User Manual for

Jupiter: DB Comparison Tool

Jupiter is a Database utility tool that is used to manage and compare two databases. It is a simple tool that can effectively and quickly compare the data objects between the two DB. This can be easily integrated with any SQL client as a plugin. It enables user to check the sync issues between any two DB and minimize risks of issues due to the same.

Note: This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

1. Getting Started with Jupiter

   Extract the executable JAR and batch file from the zip file provided. There are two ways to invoke the application:

   - Double Click the executable JAR.
   - Execute the batch file to invoke the JAR (recommended).

   Please ensure that both the JAR file and BAT file is placed under same directory. However, if not, then modify the Batch file and provide the path to the JAR file.

   E.g. if the JAR file is placed under directory on desktop, then modify the command as:

   java -jar -Xms4096m -Xmx4096m C:\Users\<USERNAME>\Desktop\Jupiter.jar

2. The Interface and Initial settings

   To start with Jupiter, you first need to define your connections that will be involved in comparisons. Here, you can simply setup a new connection or import the connections from your DB client like Oracle SQL Developer.
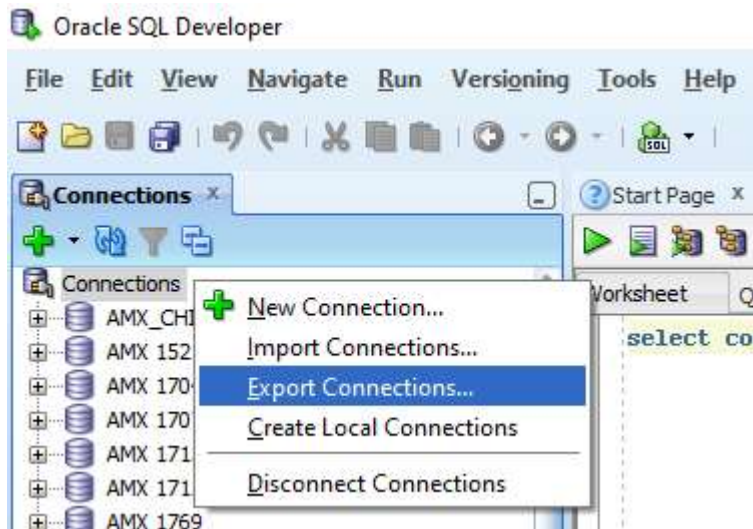
Setting up a new Connection:

For any new connection setup, it is mandatory to provide all fields that have been generated. Important thing to note is that, the connections must be according to the schema you want Jupiter to compare.

For instance, Jupiter fetches the tables according to the User credentials provided. That means the database objects will be shown that are in ownership of this user.

Also, before setting up the new connection ensure the required tunneling is established if any.

Importing a DB Connection:

Export the connections from SQL developer as shown below:

In Jupiter, select Connections -> Import -> <Exported Filename>

All the connections excluding that are already existing in Jupiter will be imported. This is judged based on the name of connection. Hence if there is an existing connection named as X, then no other connection with same name can be created or imported.
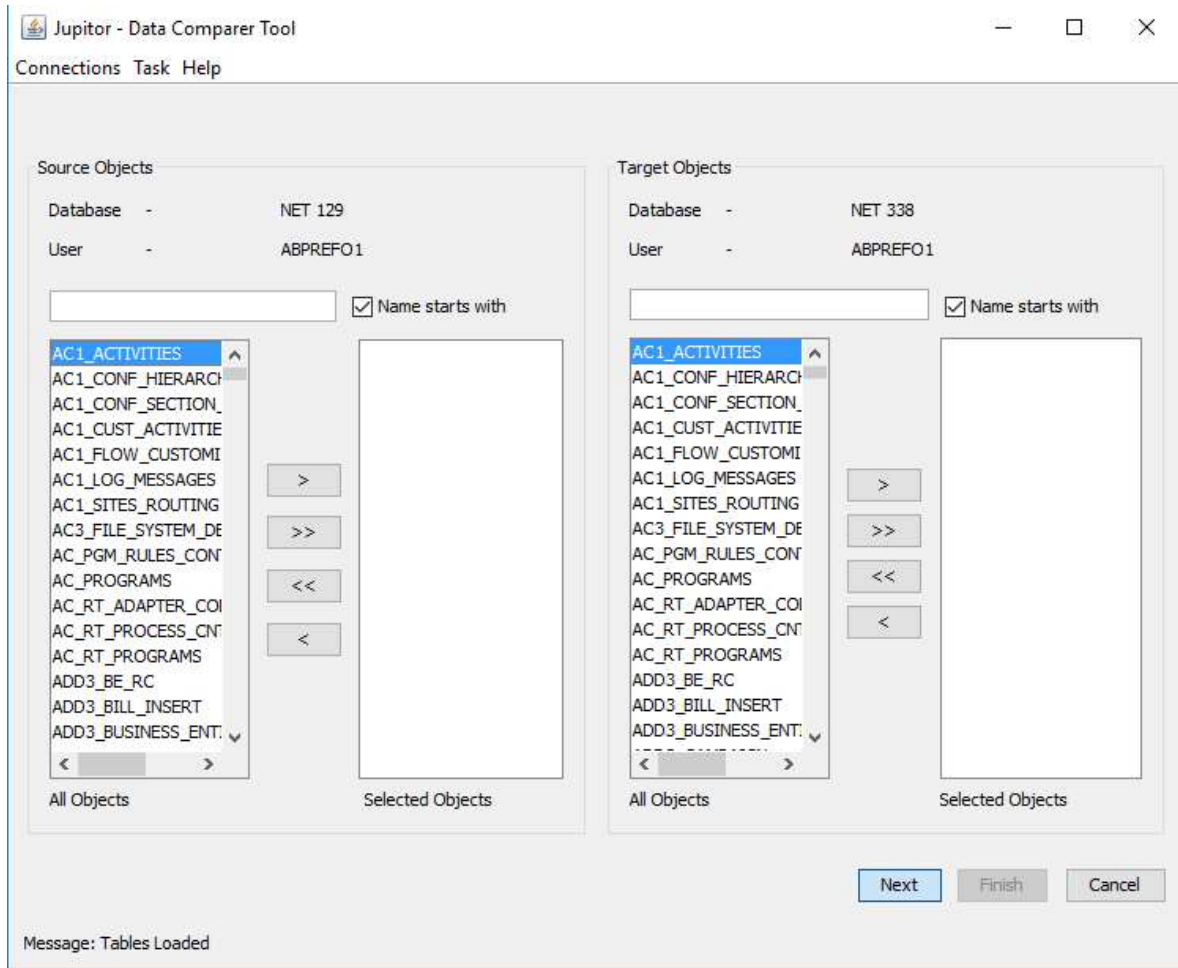
3. Table Selection

Table selection is based on a simple criterion that both the selected DBs must contain the DB selected in either of the source or target database. This means if a table is present in source and missing in target or vice versa, it won't get picked up.

Thus, corresponding tables in both DBs can only be selected and compared. Moreover, at a time you can select multiple tables or certainly all.

For e.g. To select all tables that have their names starting with B, simply type 'B' in the textbox to filter out the tables and click ⟩⟩ button to select all.

For selective tables, highlight the tables you want to select and click on ⟩ button.

The reverse functionalities can be achieved by the counterpart buttons of the above.
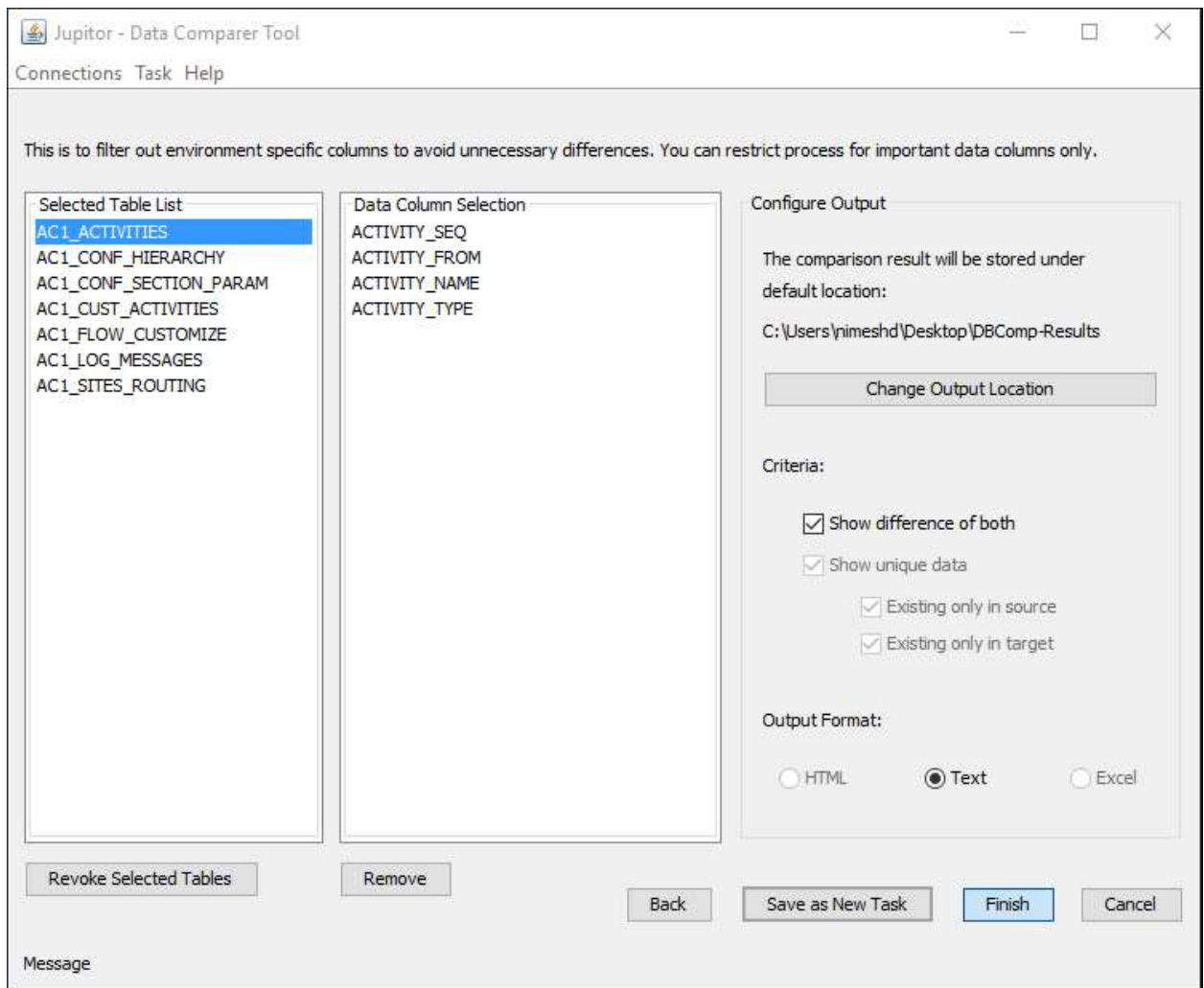
4. Column Selection

You can filter out columns that you don't want to be used in the comparison. Please note that control fields like SYS_CREATION_DATE, SYS_UPDATE_DATE, APPLICATION_ID etc. are automatically removed by the tool and this cannot be configured.

To remove a column, simply highlight it and click the remove button. The same is for revoking any selected table.

Output configuration can be customized as per need. Based on criteria, the reports report will be generated. Therefore, the output and its report will be fetched as according to the configuration defined by the user.

To run the compare, click simply on the Finish button.

5. Tasks and Help:

The selection of tables and columns done till the last page can be saved as a task. This gives the functionality to skip the configuration of database objects, that are frequently compared. Thus, by this you can simply go to Tasks -> Manage. From here, simply select the task, and execute. It will drive you to the column selection page to filter out further tables/columns if you want, configure the output according to the need and execute the comparison.

For more information, go to Help -> About.