To configure, monitor, and administer a Data warehouse and perform basic Query operations on the DW.	
Tools: SQL Server Management Studio (SSMS), Microsoft Azure SQL Pool	

TASK 2a

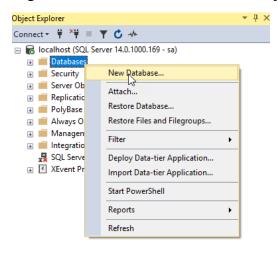
AIM

Create a new database in SQL Server and execute the script to configure and load the sample database.

PROCEDURE:

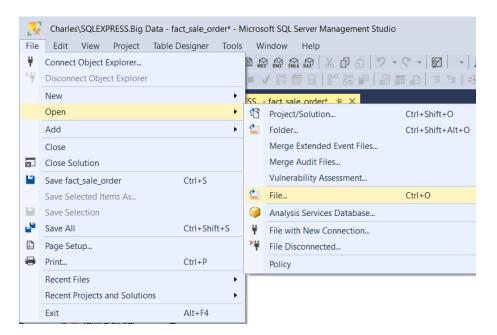
Connect to the SQL Server by choosing the server name, enter the user and password and click the Connect button.

Right-click the Databases node in the Object Explorer and select the New Database... menu item

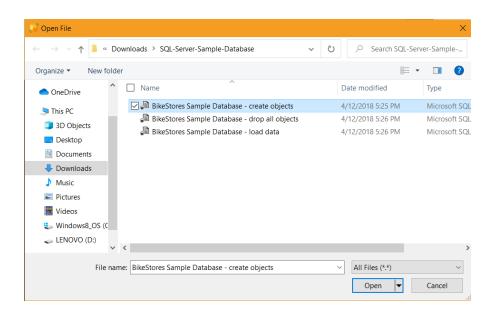


Enter the **Database name** as BikeStores and click the **OK** button to create the new database.

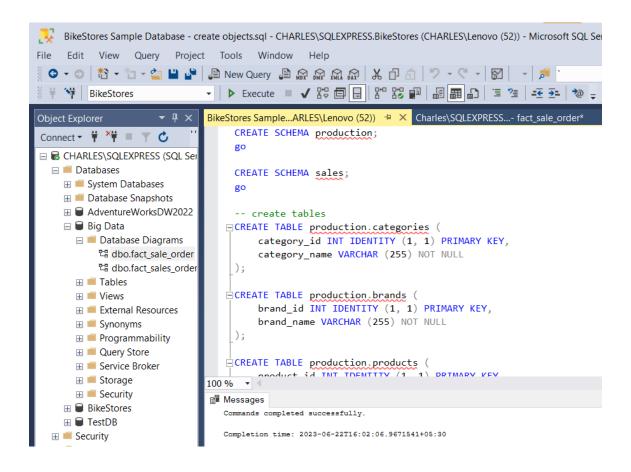
From the File menu, choose Open > File... menu item to open a script file.



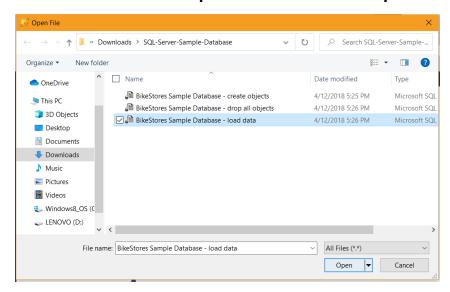
Select the **BikeStores Sample Database – create** objects.sql file and click the Open button



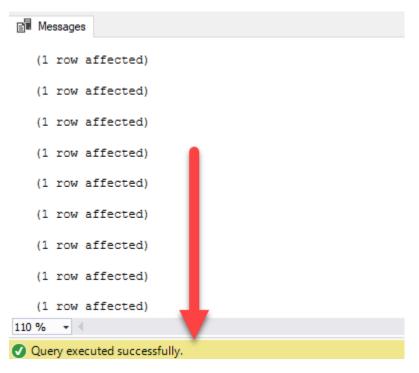
Click the **Execute** button to execute the SQL script



Choose the **BikeStores Sample Database – load data.sql** file and click the Open button.



Click the **Execute** button to load data into the tables.

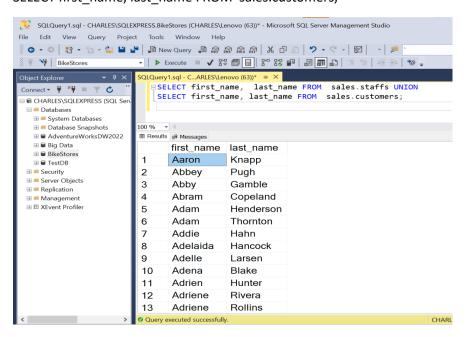


Execute query to display the values from production products table.

QUERY OPERATIONS ON THE DATA WAREHOUSE

UNION OPERATION

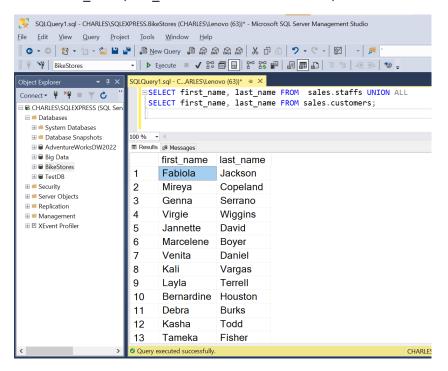
SELECT first_name, last_name FROM sales.staffs UNION SELECT first_name, last_name FROM sales.customers;



UNION ALL OPERATION

SELECT first_name, last_name FROM sales.staffs UNION ALL

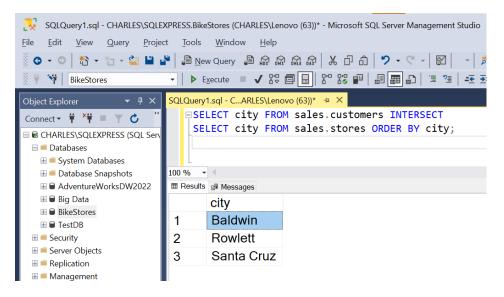
SELECT first_name, last_name FROM sales.customers;



INTERSECT OPERATION

SELECT city FROM sales.customers INTERSECT

SELECT city FROM sales.stores ORDER BY city;



JOIN OPERATION

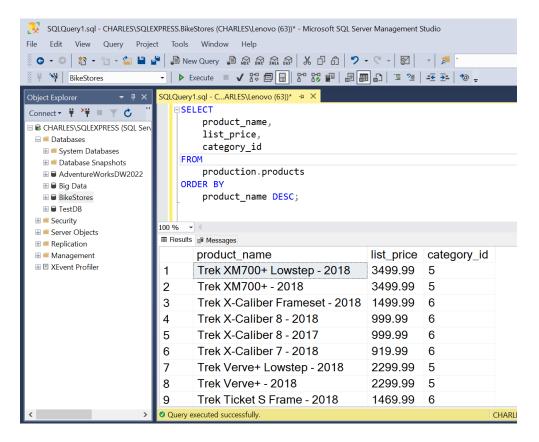
INNER JOIN

```
SELECT

product_name,
list_price,
category_id

FROM
production.products

ORDER BY
product_name DESC;
```



LEFT JOIN

```
SELECT

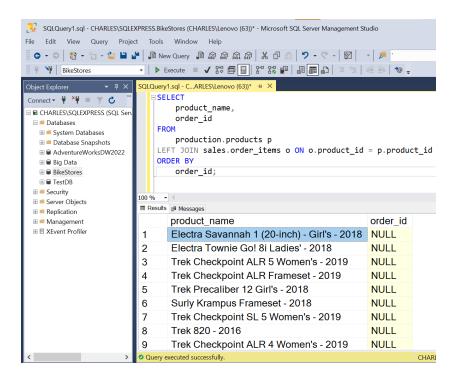
product_name,
order_id

FROM

production.products p

LEFT JOIN sales.order_items o ON o.product_id = p.product_id

ORDER BY
order_id;
```



RESULT:

Thus the basic SQL operation was executed using MS Server Management Studio and SQL Server.

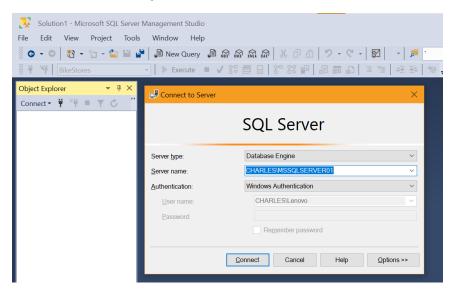
TASK 2b:

AIM

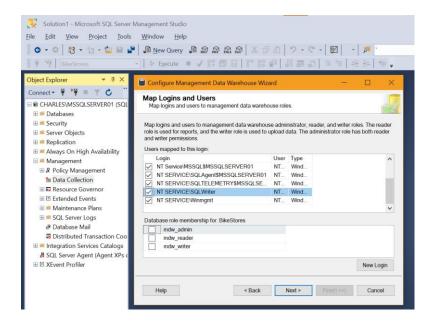
To configure, monitor, and administer a Data warehouse

PROCEDURE

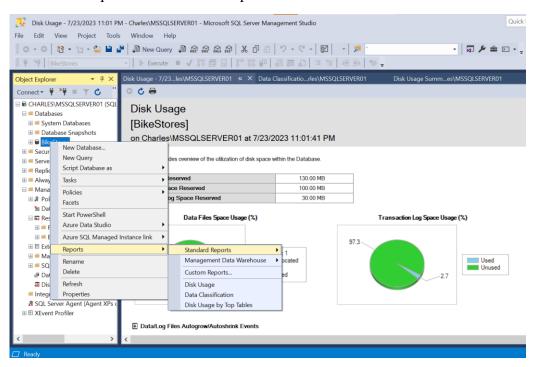
- 1. Install Microsoft SQL server Management Studio
- 2. Install MS Sql Server Developer Edition
- 3. Connect to the SQL Server



- 4. Choose Management -> Data Collection in the left side navigation bar
- 5. Right click on the Data collection > Tasks -> Configure Management Data Warehouse and Configure the data warehouse settings
- 6. Select Server Name and Database name and click next button
- 7. Change the settings in map login and users
 - a. User mapped to this login
 - b. Database membership for BikeStores



- 8. Check the Settings and Click finish button
- 9. Moniter and generate the various reports for the BikeStores, Right click the Bikestores-> Reports -> Standard Reports and select the reports needed.



Result:

Thus a Data warehouse was configured, monitored, and administered using MS Server Management and SQL Server was completed successfully.