayed in the query text box.



SQL Query Language to English Language Translation: The query in this example roughly translates to the following in English:

SQL
Callsign="kem430"

English
= Find all records with Callsigns that match (or equal) the value KEM430.

Step 6: Click the Submit button to run the query displayed in the Query text box. The output for this sample query should look like the following screen capture:

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DataLinks

PerCon DataLinks - FCC Master Frequency Database - SQL Query Builder & Editor

The results of your search are also in the following file: [Excel file](#)

FREQUENCY	CALLSIGN	COMPANY NAME	RS	CS	CITY	STATE	COUNTY	LAT / LONG	FILE NUMBER	FAA ID	STATUS
46.10000	KEM430	BEMUS POINT, VILLAGE PW MO				NY		000000/0000000			A
46.10000	KEM430	BEMUS POINT, VILLAGE PW FB			BEMUS POINT	NY	CHAUTAUQUA	420931/0792333			A
46.14000	KEM430	BEMUS POINT, VILLAGE PW MO				NY		000000/0000000			A
46.14000	KEM430	BEMUS POINT, VILLAGE PW FB			BEMUS POINT	NY	CHAUTAUQUA	420931/0792333			A

FOUND 4 RECORDS IN 0.16 SECONDS
 PROCESSED HTML IN 0.09 SECONDS
 DATE: 07/03/06
 Time: 13:30:33

PREVIOUS CREDIT(S): UNLIMITED
 CREDIT(S) USED: 1
 CREDIT(S) REMAINING: UNLIMITED
 EXPIRATION DATE: 02/09/09

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Step 7: It is important to note the SQL Builder option can be used to perform the exact same searches as the predefined queries. In this case selecting the Callsign In the Region/US search using KEM430 would return the exact same results.

PerCon Corporation
DataLinks

PerCon DataLinks - CIX.PerConCorp.com/login.html

Callsign	Callsign In the Region / US	Callsign - 5 Entries
Callsign - Wildcard	Callsign In the Region / US - Wildcard	
DBA Name	DBA Name	DBA Name

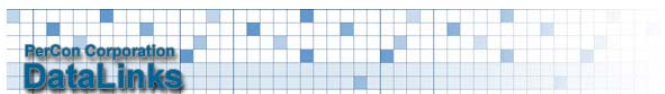


Callsign In the Region / US

- [Callsign](#)
- [SEQUENCE](#)
- [OUTPUT FORMAT](#)
- [ACTIVE ONLY](#)
- [NO NEXTEL](#)
- [VERTICAL MARKET](#)
- [MFE](#)
- [EXACT MATCH](#)
- [STATISTICS](#)
- [Client / Project Code](#)

Frequency
 Brief

 - No Vertical Market -



PerCon DataLinks - FCC Master Frequency Database

The results of your search are also in the following file: [Excel file](#)

FREQUENCY	CALLSIGN	COMPANY NAME	RS	CS	CITY	STATE	COUNTY	LAT / LONG	FILE NUMBER	FAA ID	STATUS
46.10000	KEM430	BEMUS POINT, VILLAGE	PW	MO		NY		000000/0000000			A
46.10000	KEM430	BEMUS POINT, VILLAGE	PW	FB	BEMUS POINT	NY	CHAUTAUQUA	420931/0792333			A
46.14000	KEM430	BEMUS POINT, VILLAGE	PW	MO		NY		000000/0000000			A
46.14000	KEM430	BEMUS POINT, VILLAGE	PW	FB	BEMUS POINT	NY	CHAUTAUQUA	420931/0792333			A

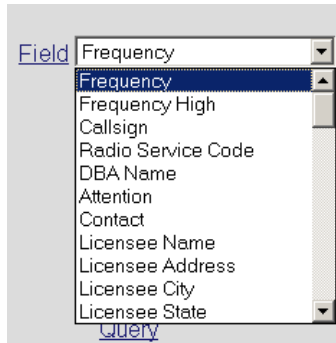
FOUND 4 RECORDS IN 0.16 SECONDS
 PROCESSED HTML IN 0.11 SECONDS
 DATE: 07/03/06
 Time: 13:33:10

PREVIOUS CREDIT(S): UNLIMITED
 CREDIT(S) USED: 1
 CREDIT(S) REMAINING: UNLIMITED
 EXPIRATION DATE: 02/09/09

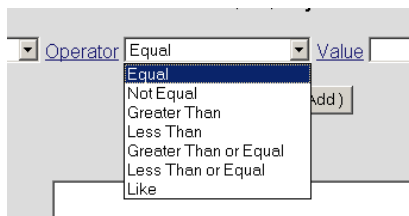
Copyright © 2006 PerCon Corporation

Sample Query #2: Search by Frequency Range in a County

Step 1: Select Frequency from the Field menu.



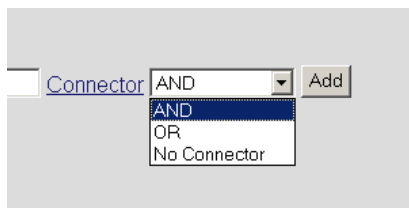
Step 2: Select Greater Than or Equal from the Operator menu.



Step 3: Enter a single frequency in MHz in the Value field. In this example, the frequency 46.00 MHz is used.



Step 4: Select the AND option from the Connector menu.

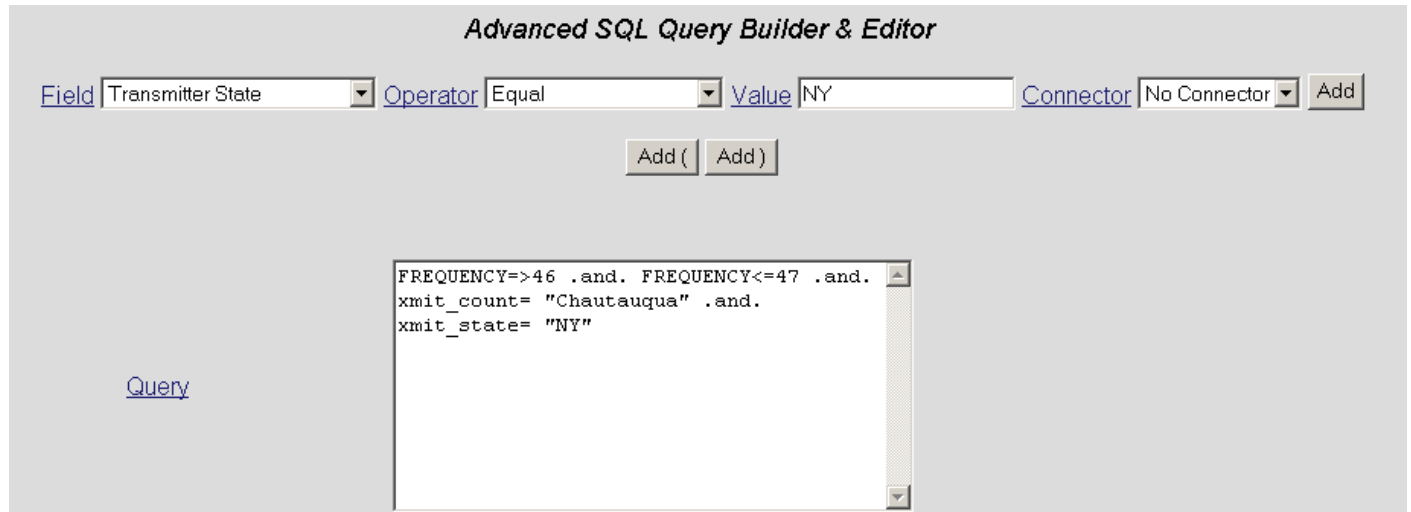


Step 5: Click the Add button to add the query condition to the query.

Step 6: Since this query will have multiple conditions, after the first condition is added, select the Frequency field again from the Field menu. Then select Less Than or Equal from the Operator menu. Next, enter a single frequency in MHz in the Value field. In this example, the frequency 47.00 MHz is used. Finally select the AND option from the Connector menu and click the Add button to add the query condition to the query.

Step 7: To add a third condition, select the Transmitter County field from the Field menu. Then select Equal from the Operator menu. Next, enter a county name in the Value field. In this example, Chautauqua County is used. Finally select the AND option from the Connector menu and click the Add button to add the query condition to the query.

Step 8: To add a fourth and final condition, select the Transmitter State field from the Field menu. Then select Equal from the Operator menu. Next, enter a state name in the Value field. In this example, NY is used. Finally select the No Connector option from the Connector menu and click the Add button to add the query condition to the query. After all four conditions are added, the query text box should contain the query pictured below.



The search criteria show in the above screen shot is valid and can be used as test values.

SQL Query Language to English Language Translation: The query in this example roughly translates to the following in English:

SQL		English
<code>FREQUENCY=> .and. FREQUENCY<= 47 .and. Xmit_count= "Chautauqua" .and. xmit_state="NY"</code>	=	Find all records with transmitters in Chautauqua County, New York that have frequencies between and 46 MHz and 47 MHz, including 46MHz and 47MHz.

Step 9: Click the Submit button to run the query. The search results should look like the following screen capture.

The results of your search are also in the following file: [Excel file](#)

FREQUENCY	CALLSIGN	COMPANY NAME	RS CS	CITY	STATE	COUNTY	LAT / LONG	FILE NUMBER	FAA ID	STATUS
46.10000	KBS950	WESTFIELD, VILLAGE O	PW FB	WESTFIELD	NY	CHAUTAUQUA	421924/0793440			A
46.10000	KBS950	WESTFIELD, VILLAGE O	PW MO	WESTFIELD	NY	CHAUTAUQUA	421924/0793440			A
46.10000	KBW774	CHERRY CREEK, VILLAG	PW FB	CHERRY CREEK	NY	CHAUTAUQUA	421739/0790601			A
46.10000	KBZ416	FLUVANNA FIRE DISTRI	PW FB	JAMESTOWN	NY	CHAUTAUQUA	420655/0791706			A
46.10000	KBZ416	FLUVANNA FIRE DISTRI	PW FB	ELLCOTT	NY	CHAUTAUQUA	421030/0791456			A
46.10000	KEC503	JAMESTOWN, CITY OF	PW FB	JAMESTOWN	NY	CHAUTAUQUA	420554/0791331			A
46.10000	KED653	DUNKIRK CITY OF	PW FB	DUNKIRK	NY	CHAUTAUQUA	422900/0792002	0001989086		A
46.10000	KED653	DUNKIRK CITY OF	PW FB	DUNKIRK	NY	CHAUTAUQUA	422900/0792003	0001989086		A
46.10000	KED653	DUNKIRK CITY OF	PW MO	DUNKIRK	NY	CHAUTAUQUA	422900/0792003	0001989086		A
46.10000	KED818	LAKEWOOD VOLUNTEER F	PW FB	JAMESTOWN	NY	CHAUTAUQUA	420547/0791418	0001720805		A
46.10000	KED818	LAKEWOOD VOLUNTEER F	PW FB	LAKEWOOD	NY	CHAUTAUQUA	420612/0791939	0001720805		A
46.10000	KED818	LAKEWOOD VOLUNTEER F	PW FB	LAKEWOOD	NY	CHAUTAUQUA	420559/0791932	0001720805		A
46.10000	KED818	LAKEWOOD VOLUNTEER F	PW MO	LAKEWOOD	NY	CHAUTAUQUA	421730/0792459	0001720805		A
46.10000	KEE401	FALCONER VFD INC	PW FB	FALCONER	NY	CHAUTAUQUA	420725/0791159			A
46.14000	KEB909	CHAUTAUQUA, COUNTY O	PW MO		NY	CHAUTAUQUA	000000/0000000	0001443948		A
46.14000	KEB909	CHAUTAUQUA, COUNTY O	PW FB	JAMESTOWN	NY	CHAUTAUQUA	420507/0791712	0001443948	2004-AEA-2017-O	A
46.14000	KMJ860	BROCTON, VILLAGE OF	PW FB	BROCTON	NY	CHAUTAUQUA	422327/0792652			A
46.14000	KMJ860	BROCTON, VILLAGE OF	PW MO	BROCTON	NY	CHAUTAUQUA	422327/0792652			A
46.14000	KSS285	GERRY VOLUNTEER FIRE	PW FB	GERRY	NY	CHAUTAUQUA	421136/0791453			A
46.14000	KSS285	GERRY VOLUNTEER FIRE	PW MO	GERRY	NY	CHAUTAUQUA	421136/0791453			A
46.14000	WPMB783	HARTFIELD VOLUNTEER	PW FB	MAYVILLE	NY	CHAUTAUQUA	421554/0792826			A
46.14000	WPMC871	CASSADAGA VOLUNTEER	PW FB	CASSADAGA	NY	CHAUTAUQUA	422128/0791912			A
46.14000	WPMY936	ELLERY CENTER VOLUNT	PW FB	BEMUS POINT	NY	CHAUTAUQUA	421047/0792042	0001643789		A
46.14000	WPNZ526	STANLEY HOSE COMPANY	PW FB	SHERMAN	NY	CHAUTAUQUA	421117/0793508			A
46.14000	WPNZ526	STANLEY HOSE COMPANY	PW MO	SHERMAN	NY	CHAUTAUQUA	421117/0793508			A
46.14000	KEC505	FREDONIA, VILLAGE OF	PW MO	FREDONIA	NY	CHAUTAUQUA	422616/0791959	1178520		A
46.14000	KEC505	FREDONIA, VILLAGE OF	PW FB	FREDONIA	NY	CHAUTAUQUA	422616/0791959	1178520		A
46.14000	WQEJ524	PANAMA, VILLAGE OF-F	PW FB	PANAMA	NY	CHAUTAUQUA	420432/0793050	0002445906		A
46.14000	WQEJ524	PANAMA, VILLAGE OF-F	PW FB	ASHVILLE	NY	CHAUTAUQUA	420231/0792440	0002445906		A
46.18000	KED818	LAKEWOOD VOLUNTEER F	PW FB	JAMESTOWN	NY	CHAUTAUQUA	420547/0791418	0001720805		A
46.18000	KED818	LAKEWOOD VOLUNTEER F	PW FB	LAKEWOOD	NY	CHAUTAUQUA	420612/0791939	0001720805		A
46.18000	KED818	LAKEWOOD VOLUNTEER F	PW FB	LAKEWOOD	NY	CHAUTAUQUA	420559/0791932	0001720805		A
46.18000	KED818	LAKEWOOD VOLUNTEER F	PW MO	LAKEWOOD	NY	CHAUTAUQUA	421730/0792459	0001720805		A
46.22000	KEB909	CHAUTAUQUA, COUNTY O	PW MO		NY	CHAUTAUQUA	000000/0000000	0001443948		A
46.44000	KEC503	JAMESTOWN, CITY OF	PW FB	JAMESTOWN	NY	CHAUTAUQUA	420554/0791331			A

FOUND 152 RECORDS IN 5.06 SECONDS
 PROCESSED HTML IN 0.36 SECONDS
 DATE: 07/03/06
 Time: 14:24:41

Sample Query #3: Search by Transmitter Height in a City

Step 1: Select Transmitter City from the Field menu.

Step 2: Select Equal from the Operator menu.

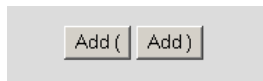
Step 3: Enter a city name in the Value field. In this example, Jamestown is used.

Step 4: Select the AND option from the Connector menu.

Step 5: Click the Add button to add the query condition to the query.

Step 6: Since this query will again have multiple conditions, select the Transmitter State field from the Field menu. Then select Equal from the Operator menu. Next, enter a state in the Value field. In this example, NY is used. Finally select the AND option from the Connector menu and click the Add button to add the query condition to the query.

Step 7: Before adding the next condition, click on the ADD (button to add an open parenthesis to the beginning.

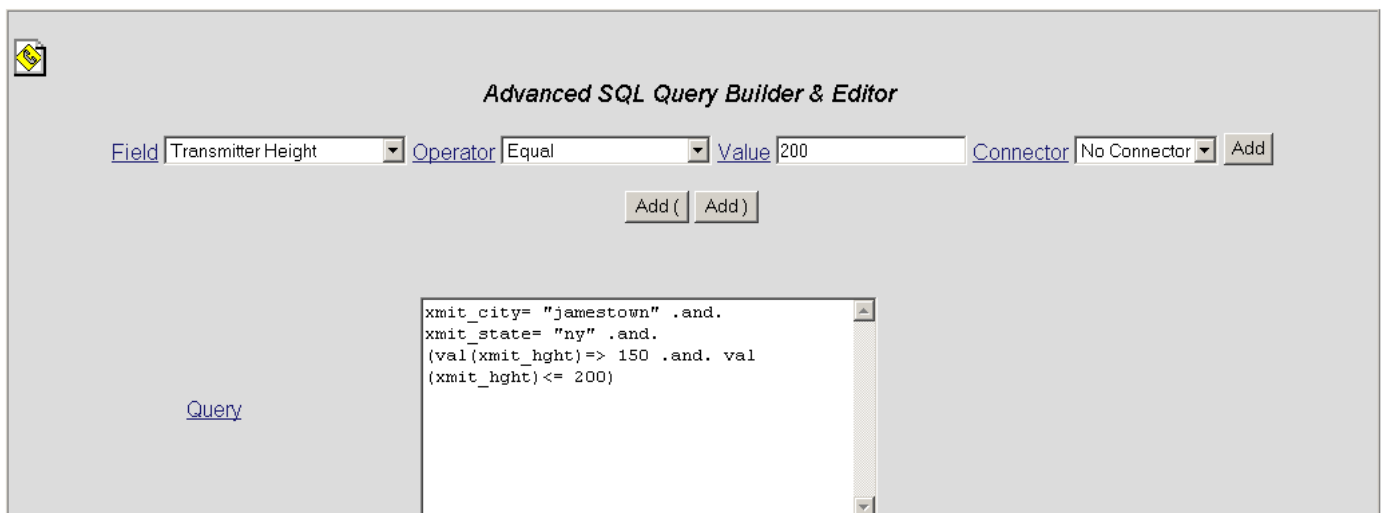


Step 8: To add the third condition, select the Transmitter Height field from the Field menu. Then select Greater Than or Equal from the Operator menu. Next, enter a transmitter height in feet in the Value field. In this example, 150 feet is used. Finally select the AND option from the Connector menu and click the Add button to add the query condition to the query.

Step 9: To add a fourth and final condition, again select the Transmitter Height field from the Field menu. Then select Less Than or Equal from the Operator menu. Next, enter a transmitter height in feet in the Value field. In this example, 200 feet is used. Finally select the No Connector option from the Connector menu and click the Add button to add the query condition to the query.

Step 10: Click the ADD) to add a closing parenthesis.

Step 11: After the last condition is added, the VAL() function must be added manually to the query to convert the character based Transmitter Height fields to numeric values for a valid comparison.



The search criteria show in the above screen shot is valid and can be used as test values.

SQL Query Language to English Language Translation: The query in this example roughly translates to the following in English:

SQL

Xmit_city= "Jamestown" .and.
 xmit_state= "ny" .and.
 (val(xmit_hght)=> 150 .and. val
 (xmit_hght)<= 200)

English

= Find all records with transmitters in Jamestown, New York that have transmitters that are between 150 and 200 feet tall, including transmitters that are 150 and 200 feet tall.

Step 12: Click the Submit button to run the query. The search results should look like the following screen capture.

FREQUENCY	CALLSIGN	COMPANY NAME	RS CS	CITY	STATE COUNTY	LAT / LONG	FILE NUMBER	FAA ID	STATUS
88.10000	WUBJ	STATE UNIVERSITY OF	FM A	JAMESTOWN	NY	420506/0791723			A
93.30000	WUSE	MEDIA ONE GROUP, LLC	FM B	JAMESTOWN	NY	420506/0791723			A
542.00000	WNYB	FAITH BROADCASTING N	TV	JAMESTOWN	NY	420506/0791723			A
542.00000	WNYB	FAITH BROADCASTING N	TV	JAMESTOWN	NY	420506/0791723			A
542.00000	WNYB	FAITH BROADCASTING N	TV	JAMESTOWN	NY	420506/0791723			A
542.00000	WNYB	FAITH BROADCASTING N	TV	JAMESTOWN	NY	420506/0791723			A
542.00000	WNYB	FAITH BROADCASTING N	TV	JAMESTOWN	NY	420506/0791723			A
662.00000	W46BA	WESTERN NEW YORK PUB	TX	JAMESTOWN	NY	420506/0791723			A
662.00000	W46BA	WESTERN NEW YORK PUB	TX	JAMESTOWN	NY	420506/0791723			A

Step 13: Saving the search results to a Microsoft Excel spreadsheet and opening the file in Excel will show that search only returned records with transmitters in Jamestown, NY with transmitters between 150 and 200 feet in height.

	S	T	U	V	W	X	Y	Z	AA
d	xmit_lond	xmit_lat	xmit_long	xmit_elev	xmit_hght	xmit_haat	xmit_eff	xmit_struh	class_stat
	W	420506	0791723		169.00	170.00			A
	W	420506	0791723		169.00	196.00			B
	W	420506	0791723		169.00	182.00			
	W	420506	0791723		169.00	182.00			
	W	420506	0791723		169.00	182.00			
	W	420506	0791723		169.00	182.00			
	W	420506	0791723		169.00	180.00			
	W	420506	0791723		158.00				
	W	420506	0791723		158.00				

Sample Query #4: Search by Licensee Name in a County

Step 1: Select Licensee from the Field menu.

Step 2: Select Like from the Operator menu.

Step 3: Enter the Licensee name in the Value field. In this example, word “hospital” (no quotes) is used.

Step 4: Select the AND option from the Connector menu.

Step 5: Click the Add button to add the query condition to the query.

Step 6: Since this query will again have multiple conditions, select the Transmitter County field from the Field menu. Then select Equal from the Operator menu. Next, enter a county name in the Value field. In this example, Chautauqua county is used. Finally select the AND option from the Connector menu and click the Add button to add the query condition to the query.

Step 7: To add the third condition and final, select the Transmitter State field from the Field menu. Then select Equal from the Operator menu. Next, enter a state in the Value field. In this example, NY is used. Finally select the No Connector option from the Connector menu and click the Add button to add the query condition to the query. After all three conditions are added, the query text box should contain the query pictured below.

Advanced SQL Query Builder & Editor

Field Operator Value Connector

Query

```
substr(licensee,1,40) Like "%
hospital%" .and.
xmit_count= "Chautauqua" .and.
xmit_state= "ny"
```

SQL Query Language to English Language Translation: The query in this example roughly translates to the following in English:

SQL

```
substr(licensee,1,40) Like "%
hospital%" .and.
xmit_count= "Chautauqua" .and.
xmit_state= "ny"
```

= English

Find all records with transmitters in Chautauqua County, New York that have licensee names that contain the word “hospital” within the first 40 characters of the licensee name.

Step 8: Click the Submit button to run the query. The search results should look like the following screen capture.

The results of your search are also in the following file: [Excel file](#)

FREQUENCY	CALLSIGN	COMPANY NAME	RS	CS	CITY	STATE	COUNTY	LAT / LONG	FILE NUMBER	FAA ID	STATUS
151.71500	KNA762	WOMENS CHRISTIAN ASS	IG	FB	JAMESTOWN	NY	CHAUTAUQUA	420530/0791456			E
151.71500	KNA762	WOMENS CHRISTIAN ASS	IG	MO	JAMESTOWN	NY	CHAUTAUQUA	420530/0791456			E
151.71500	WPXL282	WCA HOSPITAL	IG	FBC	JAMESTOWN	NY	CHAUTAUQUA	420530/0791457	0001041243		A
151.71500	WPXL282	WCA HOSPITAL	IG	MO	JAMESTOWN	NY	CHAUTAUQUA	420530/0791457	0001041243		A
152.00750	KVX770	WESTFIELD MEMORIAL H	PW	FB	WESTFIELD	NY	CHAUTAUQUA	421940/0793441			E
154.51500	KXS616	WOMANS CHRISTIAN ASS	IG	FB	JAMESTOWN	NY	CHAUTAUQUA	420530/0791456	0001908584		A
155.28000	KXX585	WOMANS CHRISTIAN ASS	PW	FB	JAMESTOWN	NY	CHAUTAUQUA	420530/0791456	0002049839		A
155.34000	KVX770	WESTFIELD MEMORIAL H	PW	FB	WESTFIELD	NY	CHAUTAUQUA	421940/0793441			E
155.34000	KXX585	WOMANS CHRISTIAN ASS	PW	FB	JAMESTOWN	NY	CHAUTAUQUA	420530/0791456	0002049839		A
451.92500	WQE1651	BROOKS MEMORIAL HOSP	IG	MO	DUNKIRK	NY	CHAUTAUQUA	422847/0792002	0002406119		A
462.95000	WPCH941	BROOKS MEMORIAL HOSP	PW	FB	DUNKIRK	NY	CHAUTAUQUA	422847/0792002	0001277708		A
462.95000	WPCH941	BROOKS MEMORIAL HOSP	PW	MO	DUNKIRK	NY	CHAUTAUQUA	422847/0792002	0001277708		A
22375.00000	WNTU844	W C A HOSPITAL	HG	FXO	JAMESTOWN	NY	CHAUTAUQUA	420528/0791605			A
23575.00000	WNTU845	W C A HOSPITAL	HG	FXO	JAMESTOWN	NY	CHAUTAUQUA	420528/0791513			A

FOUND 14 RECORDS IN 6.73 SECONDS
 PROCESSED HTML IN 0.13 SECONDS
 DATE: 07/03/06
 Time: 16:19:10

Sample Query #5: Search by Callsign with Wildcard

Step 1: Select Callsign from the Field menu.

Step 2: Select Like from the Operator menu.

Step 3: Enter the Callsign in the Value field. In this example, KEM_30 is used.

Step 4: Select the No Connector option from the Connector menu.

Step 5: Click the Add button to add the query condition to the query. The query text box should contain the query pictured below.

Advanced SQL Query Builder & Editor

Field Operator Value Connector

Query

```
callsign Like "KEM_30"
```

SQL Query Language to English Language Translation: The query in this example roughly translates to the following in English:

SQL

Callsign Like "KEM_30"

English

= Find all records with Callsigns that begin with "KEM" and end with "30" The underscore acts as a single character wildcard. The query will return all records with Callsigns matching the format of KEM_30 with a letter or number in the underscore position.

Step 6: Click the Submit button to run the query. The search results should look like the following screen capture.

The results of your search are also in the following file: [Excel file](#)

FREQUENCY	CALLSIGN	COMPANY NAME	RS	CS	CITY	STATE	COUNTY	LAT / LONG	FILE NUMBER	FAA ID	STATUS
46.10000	KEM430	BEMUS POINT, VILLAGE	PW	MO		NY		000000/0000000			A
46.10000	KEM430	BEMUS POINT, VILLAGE	PW	FB	BEMUS POINT	NY	CHAUTAUQUA	420931/0792333			A
46.14000	KEM430	BEMUS POINT, VILLAGE	PW	MO		NY		000000/0000000			A
46.14000	KEM430	BEMUS POINT, VILLAGE	PW	FB	BEMUS POINT	NY	CHAUTAUQUA	420931/0792333			A
155.29500	KEM630	SARATOGA SPRINGS	CIT	PW	SARATOGA SPRING	NY	SARATOGA	430512/0734738			A
155.29500	KEM630	SARATOGA SPRINGS	CIT	PW	SARATOGA SPRING	NY	SARATOGA	430512/0734738			A
157.72500	KEM230	SPICER GRAVEL	CO	INC	IG	FBT	IL	000000/0000000	0000784113		A
157.72500	KEM230	SPICER GRAVEL	CO	INC	IG	FB	STREATOR	410825/0885000	0000784113		A
157.72500	KEM230	SPICER GRAVEL	CO	INC	IG	FB	MARSEILLES	411905/0883805	0000784113		A
157.72500	KEM230	SPICER GRAVEL	CO	INC	IG	MO	IL	000000/0000000	0000784113		A

FOUND 10 RECORDS IN 0.88 SECONDS
 PROCESSED HTML IN 0.09 SECONDS
 DATE: 07/03/06
 Time: 16:20:47

Saving, Editing & Reusing Existing Queries

Saving a Query to a Text File

Users can save queries to a text file for later use by doing the following:

Step 1: Click and highlight the entire query text in the Query text box.

Step 2: Select Copy from the web browser's Edit menu.

Step 3: Open a text editor, such as Notepad or WordPad.

Step 4: Select Paste from the text editor's Edit menu.

Step 5: Select Save or Save As from the text editor's File menu to save the file.

Editing a Query within a Text File

Users can create and edit queries offline using a text editor and then paste the query into the DataLinks SQL Builder & Editor by doing the following:

Step 1: Click and highlight the entire query text in the Query text box.

Step 2: Select Copy from the web browser's Edit menu.

Step 3: Open a text editor, such as Notepad or WordPad.

Step 4: Select Paste from the text editor's Edit menu.

Step 5: Select Save or Save As from the text editor's File menu to save the file.

Reusing a Query from a Text File

Users can reuse queries from a text file by doing the following:

Step 1: Open the text file containing the saved query.

Step 2: Highlight the query text within the text editor.

Step 3: Select Copy from the text editor's Edit menu.

Step 4: Log in to DataLinks and select the SQL Builder & Editor option.

Step 5: Click on the white space inside the Query text box and then select Paste from the web browser's Edit menu.

Step 6: Click the Submit button to run the query.

Errors and Troubleshooting

New users or those unfamiliar with the SQL query language may inadvertently create queries that are not properly formatted, resulting in the error message displayed below.

Error in CGI data Server

There was an error during the interpretation of your request.

```
Error #: 36  
Message: Command contains unrecognized phrase/keyword.  
Program: SEARCH C:\FOXWEB\PROGRAMS\CIX_FORM_SRCH_ENG.FXP  
Line # : 218  
Line : select * from (FNAME) where &MQRY into dbf (m.USERNAMEF)
```

This error message is only generated when an invalid query is submitted to the DataLinks system. Users who encounter the message should check the following:

- Improper use or imbalance of parenthesis. For every open parenthesis, there must be a closing parenthesis and vice versa. Double check any parenthesis and make sure they are used in pairs.
- Invalid use of text or numeric fields. When using any fields which require a numeric value, the VAL() function must be used, with the notable exception of frequency or number of units fields. Users may want to review the file layout located at <http://www.perconcorp.com/documents/pro.pdf> . Numeric fields designated with an “N” do not require the use of the VAL() function. Fields that require numeric values that are designated with a “C” will require the VAL() function.
- Invalid syntax of user defined or edited queries. Any query text added to the query text box using the Add button will have correct syntax. If an error occurs after a user edits any query text, the user should check for misspelled or invalid field names and compare the fields with the names listed in the file layout. Users should also make sure the correct operators are used and that both and & or connectors use the format of .and. or .or. .

Company Information

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DataLinks Tutorials

Tutorial #1:
Introduction To PerCon DataLinks

Tutorial #2:
PerCon DataLinks Output Options

Tutorial #3:
DataLinks Frequency Finder

Tutorial #4:
**PerCon DataLinks Co-Channel /
Adjacent Channel Analysis**

Tutorial #5:
DataLinks Wildcard Searches

Tutorial #6:
Keyhole .KML Output Option

Tutorial #7:
Advanced SQL Query Builder & Editor