Task No: 2 Date:	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

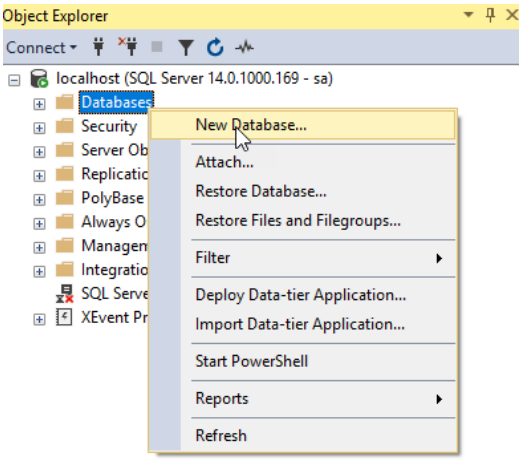
AIM

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

PROCEDURE:

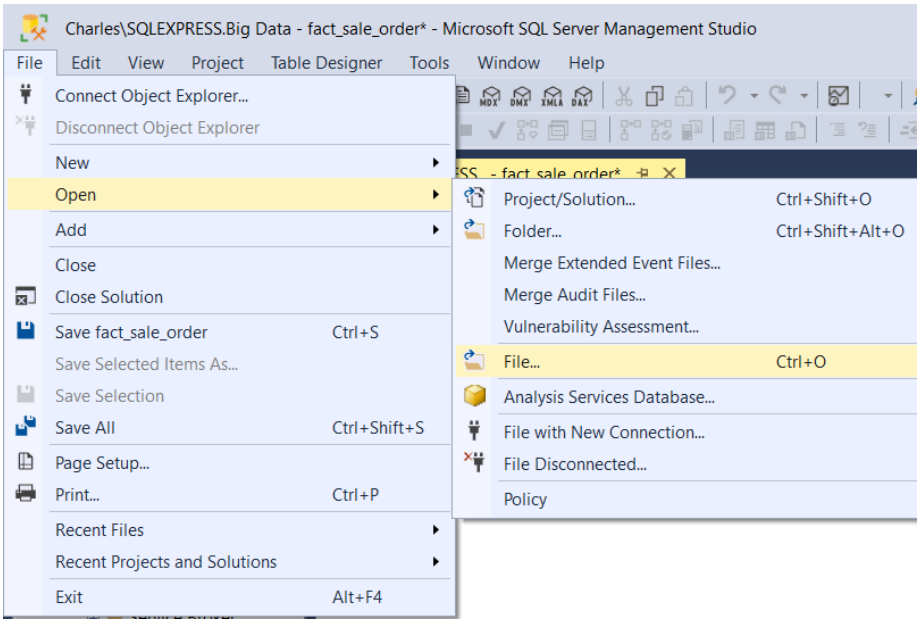
Connect to the SQL Server by choosing the server name, enter the user and password and click the Connect button.

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

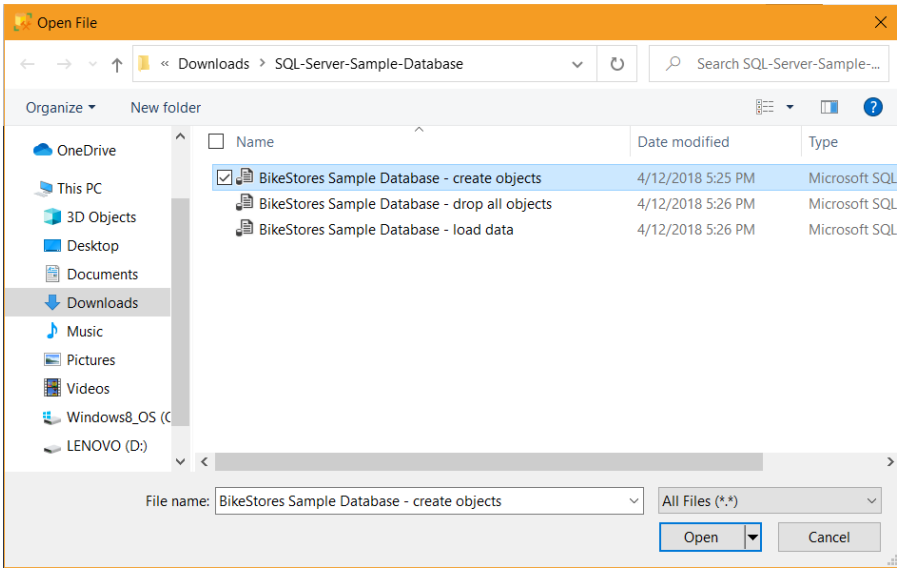


Enter the **Database name** as BikeStores and click the **OK** button to create the new database.

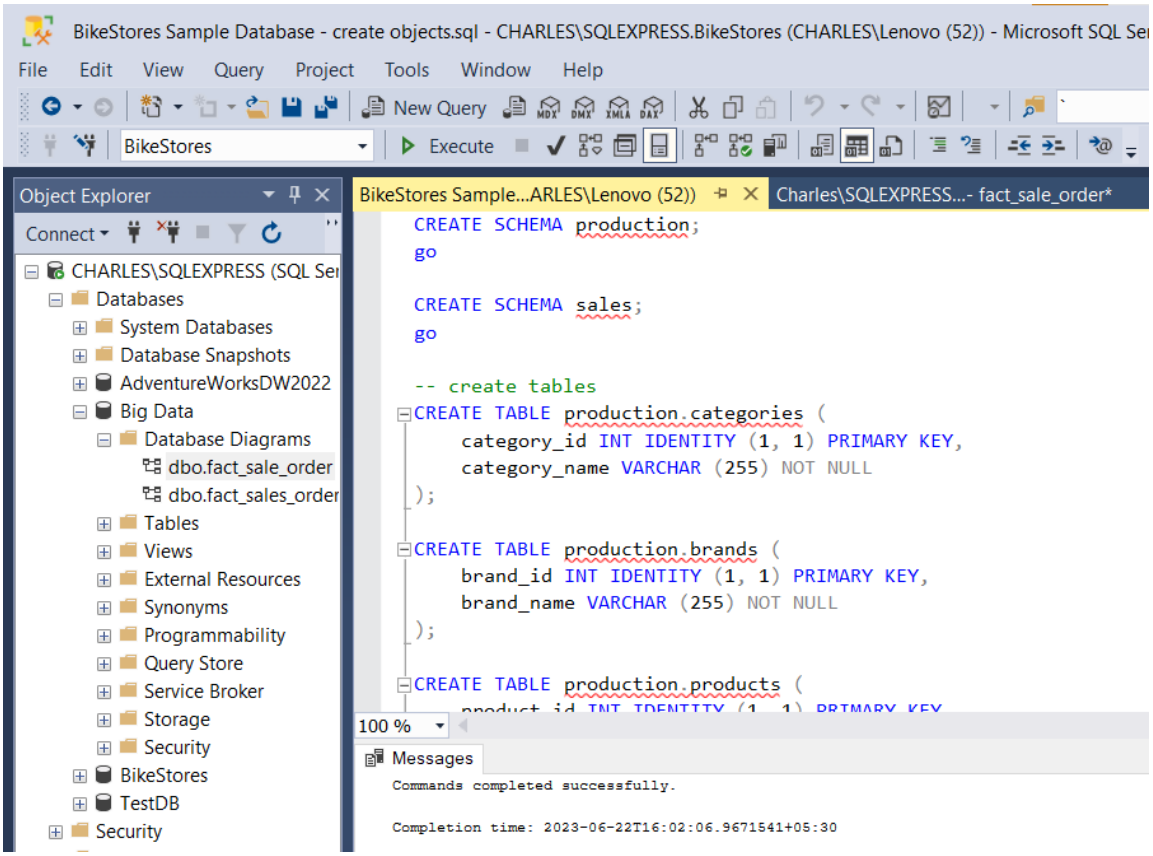
From the File menu, choose Open > File... menu item to open a script file.



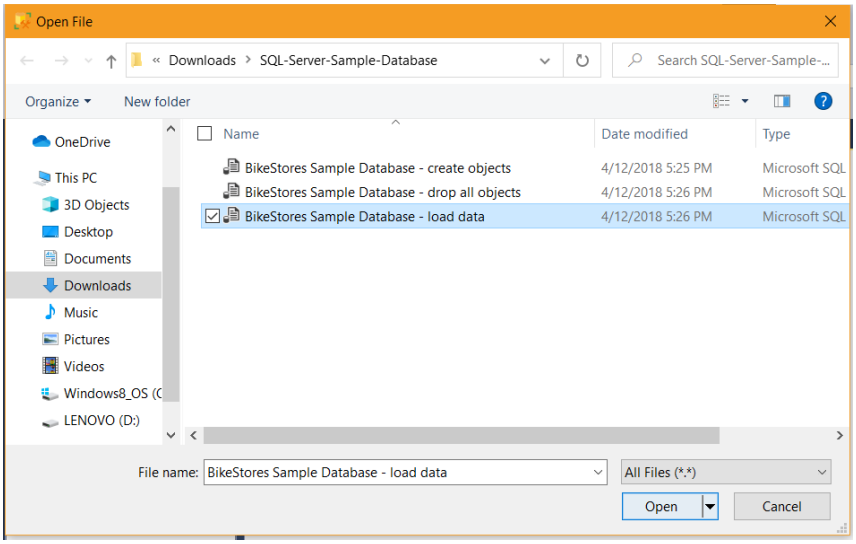
Select the **BikeStores Sample Database – create** objects.sql file and click the Open button



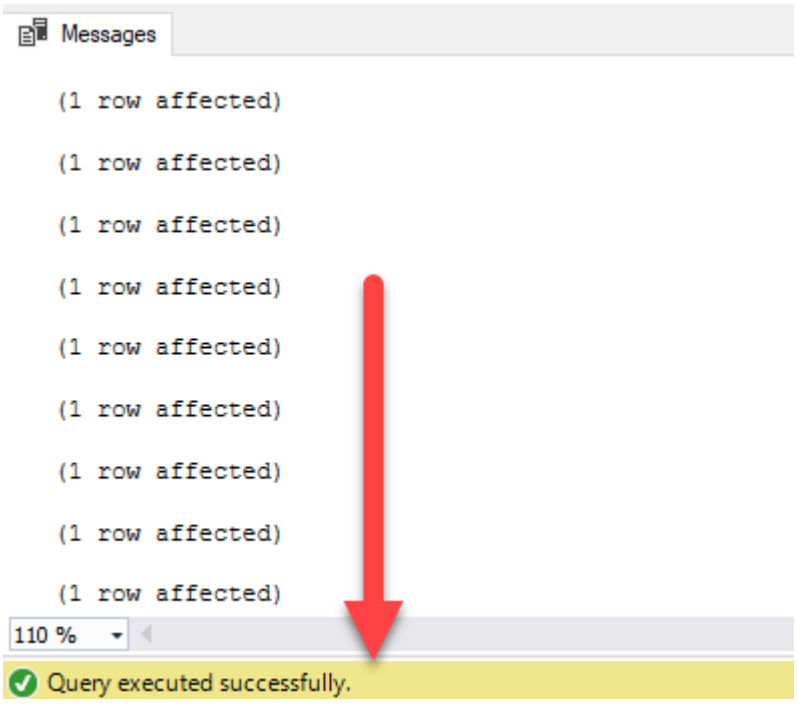
Click the **Execute** button to execute the SQL script



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



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



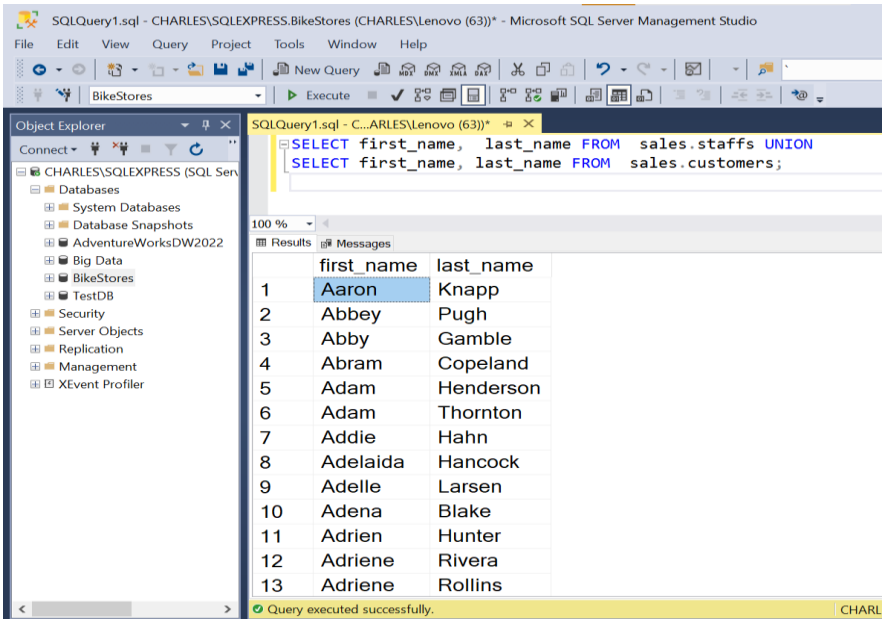
Execute query to display the values from `production.products table.`

QUERY OPERATIONS ON THE DATA WAREHOUSE

UNION OPERATION

SELECT first_name, last_name FROM sales.staffs UNION

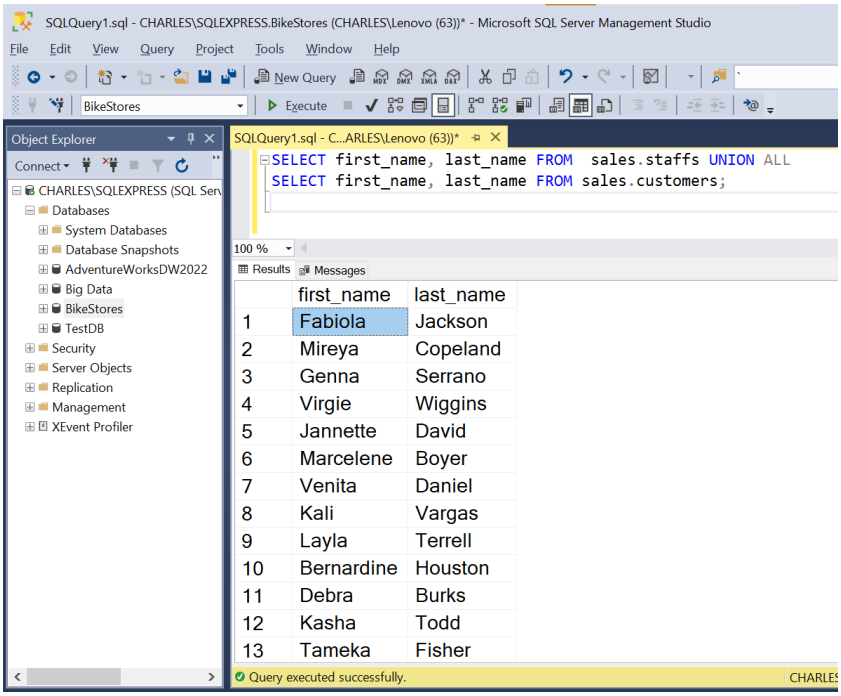
SELECT first_name, last_name FROM sales.customers;



UNION ALL OPERATION

SELECT first_name, last_name FROM sales.staffs UNION ALL

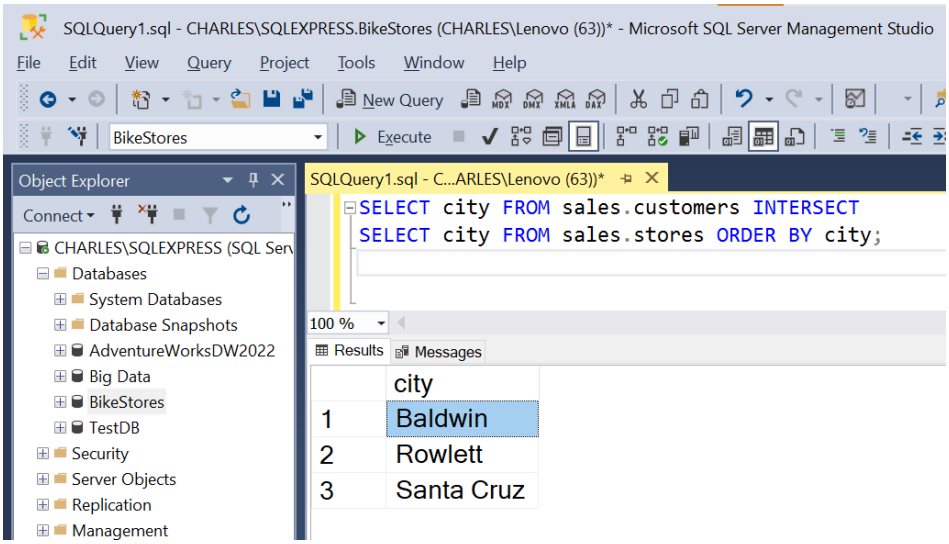
SELECT first_name, last_name FROM sales.customers;



INTERSECT OPERATION

SELECT city FROM sales.customers INTERSECT

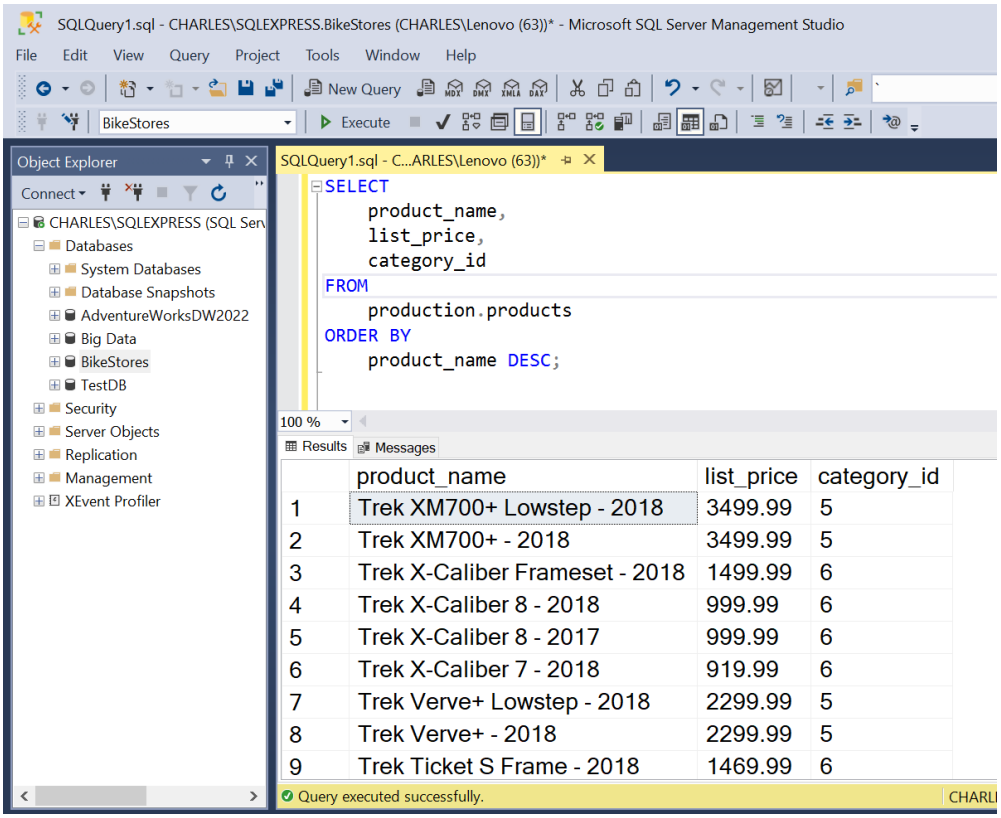
SELECT city FROM sales.stores ORDER BY city;



JOIN OPERATION

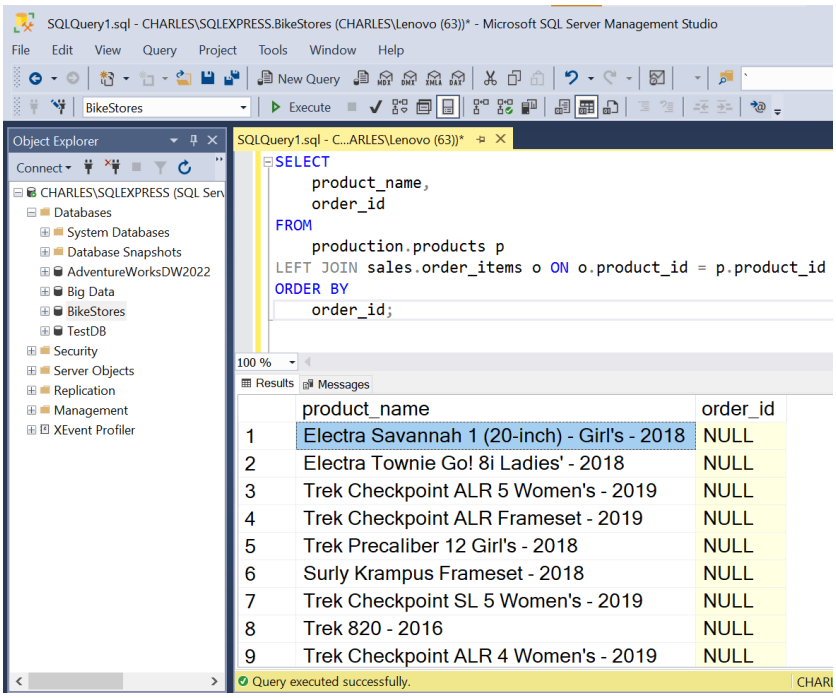
INNER JOIN

```
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.

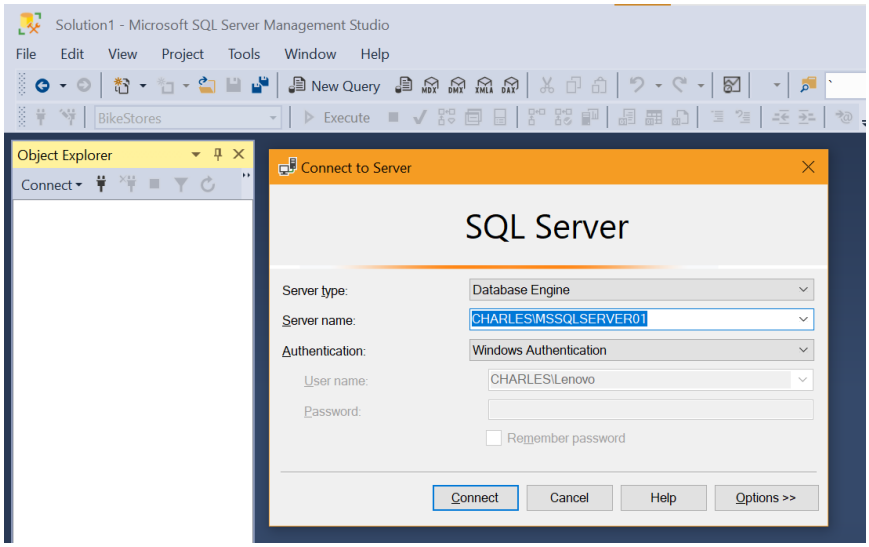
TASK 2b:

AIM

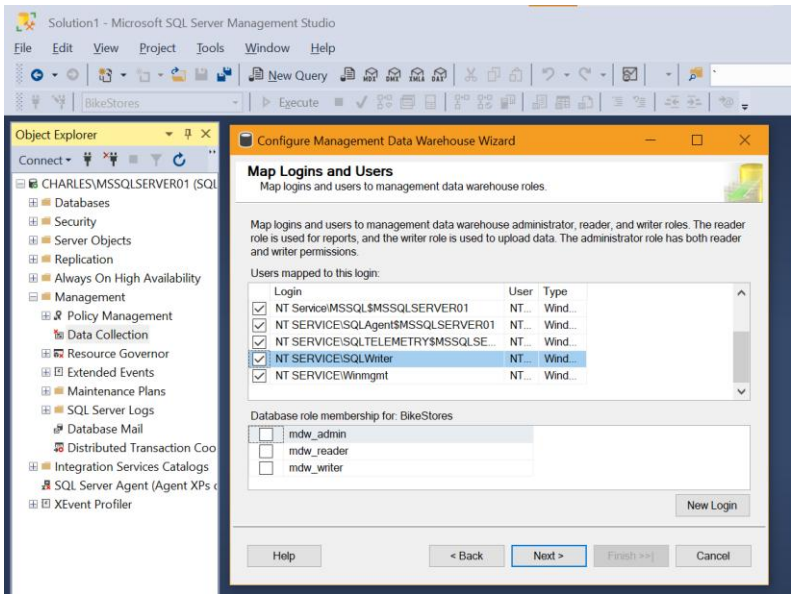
To configure, monitor, and administer a Data warehouse

PROCEDURE

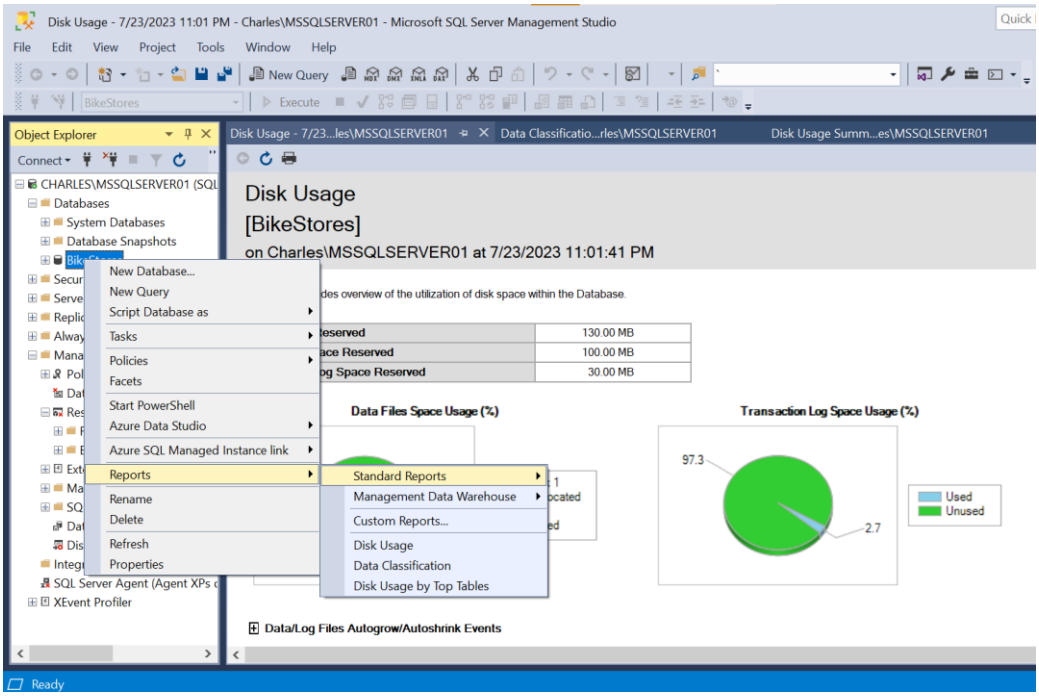
1. Install Microsoft SQL server Management Studio
2. Install MS Sql Server Developer Edition
3. Connect to the SQL Server



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.