

Data analytics Assignment-1

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Course Name : SmartBridge -VIT EXTERNSHIP (DATA ANALYTICS)

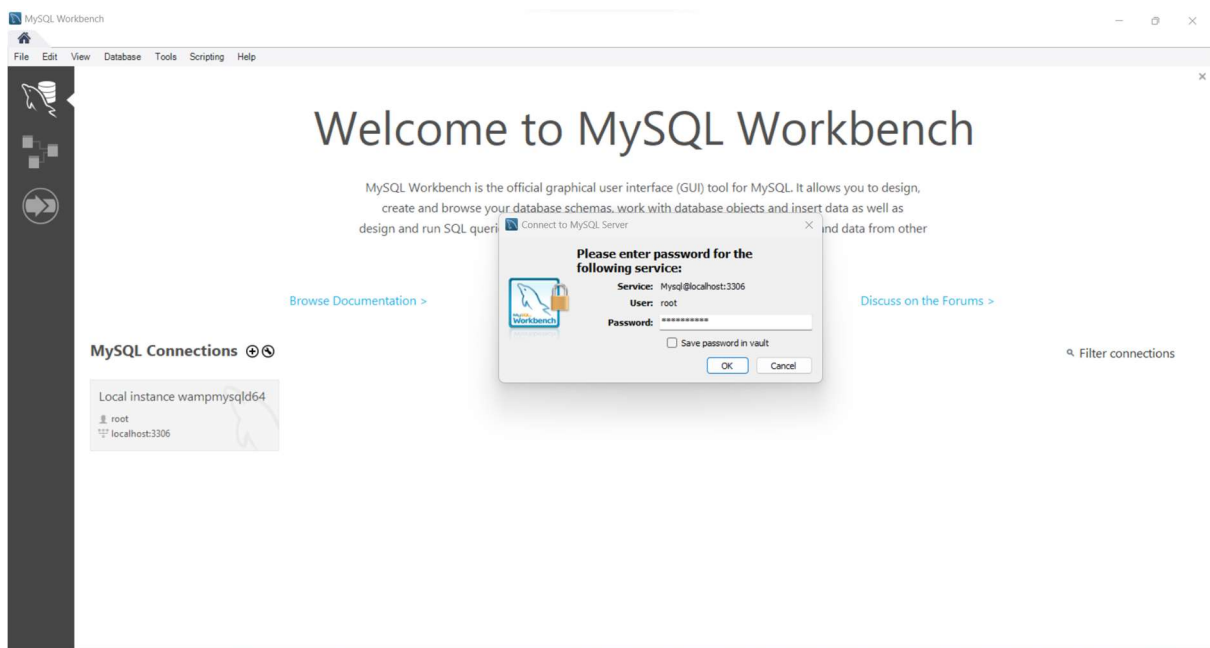
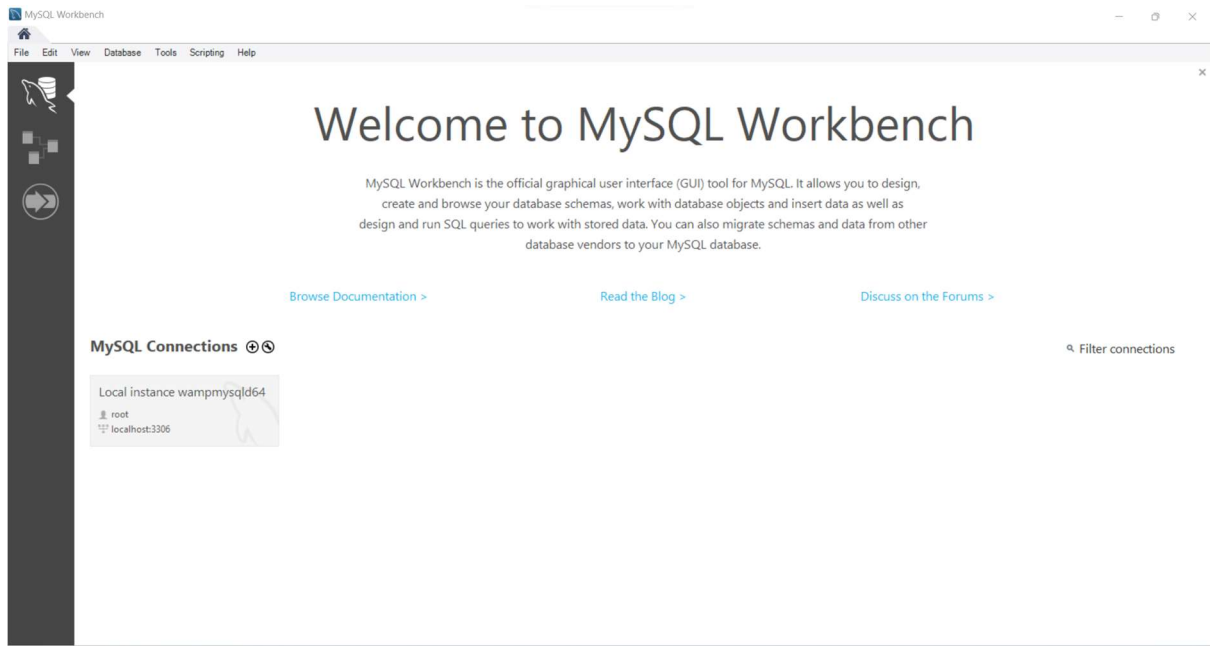
Tasks:

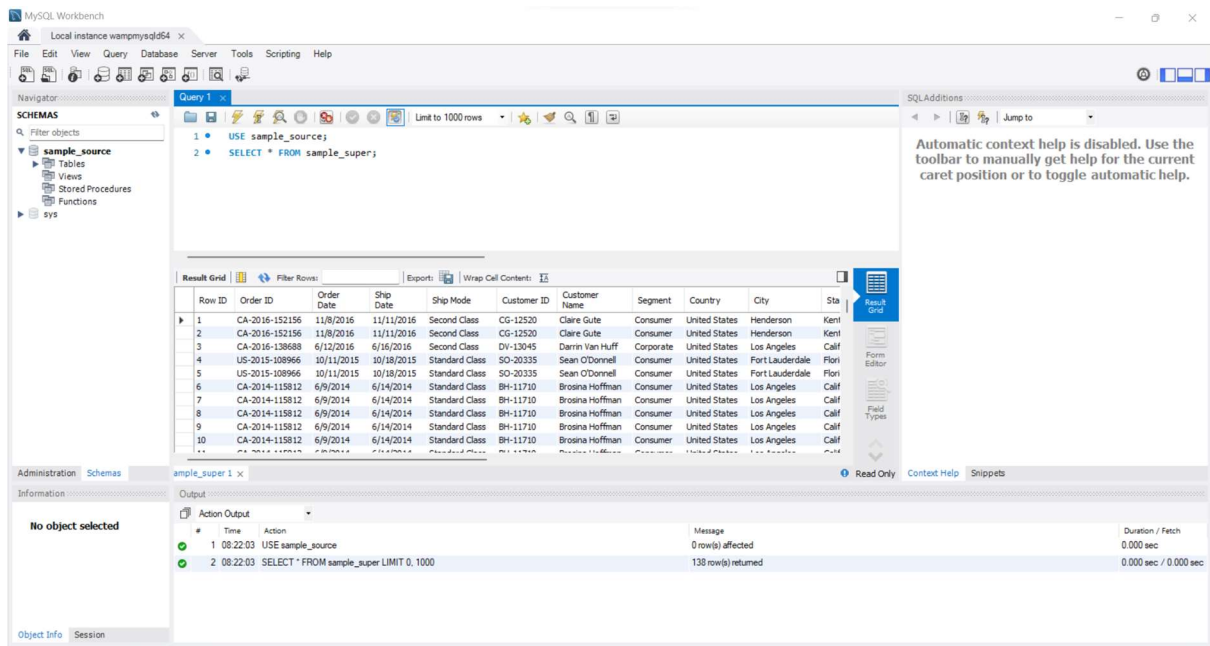
- 1) Download tableau desktop & Mysql in your PC or laptop
- 2) Create a new schema in your Mysql workbench and upload your data
- 3) Connect your Mysql and Tableau
- 4) Create the below 5 charts/plots
 - Bar chart
 - Tree map
 - Heatmap
 - Pie chart
 - Horizontal bar chart

1) Download tableau desktop & Mysql in your PC or laptop

Tableau desktop:

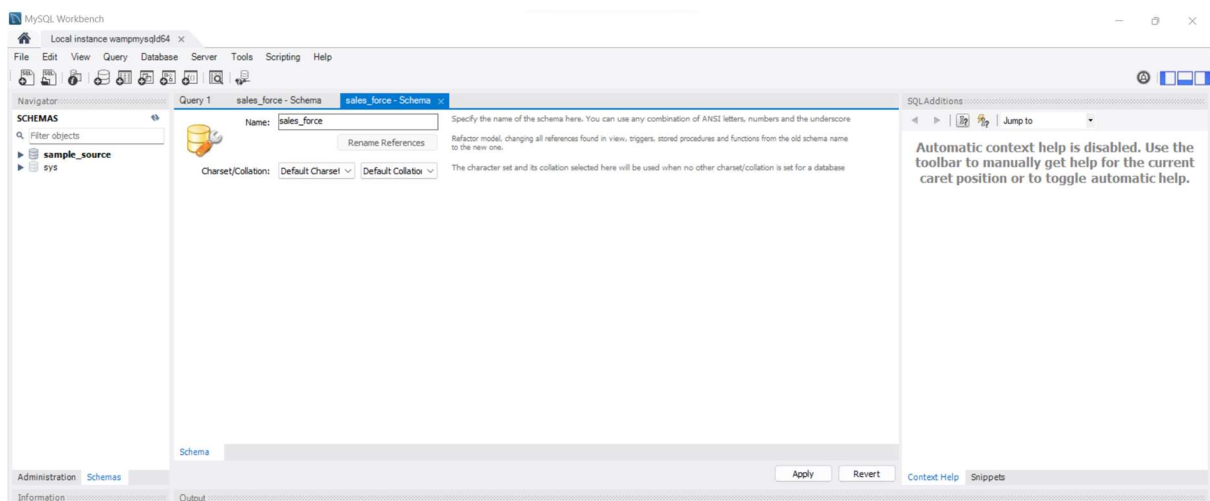


Mysql:



2) Create a new schema in your Mysql workbench and upload your data

Step-1: creating **sales_force** scheme as shown in below figure.



Step-2: click on apply and it will redirect into next page as shown below and then click on apply:

Apply SQL Script to Database

Review SQL Script

Apply SQL Script

Review the SQL Script to be Applied on the Database

Online DDL

Algorithm: Default

Lock Type: Default

1 CREATE SCHEMA `sales_force` ;

2

Back

Apply

Cancel

Step -3: click on finish button as shown below

Apply SQL Script to Database

Review SQL Script

Apply SQL Script

Applying SQL script to the database

The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.

Execute SQL Statements

SQL script was successfully applied to the database.

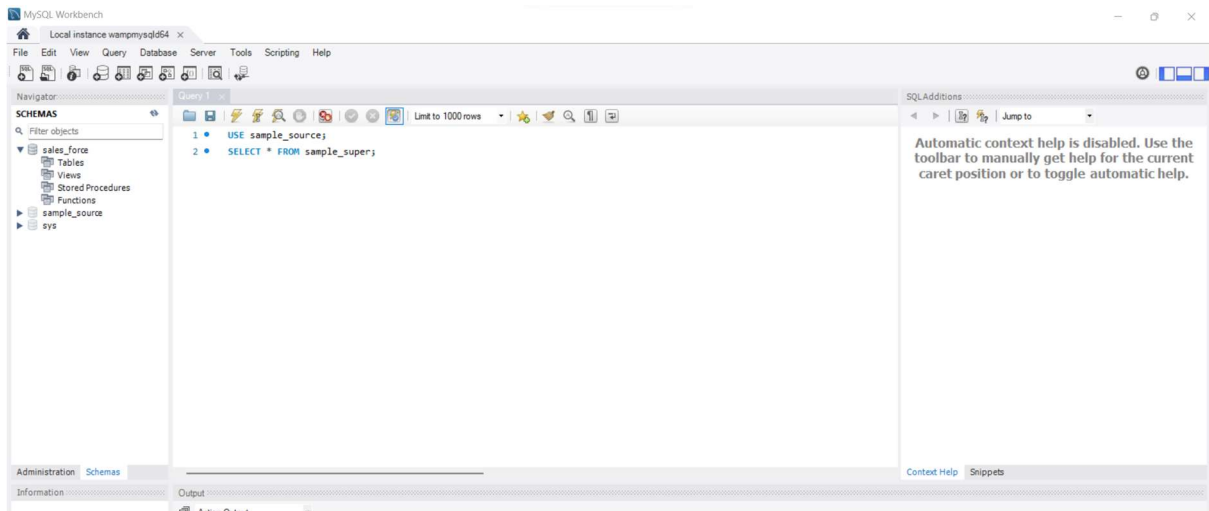
Show Logs

Back

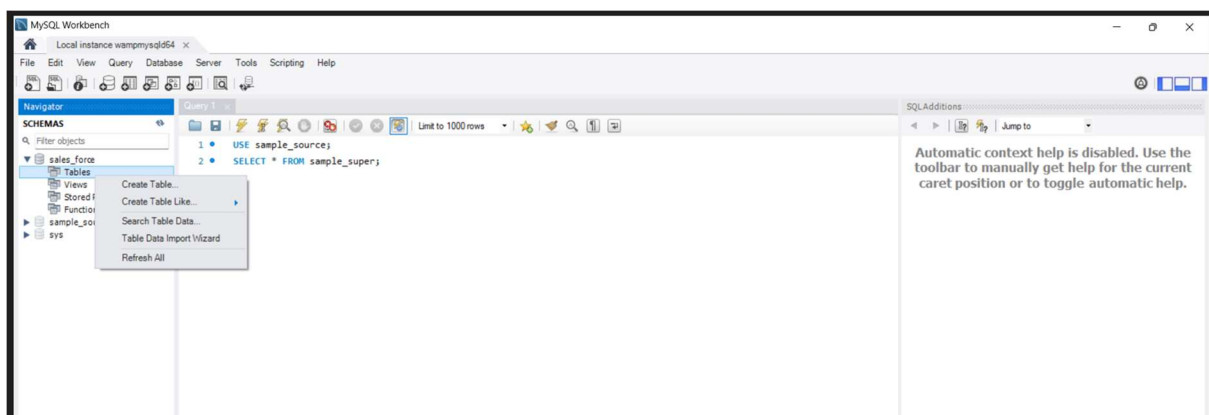
Finish

Cancel

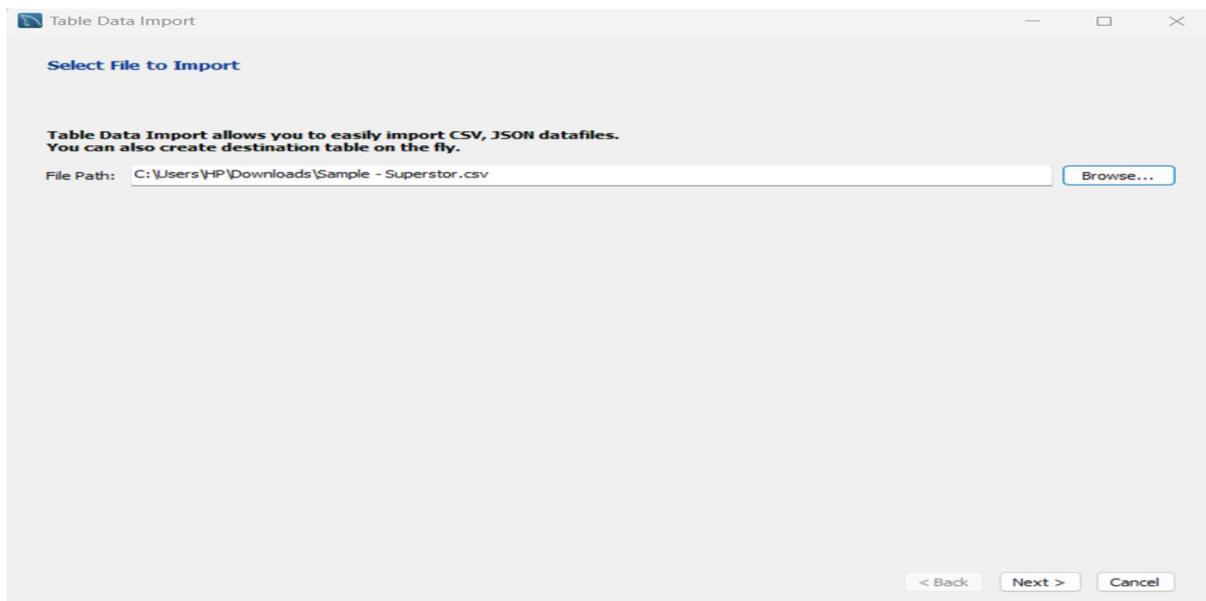
Step-4: in schemas section, **sales_force** schema as shown below:



Step-5: click on left side arrow of sales_force it will display a dropdown as shown below right click on table, then click on **table data import wizard** to import the data as shown below:

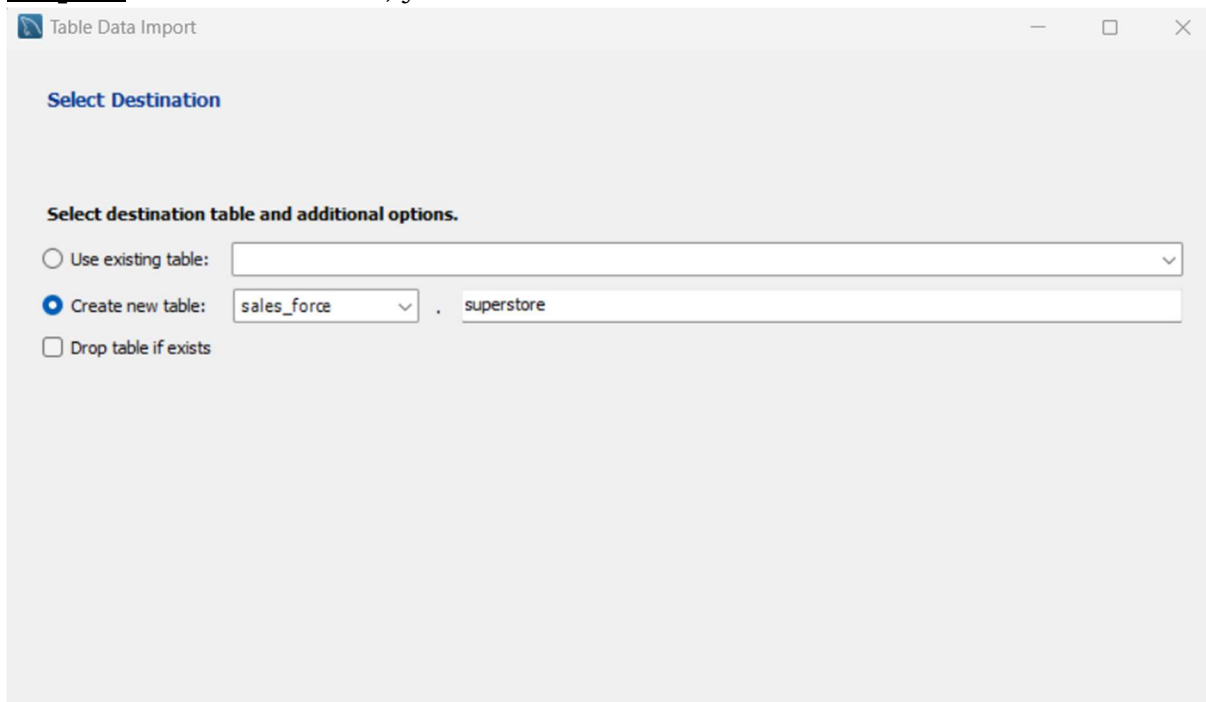


Step-6: click on browse button to import the data you want as shown below:



The screenshot shows a window titled "Table Data Import" with a close button (X) in the top right corner. The main heading is "Select File to Import". Below this, a text box states: "Table Data Import allows you to easily import CSV, JSON datafiles. You can also create destination table on the fly." Underneath, there is a "File Path:" label followed by a text input field containing "C:\Users\HP\Downloads\Sample - Superstor.csv". To the right of the input field is a "Browse..." button. At the bottom right of the window, there are three buttons: "< Back", "Next >", and "Cancel".

Step-7: after click on next, you need to name the table as shown below:



The screenshot shows the same "Table Data Import" window, but now the heading is "Select Destination". Below this, a text box states: "Select destination table and additional options." There are three radio button options: "Use existing table:" with an empty dropdown menu, "Create new table:" which is selected, and "Drop table if exists". The "Create new table:" option has two sub-inputs: a dropdown menu showing "sales_force" and a text input field containing "superstore".

Step-8: click on next after naming the table then it will show configure import setting and then click on next and again click on next to import all data then it will show import data results as shown below:

Table Data Import

Configure Import Settings

Detected file format: csv

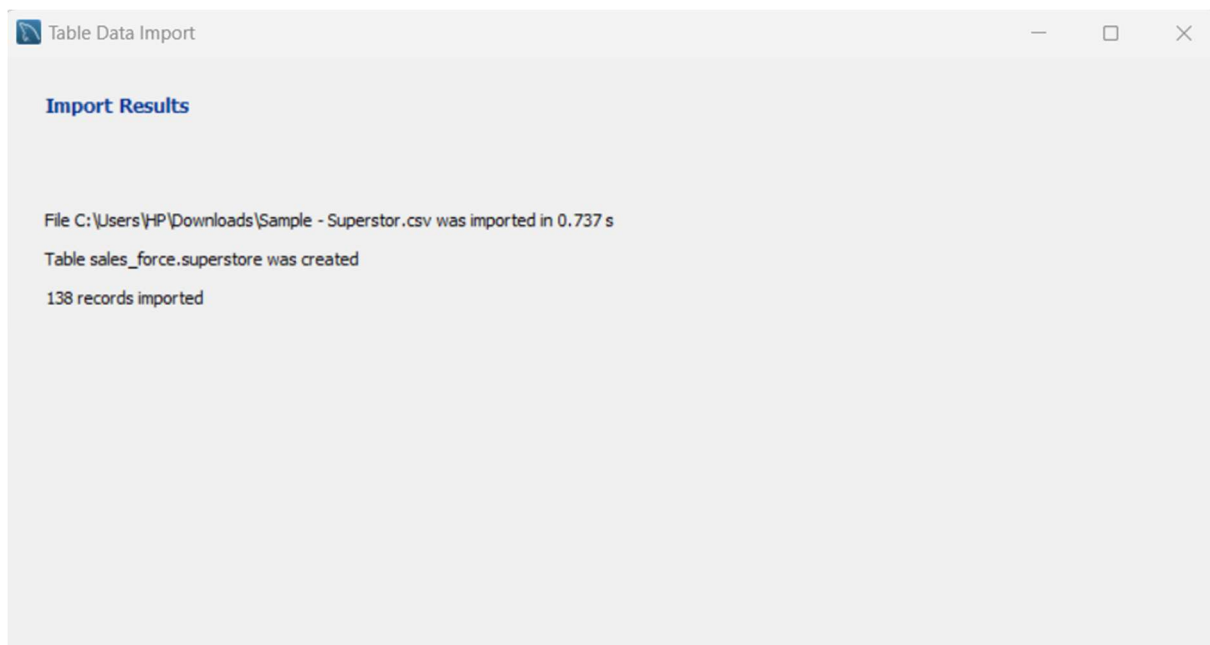
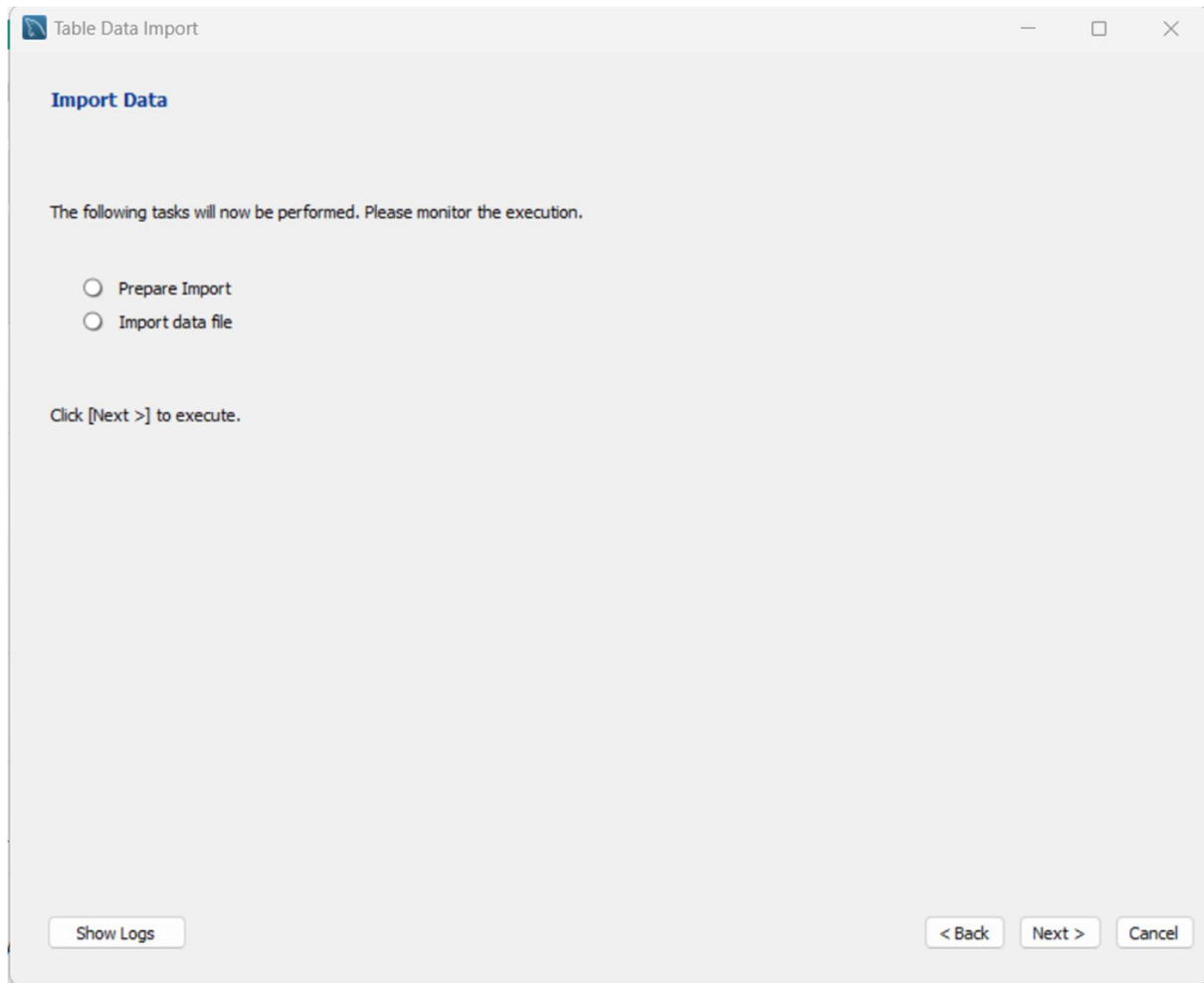
Encoding: utf-8

Columns:

Source Column	Field Type
<input checked="" type="checkbox"/> Row ID	int
<input checked="" type="checkbox"/> Order ID	text
<input checked="" type="checkbox"/> Order Date	text
<input checked="" type="checkbox"/> Ship Date	text
<input checked="" type="checkbox"/> Ship Mode	text
<input checked="" type="checkbox"/> Customer ID	text

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer ...	Segment	Country	City
1	CA-2016-15...	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Hender
2	CA-2016-15...	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Hender
3	CA-2016-13...	6/12/2016	6/16/2016	Second Class	DV-13045	Darrin Van...	Corporate	United States	Los Ang
4	US-2015-10...	10/11/2015	10/18/2015	Standard Cl...	SO-20335	Sean O'Don...	Consumer	United States	Fort Lai

< Back Next > Cancel



Step-9: to check whether data is imported or not write a sql query to display contents from table as shown below:

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying the following SQL query:

```
1. USE sales_force;
2. SELECT * FROM superstore;
```

The 'Result Grid' shows the following data:

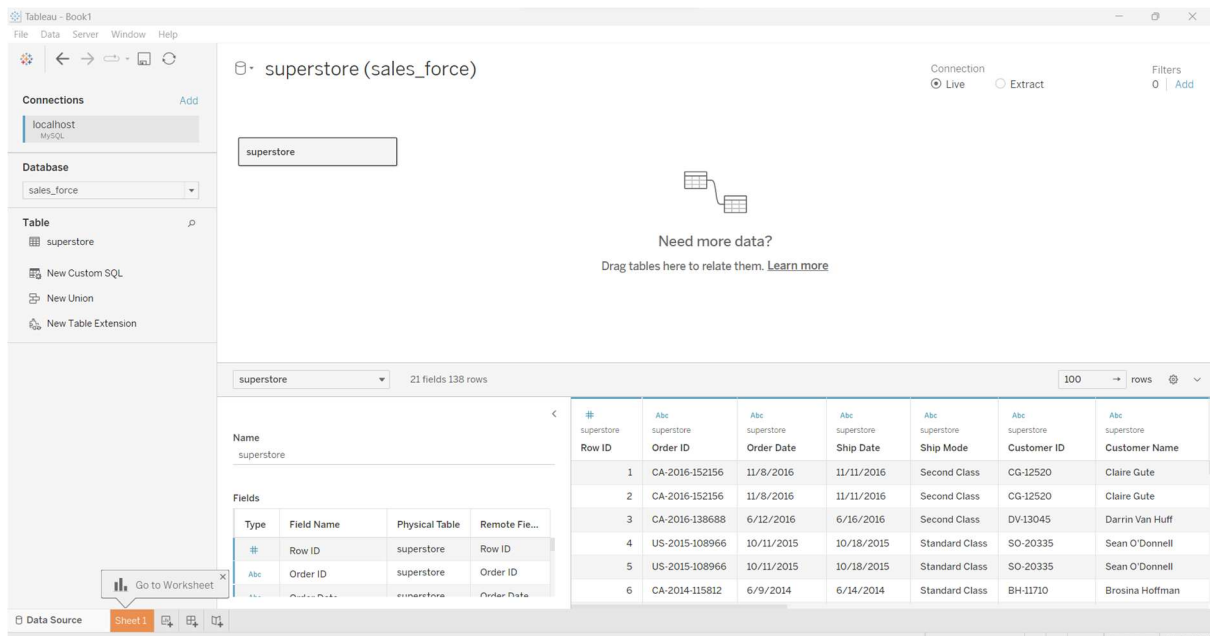
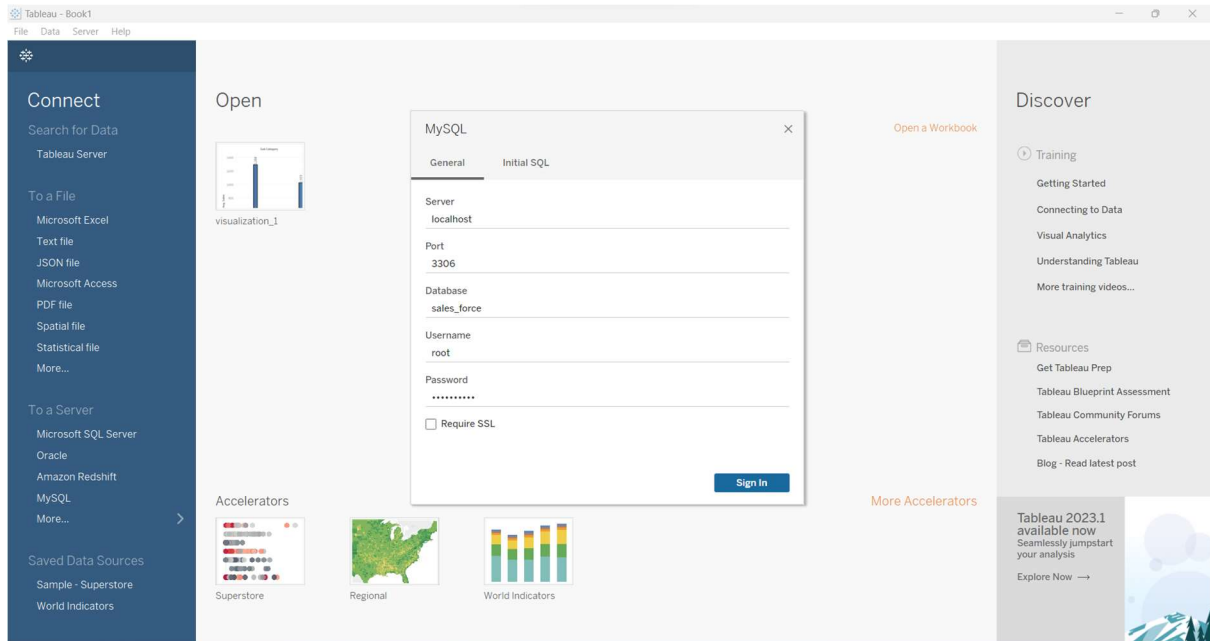
Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State
1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gule	Consumer	United States	Henderson	Kent
2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gule	Consumer	United States	Henderson	Kent
3	CA-2016-138688	6/12/2016	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	Calif
4	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Flori
5	US-2015-108966	10/11/2015	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Flori
6	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	Calif
7	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	Calif
8	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	Calif
9	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	Calif
10	CA-2014-115812	6/9/2014	6/14/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	Calif

The 'Action Output' tab shows the following actions and their results:

#	Time	Action	Message	Duration / Fetch
4	09:14:34	SHOW TABLES FROM 'sales_force' like 'superstore'	OK	0.000 sec
5	09:15:38	CREATE TABLE 'sales_force'.'superstore' ('Row ID' int, 'Order ID' text, 'Order Date' text, 'Ship Date' text, 'Sh...	OK	0.000 sec
6	09:15:38	PREPARE stmt FROM 'INSERT INTO 'sales_force'.'superstore' ('Row ID','Order ID','Order Date','Ship Date')...	OK	0.000 sec
7	09:15:39	DEALLOCATE PREPARE stmt	OK	0.000 sec
8	09:20:18	USE sales_force	0 row(s) affected	0.000 sec
9	09:20:18	SELECT * FROM superstore LIMIT 0, 1000	138 row(s) returned	0.000 sec / 0.000 sec

3) Connect your Mysql and Tableau

- After opening both tableau and mysql, in tableau left side pane there will connect menu in that go to a server section in that click on Mysql as show below.
- it will mysql dialog box in that enter all the details like sever, port, data-base name, username and password(the password which we used for mysql after entering all detail, click on sign it will be redirect into next page as shown below:

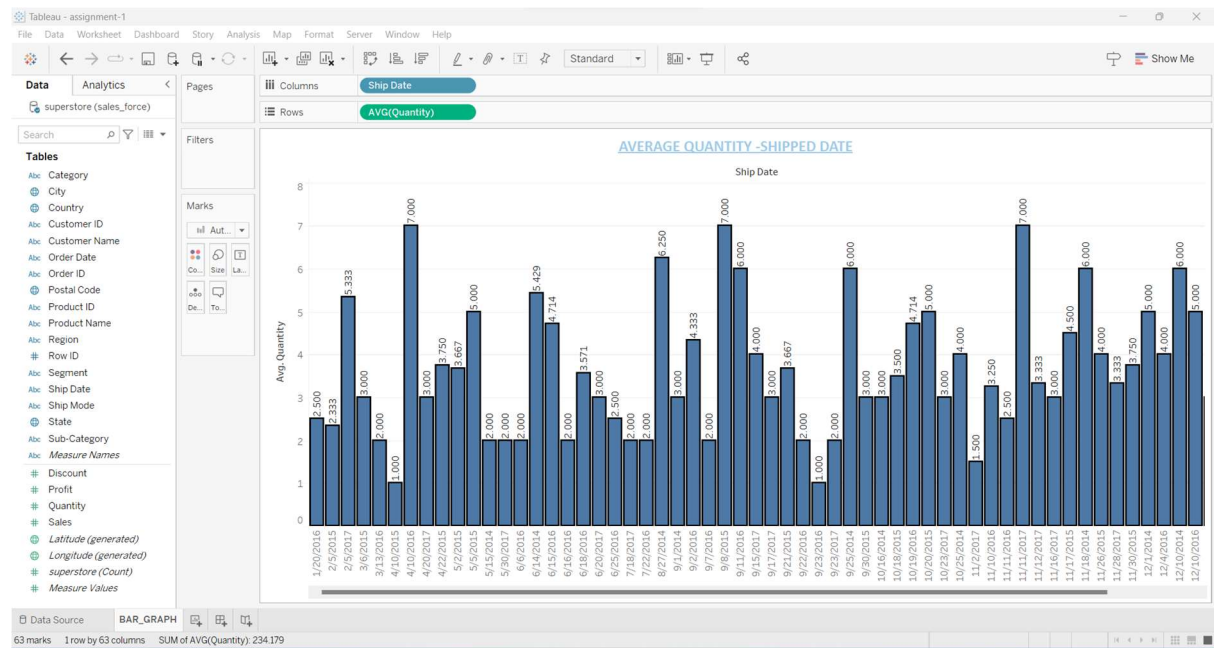


4) Create the below 5 charts/plots

- Bar chart
- Tree map
- Heatmap
- Pie chart
- Horizontal bar chart

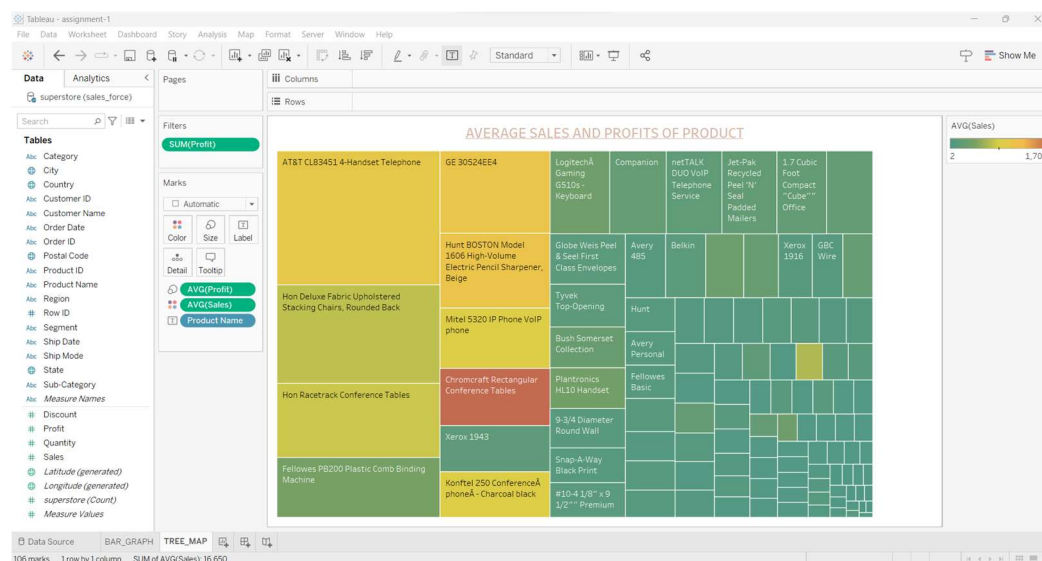
Bar chart:

-Average quantity of shipped date



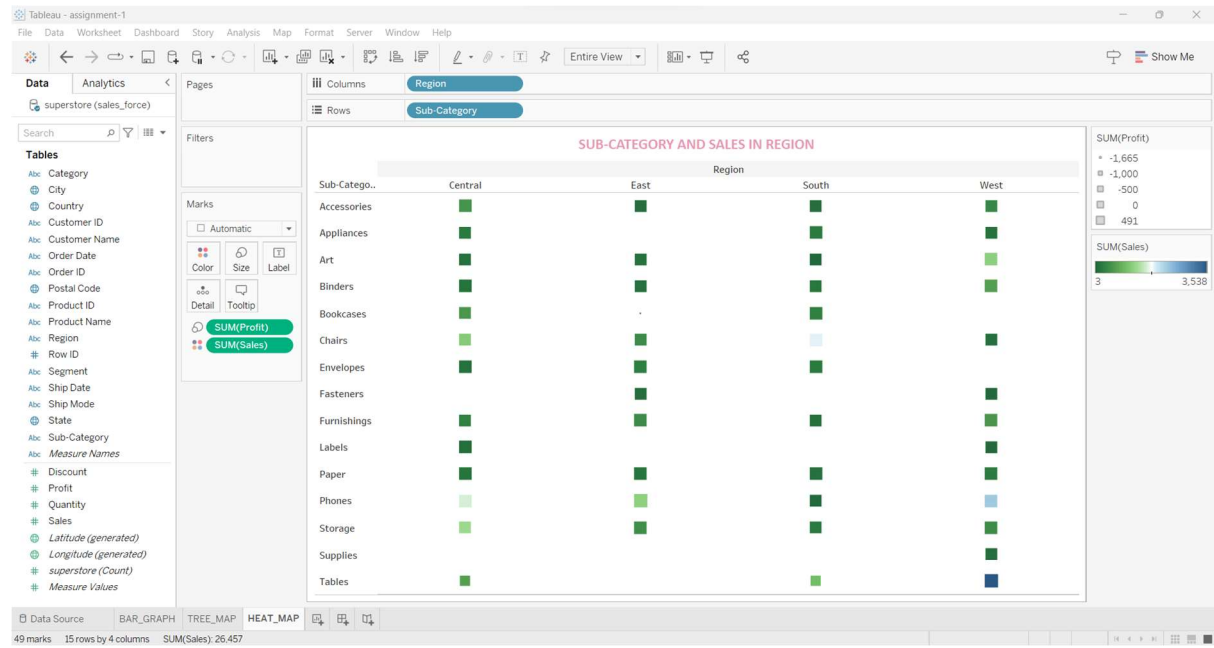
TREE MAP:

-average sales and profits of product



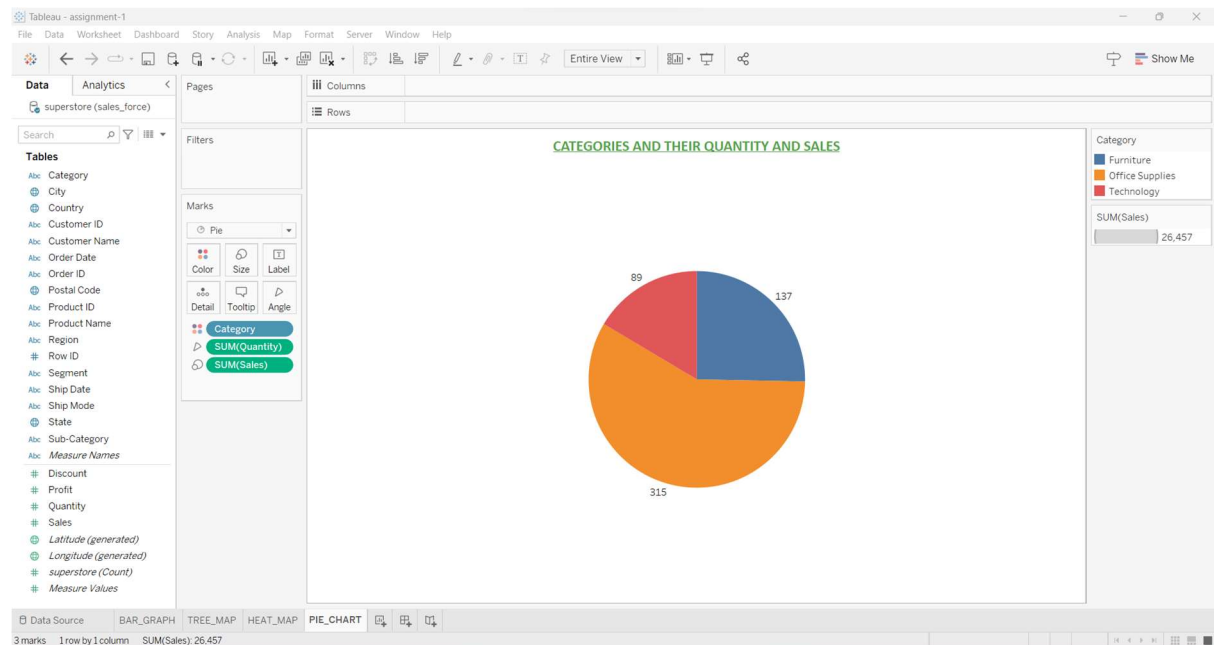
Heat map:

- subcategories and its sales in regions



PIE CHART:

-Categories and their quantities and sales



HORIZONTAL BAR CHART:

-customers and sales

