DATABASE STATISTICS TABLE WITH QUALNET

QualNet uses SQLite and Maria DB (5.5 or later) to generate the statistics database.

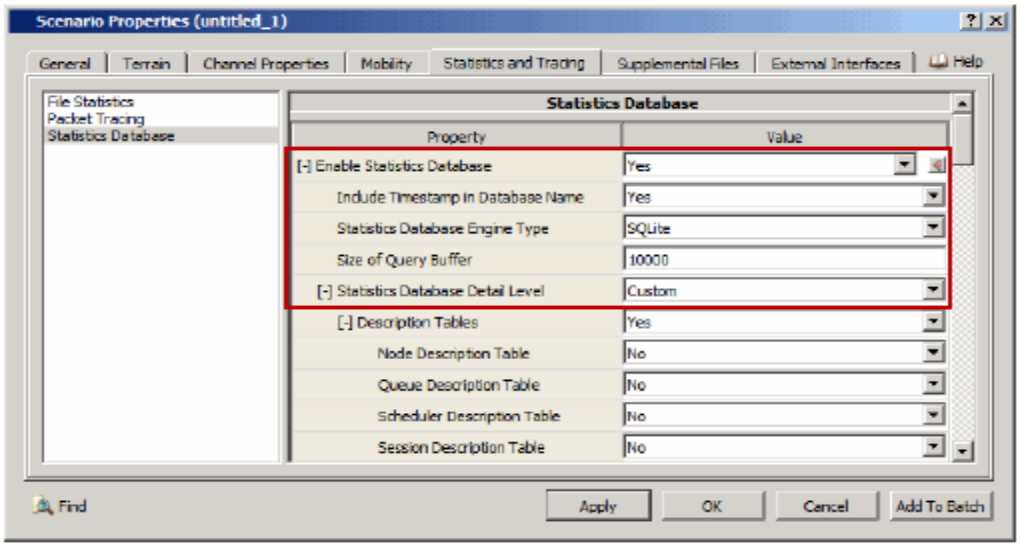
In this document SQLite manager is used to obtain the data from the database. 

Configuring Statistics Tables

Configuring statistics can be done by both command line interface and GUI.

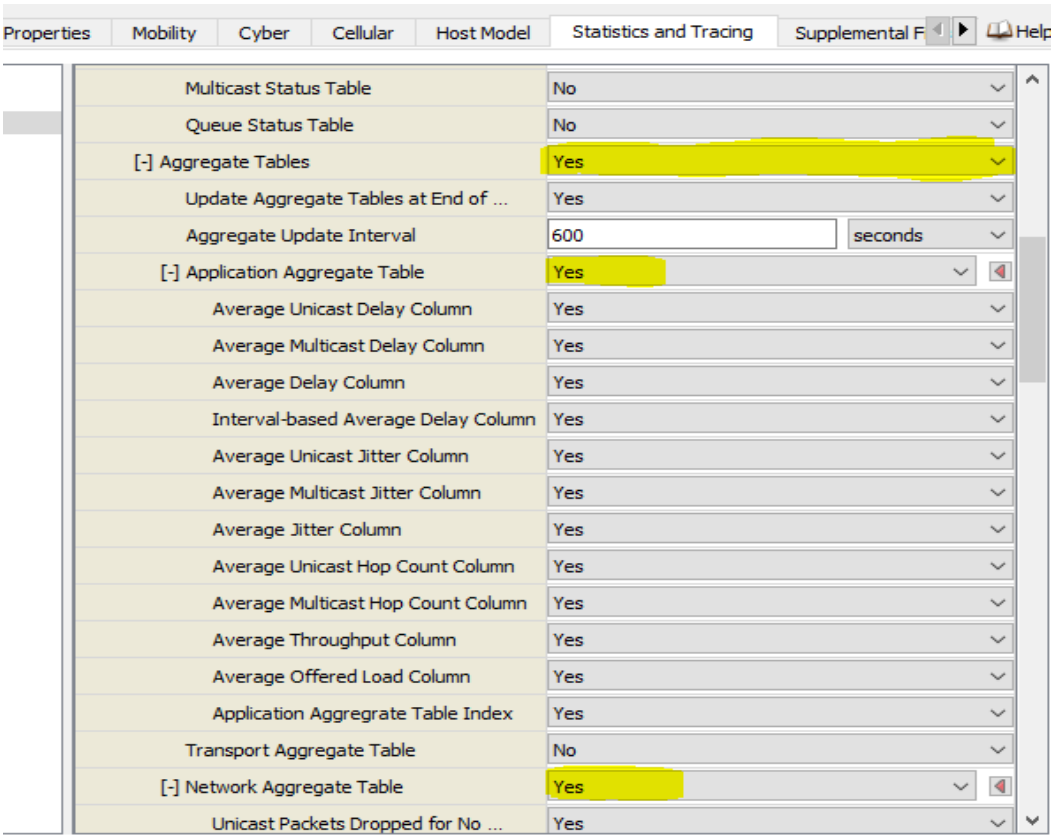
To configure the general parameters for the statistics database in the GUI, do the following:

1. Go to ***Scenario Properties Editor*** > ***Statistics and Tracing*** > ***Statistics Database***.
2. To enable the statistics database, set ***Enable Statistics Database*** to *Yes* and set the dependent parameters listed in

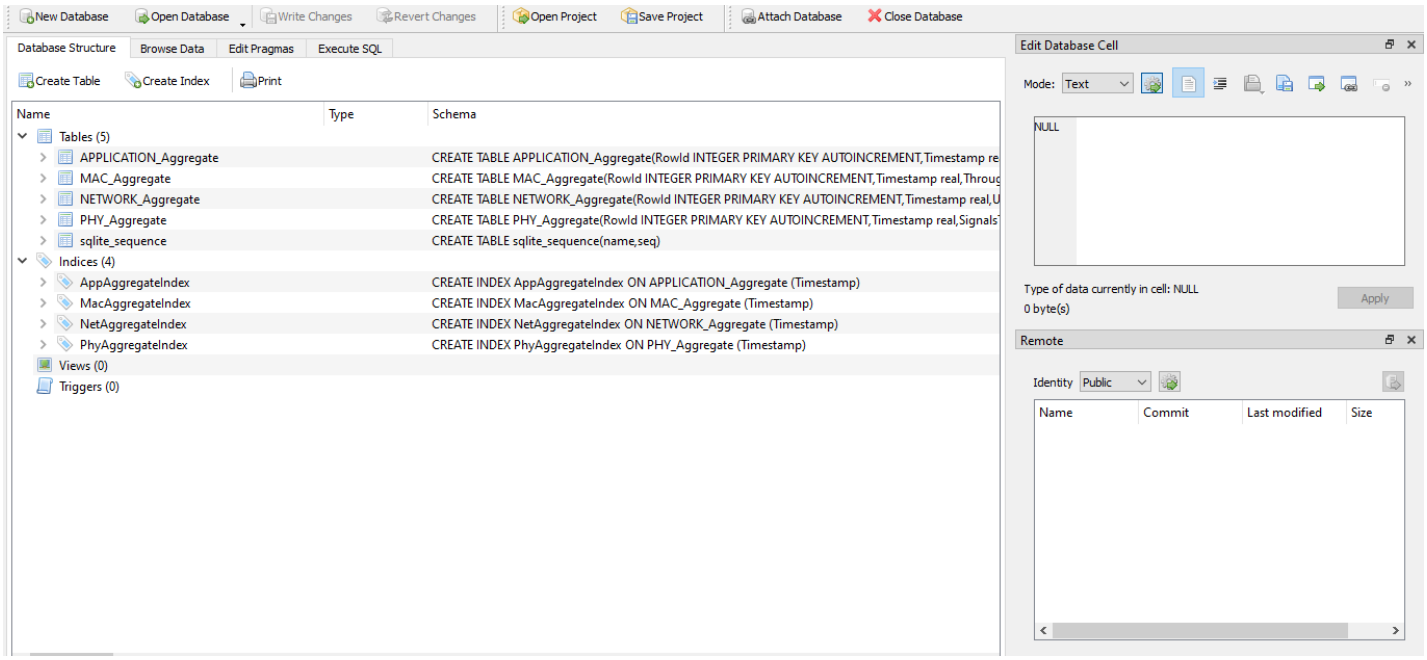


Configuring Database Detail Level

The user can specify the level of detail of the generated database. One of three levels can be specified: High, Medium, or Low, each corresponding to a pre-defined set of statistics tables. And also layer by layer tables can be enabled such as application aggregate table can be specified including with the parameters such as multicast delay column, unicast delay etc. Here application, network, mac, physical aggregate table is enabled.



Once the database GUI is opened, open the SQLite file which will be saved in QualNet scenario folder (By running the scenario, database file will be generated) whatever aggregate tables is enabled that will be displayed as tables in SQLite GUI as shown.



Running SQL queries

- The required data can be obtain from the tables by running appropriate SQL quires.
- Navigate to Execute SQL in the GUI.
- Once the SQL quires is executed the results will be displayed in rows and columns in the output window.
- Here the below quires is executed to get unicast message sent and received from application aggregate table and unicast delay, unicast jitter from the network aggregate table.

1. **SELECT UnicastMessagesSent, UnicastMessagesReceived from APPLICATION_Aggregate**
2. **SELECT Unicast Delay, Unicast Jitter from NETWORK_Aggregate**