# Running Additional Queries

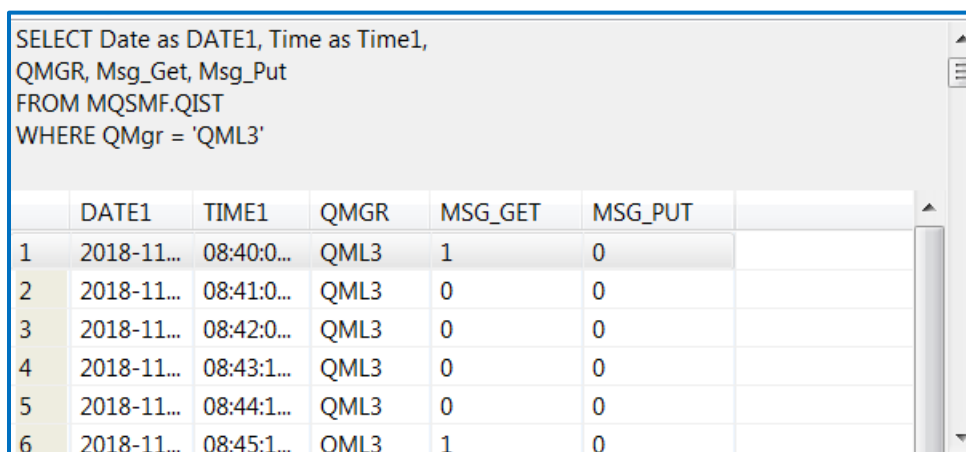## Lab Objective

This lab takes you thru the steps to run some additional queries of the primary queries, using Data Studio.

## Lab Steps

1) Yesterday we heard about the MQ puts and gets total from the data manager – those are the puts and gets that are passed from the messages manager to the data manager, because they can potentially be successful.  So the first query will be to retrieve that information from the data manager table and compare it with the message manager data.

2) In Data Studio, on the MQPERF1_SQL tab, enter the following query:

```
SELECT Date as DATE1, Time as Time1,
       QMGR, Msg_Get, Msg_Put
FROM MQSMF.QIST
WHERE QMgr = 'QML3' ;
```

3) Run the query by hitting the green arrow.
4) The results pane should look something like this:

```
SELECT Date as DATE1, Time as Time1,
QMGR, Msg_Get, Msg_Put
FROM MQSMF.QIST
WHERE QMgr = 'QML3'
```

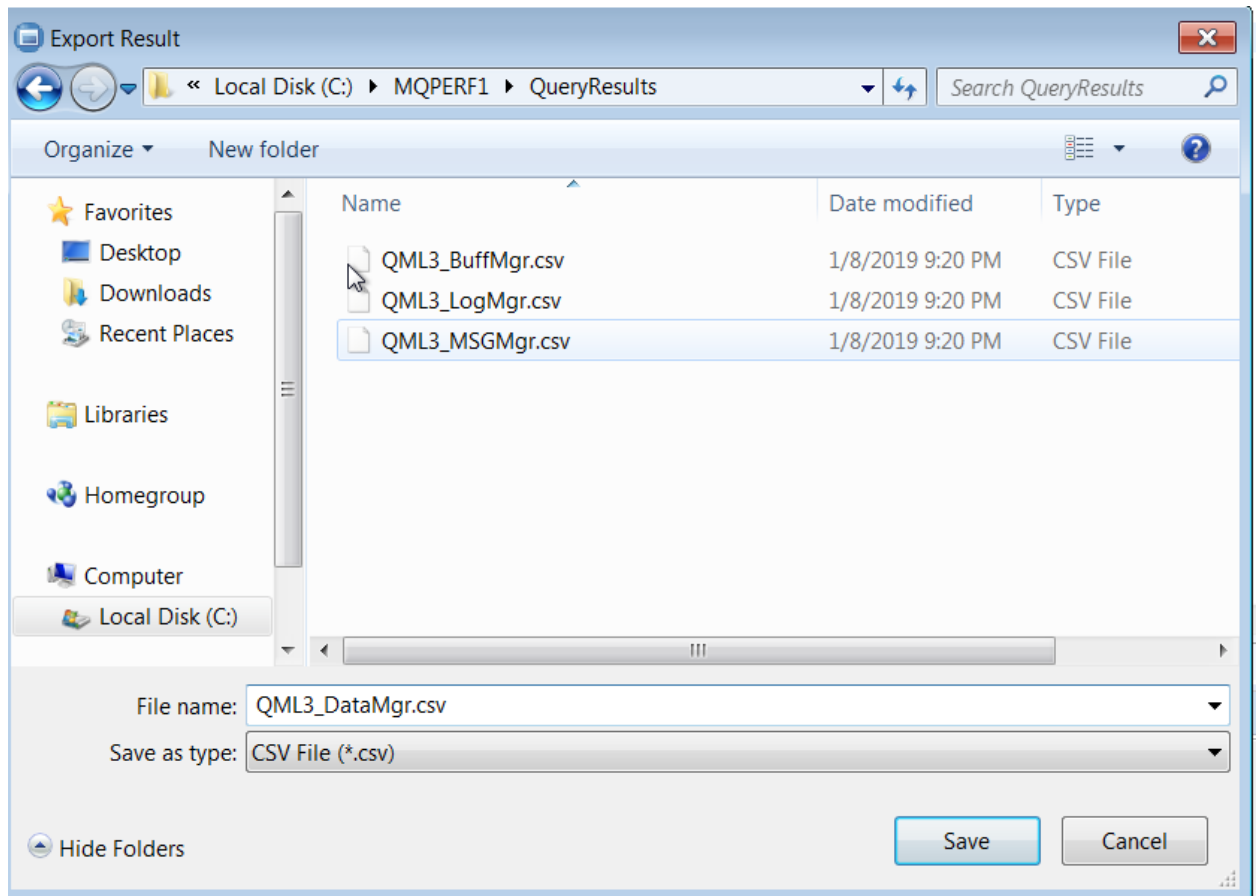| | DATE1 | TIME1 | QMGR | MSG_GET | MSG_PUT | |
|---|---|---|---|---|---|---|
| 1 | 2018-11... | 08:40:0... | QML3 | 1 | 0 | |
| 2 | 2018-11... | 08:41:0... | QML3 | 0 | 0 | |
| 3 | 2018-11... | 08:42:0... | QML3 | 0 | 0 | |
| 4 | 2018-11... | 08:43:1... | QML3 | 0 | 0 | |
| 5 | 2018-11... | 08:44:1... | QML3 | 0 | 0 | |
| 6 | 2018-11... | 08:45:1... | QML3 | 1 | 0 | |

5) Because there should be a limited number of rows, less than the default of 500, the next step is to export the results set. In the rectangle to the left of the 'DATE1' label, right click and chose Export, then 'All Results (not shown as it could not be captured).
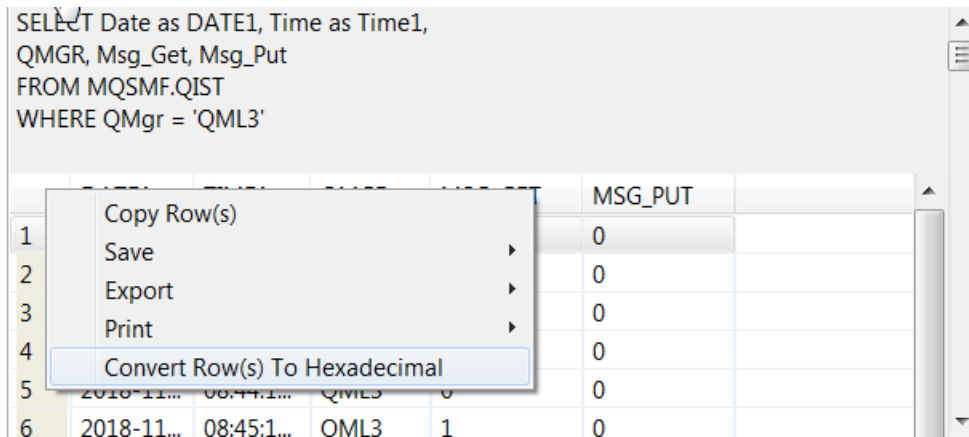


6) The 'Export All Results' pan should be shown, select CSV file and hit the Browse button.
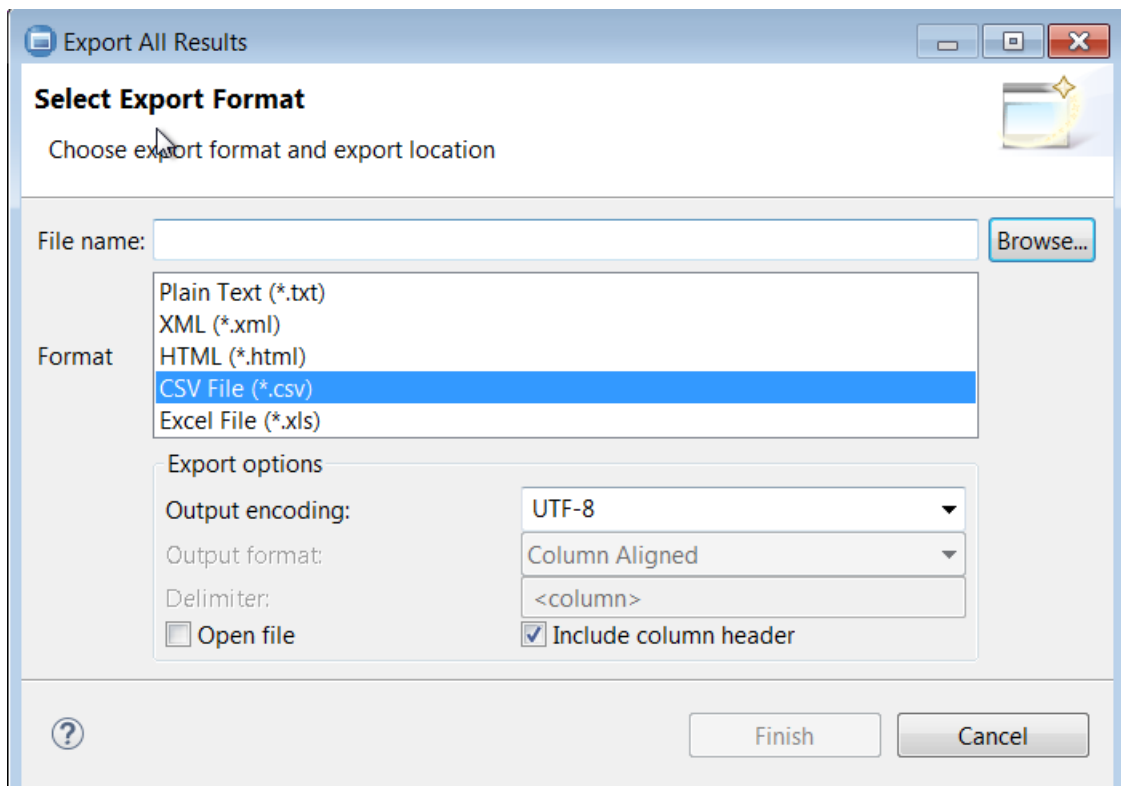
7) Navigate to the MQPERF1/QueryResults directory and enter the file name of QML3_DataMgr and hit the Save button.



8) That will return to the 'Export all Results' pane, from there hit the 'Finish' button.
9) In Open Office Calc, open the QML3_DataMgr CSV file. Scrolling towards the bottom, you can see some put and get activity as shown:

10) While we can manually compare these values with the equivalent Message Manager data, it would be easier to craft a query to associate the data from the two tables.

11) Returning to our query pane, a new query will be created to associate the values from the two tables. Note that the text for this query is in a text file in the Queries directory under the MQPERF1 directory:



12) Run the query and export the results as illustrated above, call the exported file QML3_DMandMM.

13)

14) Opening the file with Open Office shows the following:



15) It may be necessary to sort the data, but as you can see the number of MQPUTs for both sources in the 13:16 rows, while the number of message manager gets is slightly larger than the data manager. Because we know the tasks that were running, this slight difference is the normal get with wait processing that goes unfulfilled by the OEMPUT program.

16) On some rows, the number of MQPUTs and MQPUT1 from the message manager will need to be added to compare to the data manager put count, that is something that can be added to the query or done within the spreadsheet.

17) Congratulations, you are now an expert!