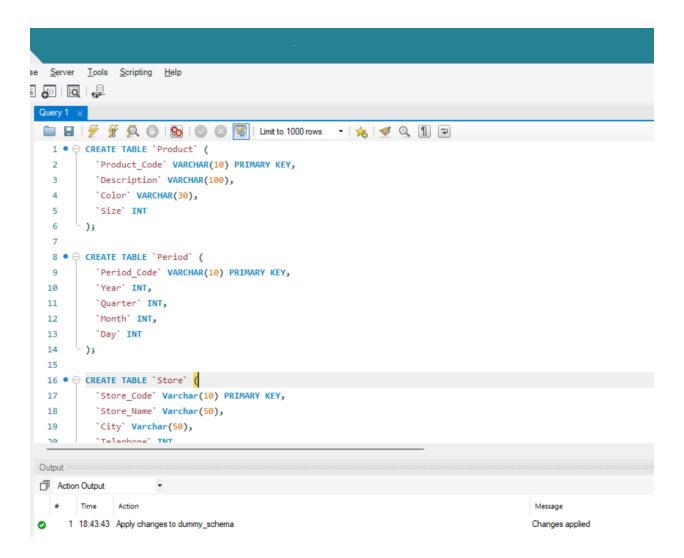
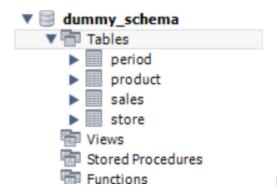
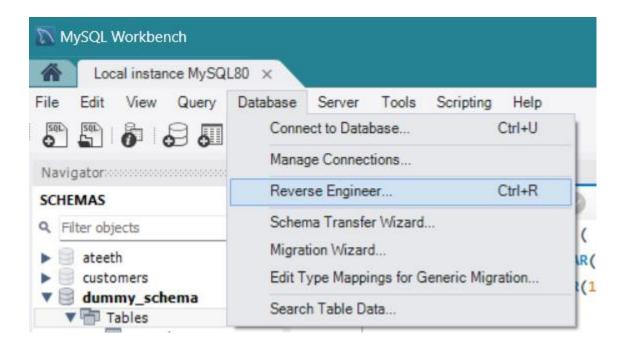
- 3. MySQL WorkBench
- i. Reverse Engineering
- I. Create a new schema(database) and execute the sample code for that database so that all tables are created in that database.



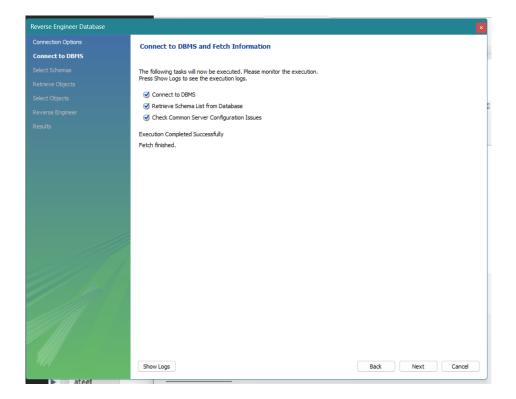


ii. In the top bar click on Database and in the dropdown

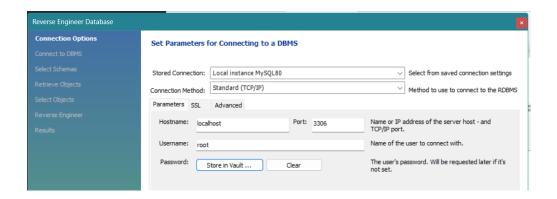
II. click on Reverse Engineer



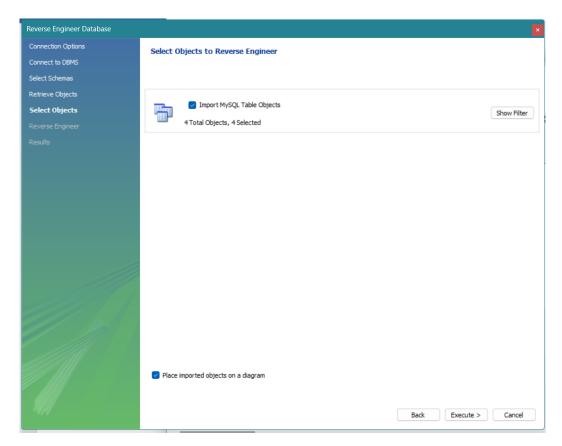
III. Fill in the following details regarding the database



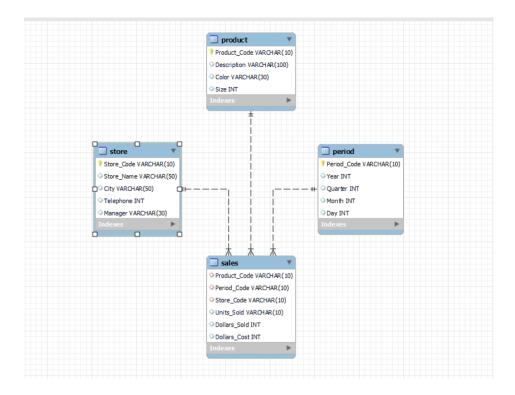
IV. The following message will be visible



V. Select the schema to import and the tables that are to be imported then execute



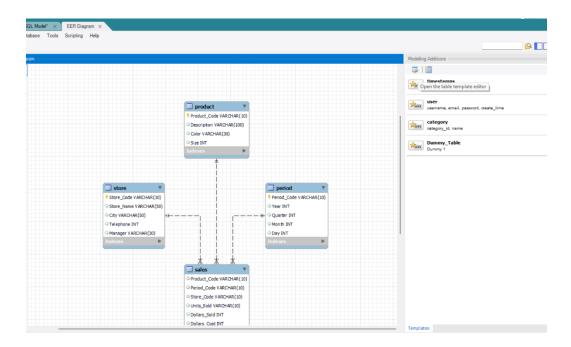
VI. The ER Diagram will be visible when Execute is clicked



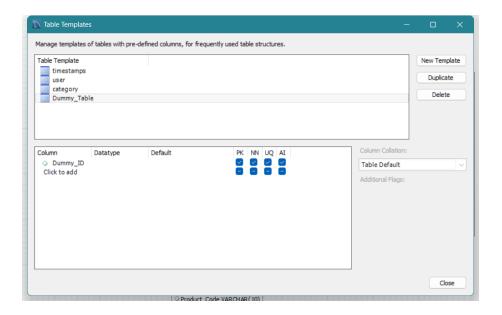
ii. Add a new table in the ER Diagram

Notice on the right side Modeling Additions

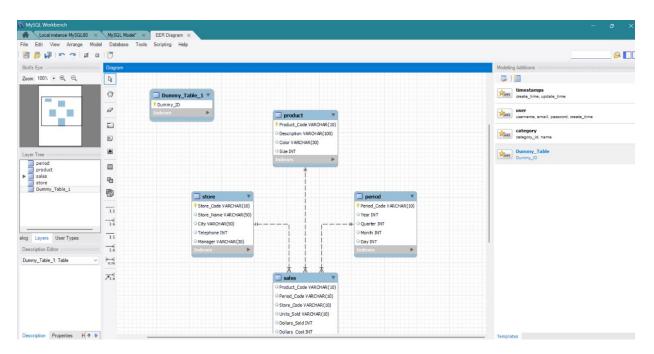
I. Click the first icon that is Open the table editor



II. Click new template rename it by double clicking the row it appears and in the bottom part of the pop up all attributes needed can be added



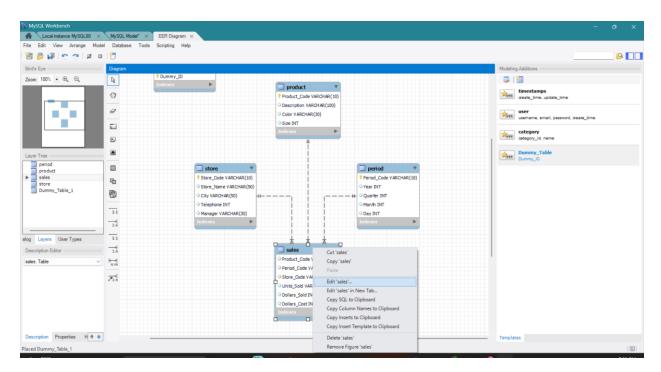
III. To add the table to the Schema on the right side modeling Additions just select the table name to be added it will be added in this case Dummy_Table is selected



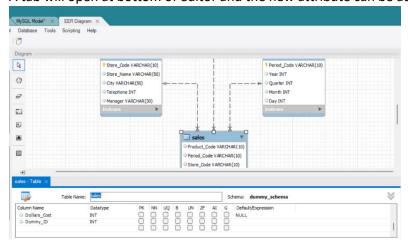
iii. Edit the tables i.e Add or Delete attributes

Note :- Sales table will be edited to add the attribute Dummy_ID as a foreign key referring Dummy_Table

I. Right click on table to be edited , click on Edit {Table_Name} / Edit {Table_Name} in new tab. Else even the table can just be double clicked .



II. A tab will open at bottom of editor and the new attribute can be added from there

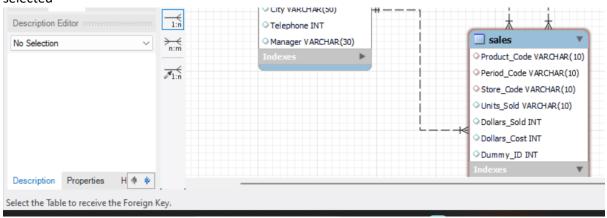


iv. Add a foreign key

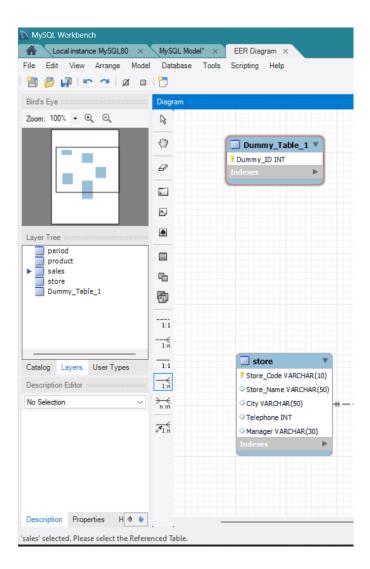
I. See the bottom 4 options select one of them. In this example 1:n i.e 3rd last icon in above screenshot is selected



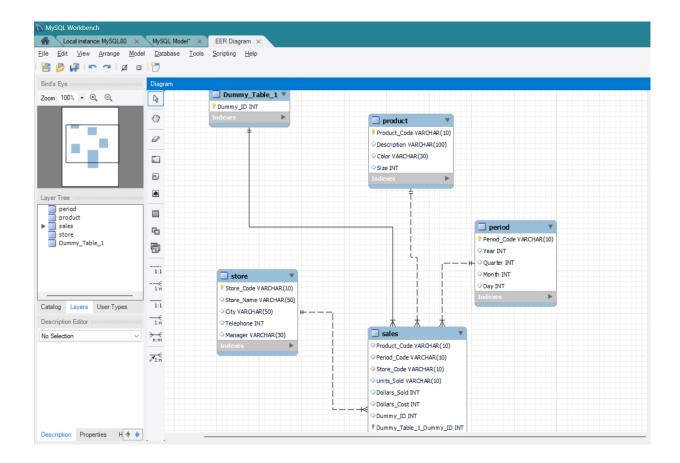
II. It will prompted to select the table that recieves foreign key. In this example Sales table selected



III. Then select Referenced table. In this example Dummy_Table selected.

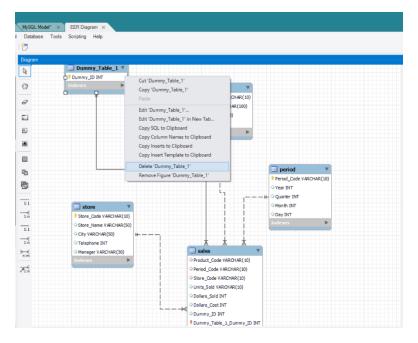


IV. Then the relationship is drawn , in this case between Dummy_Table and Sales

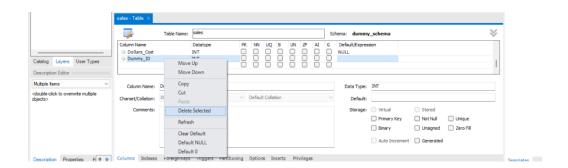


v. Delete a table or attribute

I. Right click the table and click option delete {Table_Name}



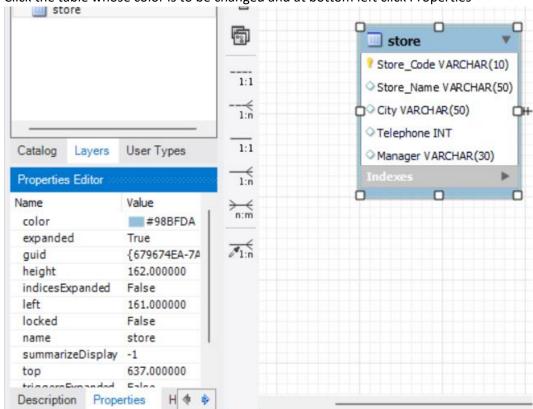
II. To delete attribute just how attribute was added double click table / right click table and click edit , then just click the attribute row in the tab that opens at the bottom , right click and select delete selected.



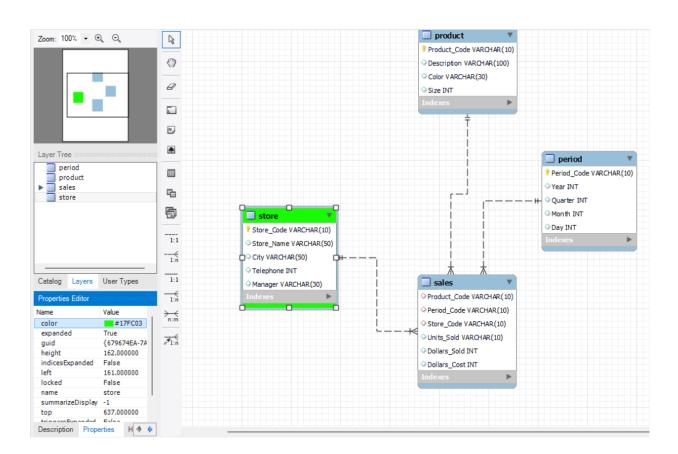
vi. Change the color of a table

Note: store table is considered at first for this example

I. Click the table whose color is to be changed and at bottom left click Properties



II. Change the color column value to any hexadecimal color. Note that store table has a new color which is light green after changing the color value. Note the color is now #17fc03



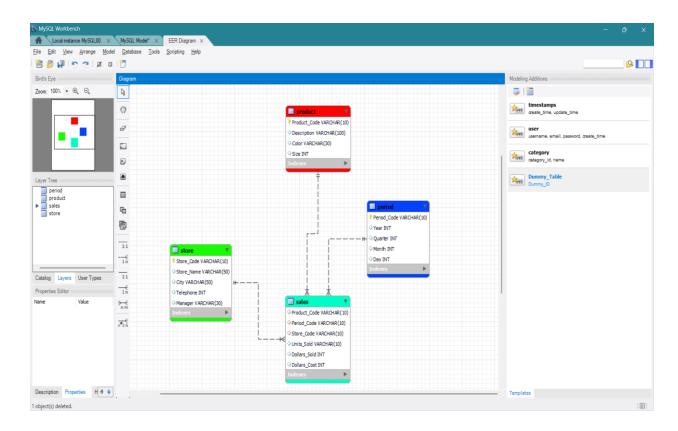
III. Now the color of all tables can be changed similarly

Product - #FC0303

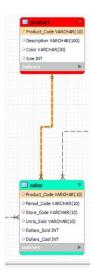
Store - #17FC03

Sales - #03FCC6

Period - #0341FC

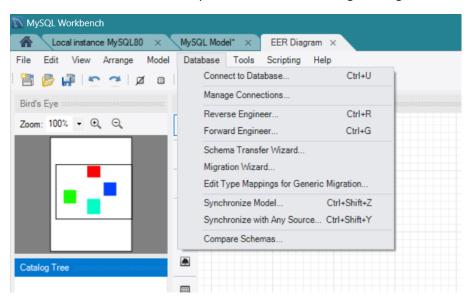


vii. Note when hovering over a relationship line, the color of relationship line and the attributes involved in the relationship change dynamically as seen in the below example.

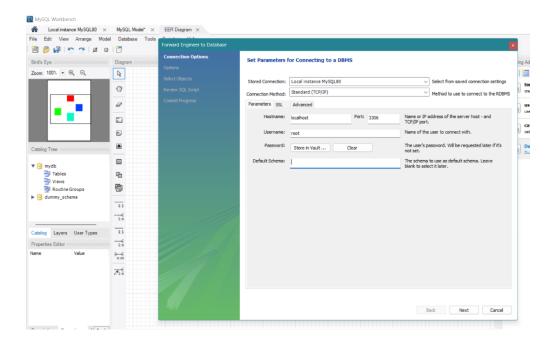


viii. Export the schema diagram i.e Forward Engineering

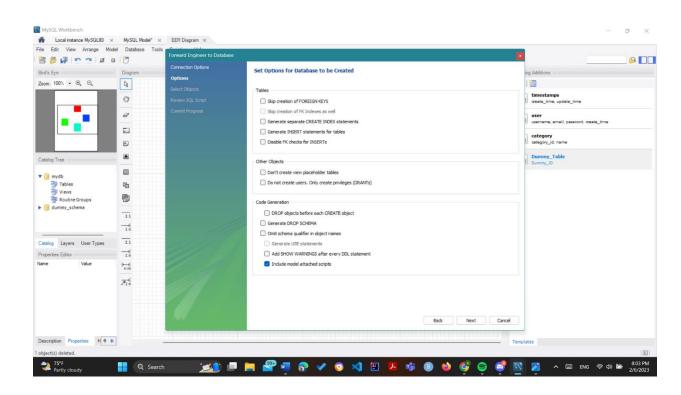
I. Click Database in top menu then Forward Engineering



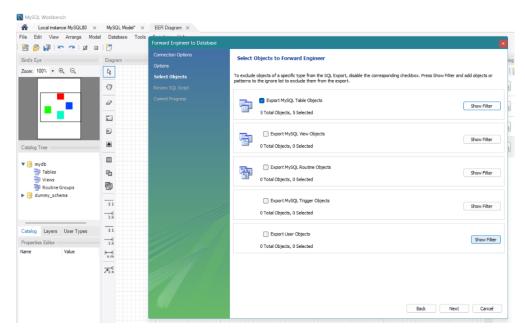
II. Fill Required details



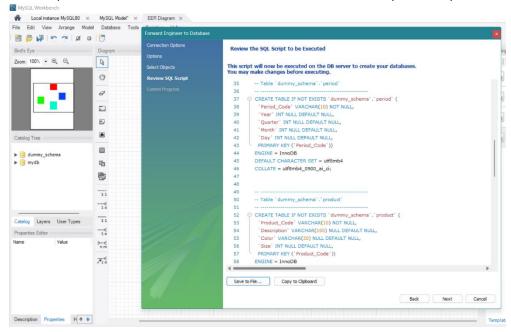
III. Select any options if needed



IV. Select any options if needed



V. SQL Script is visible and can be saved to a file or else it can be copied to clipboard



Then the code is executed and the code can be saved in clipboard or in a file