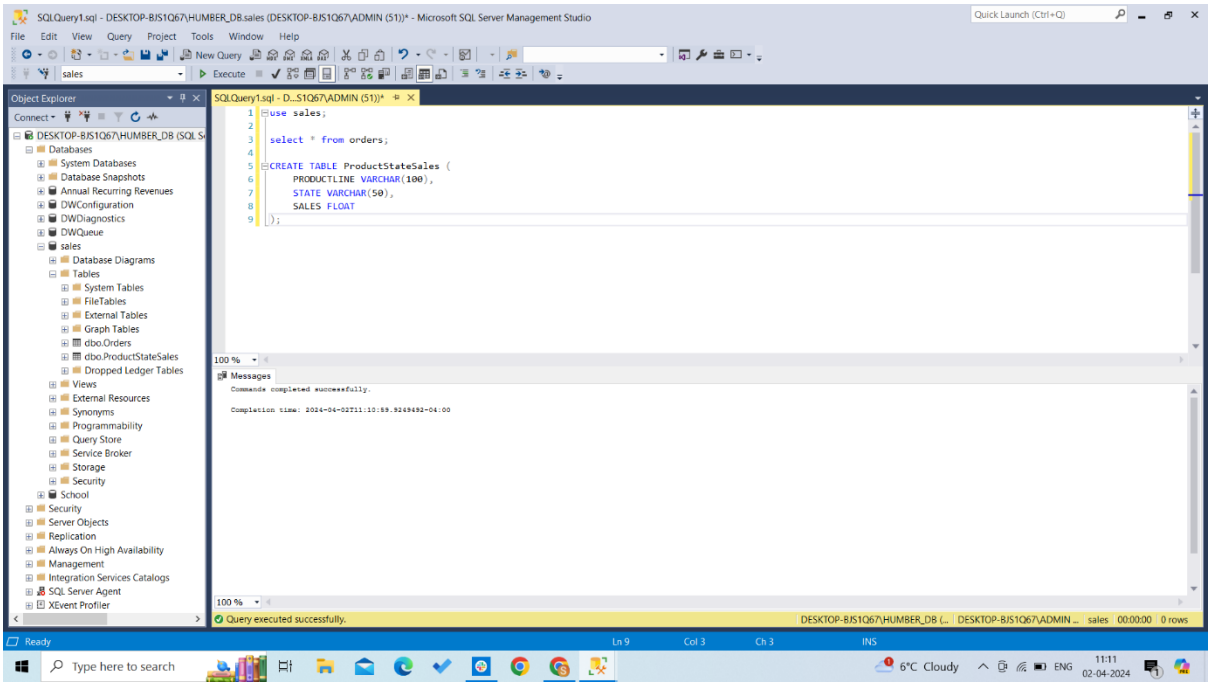
SQL Practical Assignment

Task 1: Table Creation:

Query:

```
CREATE TABLE ProductStateSales (
       PRODUCTLINE VARCHAR(100),
       STATE VARCHAR(50),
       SALES FLOAT
);
```

Output Screenshot:

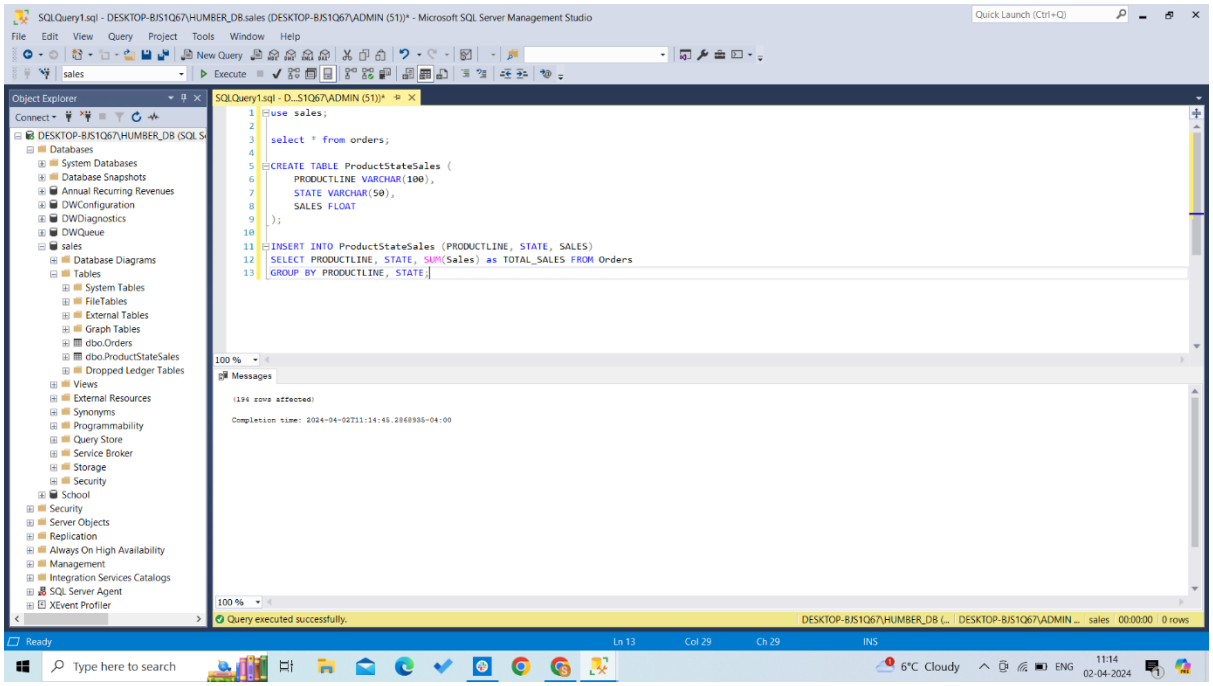


Task 2: Data Aggregation and Insertion:

Query:

```
INSERT INTO ProductStateSales (PRODUCTLINE, STATE, SALES)
SELECT PRODUCTLINE, STATE, SUM(Sales) as TOTAL_SALES FROM Orders
GROUP BY PRODUCTLINE, STATE;
```

Output Screenshot:

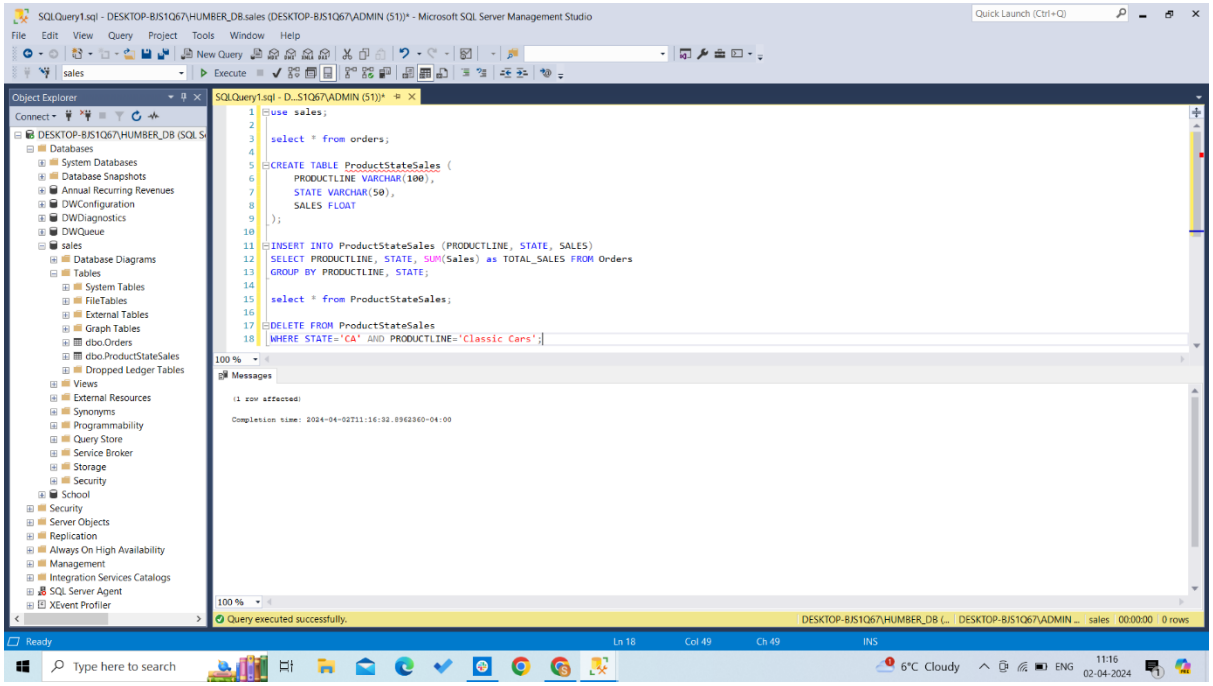


Task 3: Record Deletion:

Query:

```
DELETE FROM ProductStateSales
WHERE STATE='CA' AND PRODUCTLINE='Classic Cars';
```

Output Screenshot:

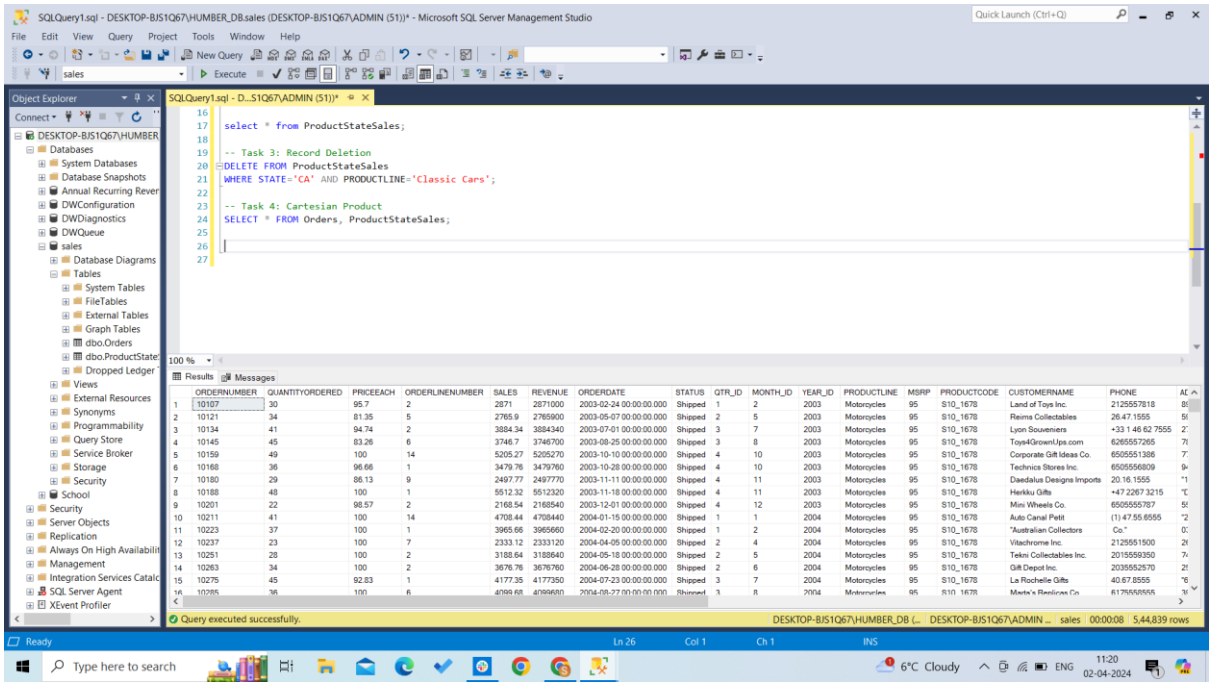


Task 4: Cartesian Product:

Query:

```
SELECT * FROM Orders, ProductStateSales;
```

Output Screenshot:

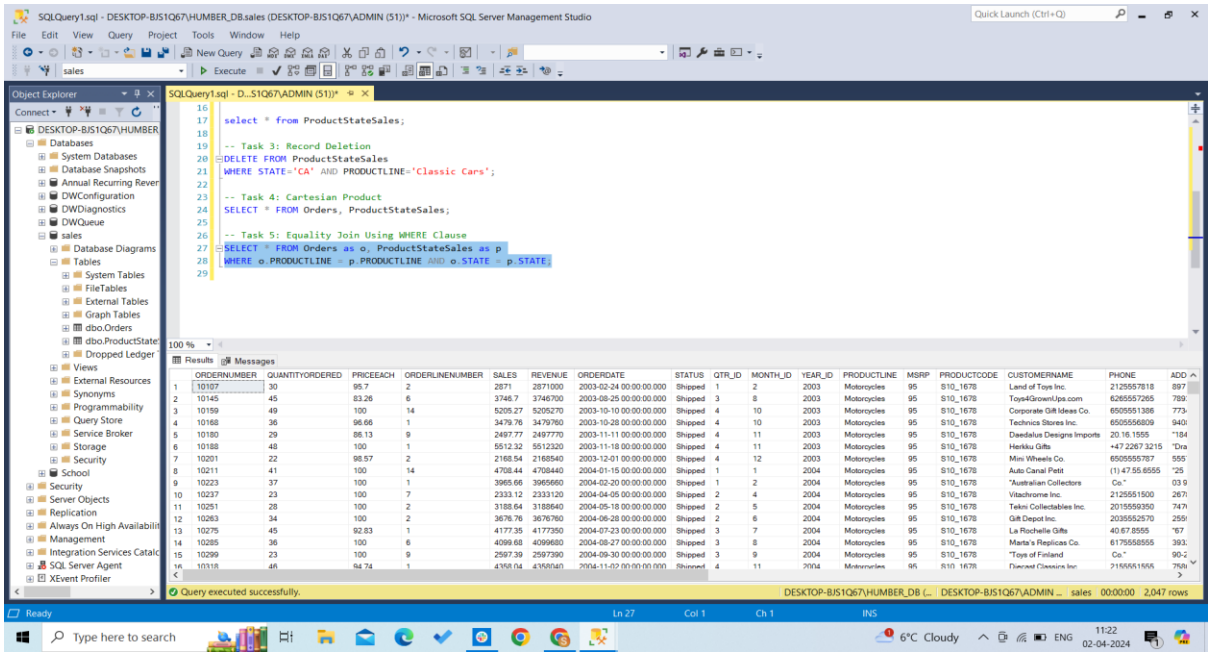


Task 5: Equality Join Using WHERE Clause:

Query:

```
SELECT * FROM Orders as o, ProductStateSales as p
WHERE o.PRODUCTLINE = p.PRODUCTLINE AND o.STATE = p.STATE;
```

Output Screenshot:

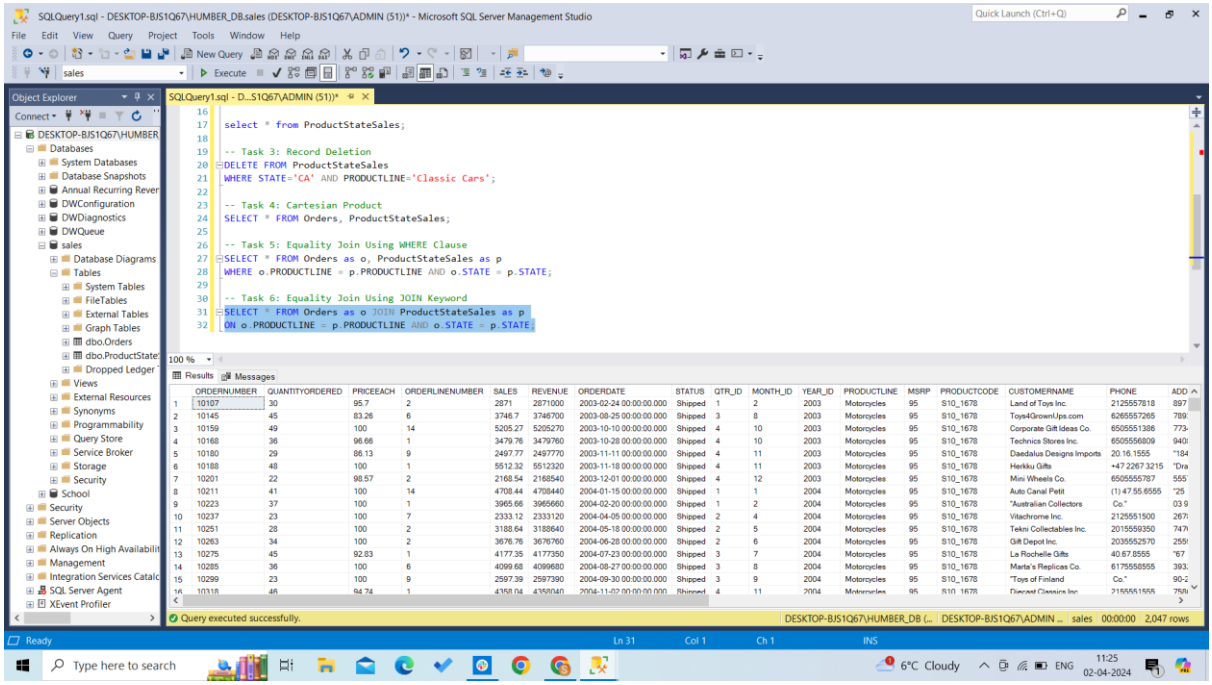


Task 6: Equality Join Using JOIN Keyword:

Query:

```
SELECT * FROM Orders as o JOIN ProductStateSales as p
ON o.PRODUCTLINE = p.PRODUCTLINE AND o.STATE = p.STATE;
```

Output Screenshot:

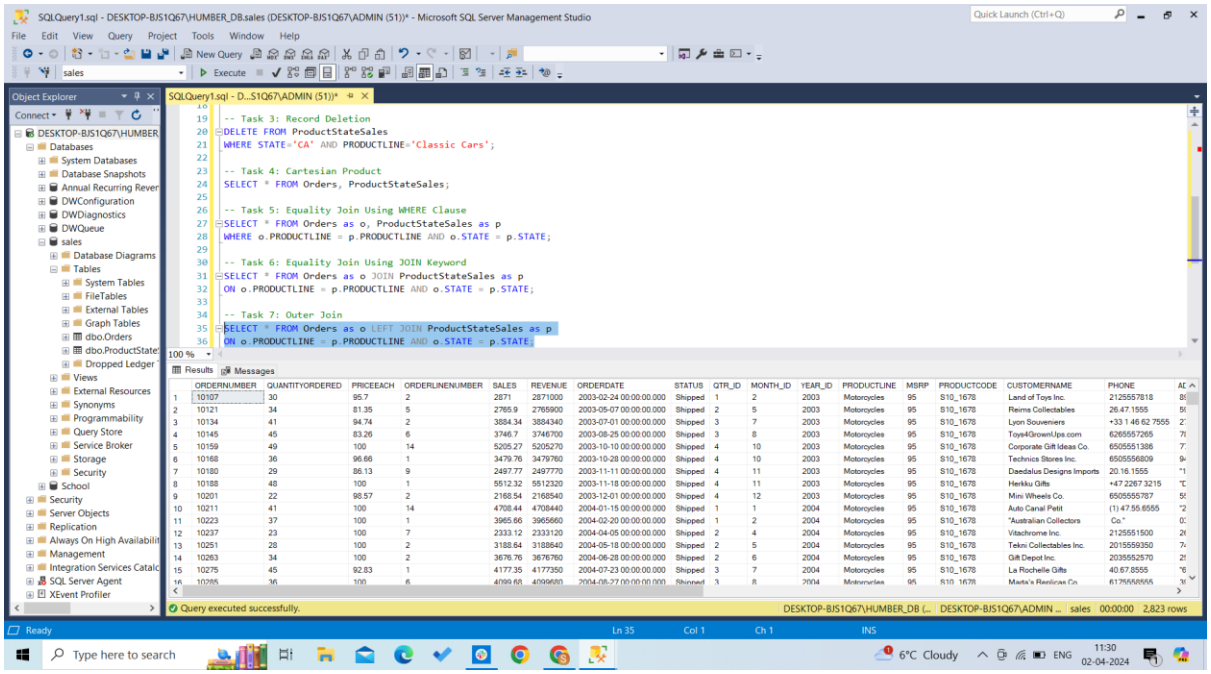


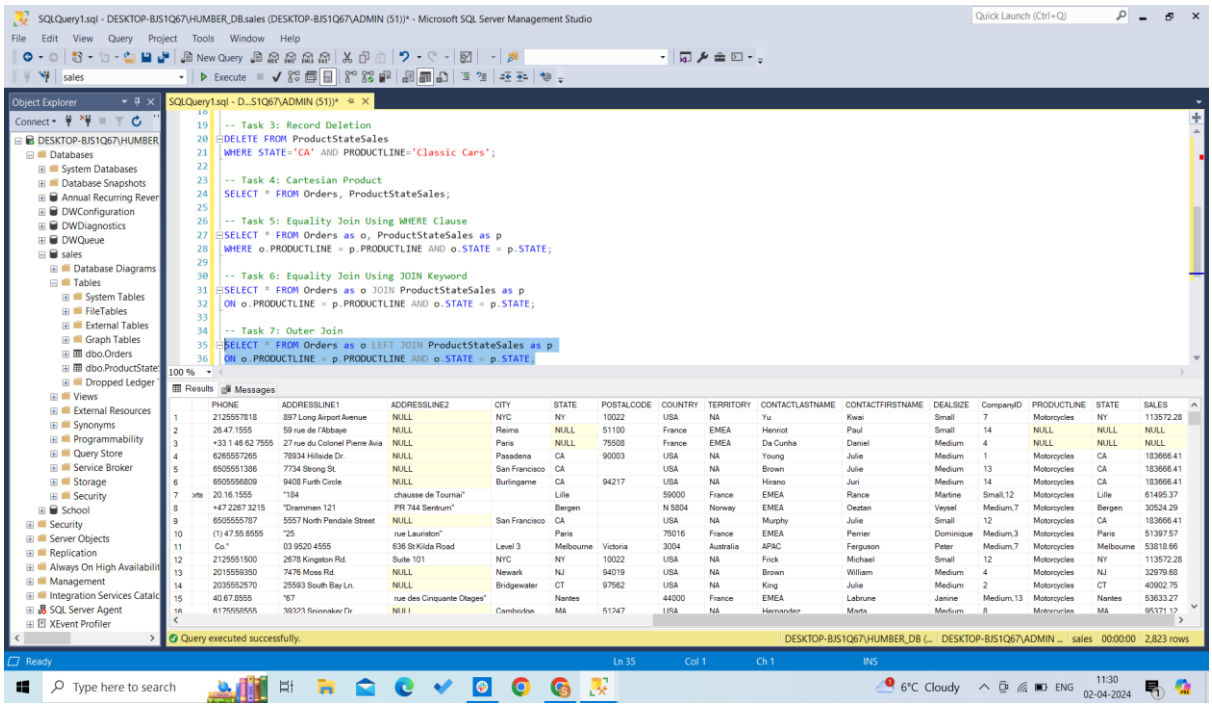
Task 7: Outer Join:

Query:

```
SELECT * FROM Orders as o LEFT JOIN ProductStateSales as p
ON o.PRODUCTLINE = p.PRODUCTLINE AND o.STATE = p.STATE;
```

Output Screenshots:


SQLQuery1.sql - DESKTOP-BJS1Q67\HUMBER_DB.sales (DESKTOP-BJS1Q67\ADMIN (51))* - Microsoft SQL Server Management Studio
-- Task 3: Record Deletion
DELETE FROM ProductStateSales
WHERE STATE='CA' AND PRODUCTLINE='Classic Cars';
-- Task 4: Cartesian Product
SELECT * FROM Orders, ProductStateSales;
-- Task 5: Equality Join Using WHERE Clause
SELECT * FROM Orders as o, ProductStateSales as p
WHERE o.PRODUCTLINE = p.PRODUCTLINE AND o.STATE = p.STATE;
-- Task 6: Equality Join Using JOIN Keyword
SELECT * FROM Orders as o JOIN ProductStateSales as p
ON o.PRODUCTLINE = p.PRODUCTLINE AND o.STATE = p.STATE;
-- Task 7: Outer Join
SELECT * FROM Orders as o LEFT JOIN ProductStateSales as p
ON o.PRODUCTLINE = p.PRODUCTLINE AND o.STATE = p.STATE;
Query executed successfully.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