

LAB MANUAL 3

Home Tasks



Session: 2022 – 2026

Submitted to:

Mr. Nazeef Ul Haq

Submitted by:

Name: Muhammad Mudassir

Registration No: 2022-CS-32

Department of Computer Science
University of Engineering and Technology
Lahore Pakistan

Q1: Write a query to report orders which were delayed shipped.

SQL Query: SELECT RequiredDate, ShippedDate FROM Orders WHERE RequiredDate<ShippedDate

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

```
SELECT RequiredDate, ShippedDate
FROM Orders
WHERE RequiredDate<ShippedDate
```

The query has been executed successfully, and the results are displayed in the Results pane. The results show 35 rows of data, with columns for RequiredDate and ShippedDate. The status bar at the bottom indicates that the query was executed successfully and returned 35 rows.

RequiredDate	ShippedDate
1996-08-21 00:00:00.000	1996-08-23 00:00:00.000
1996-08-29 00:00:00.000	1996-08-30 00:00:00.000
1996-09-11 00:00:00.000	1996-09-12 00:00:00.000
1996-10-08 00:00:00.000	1996-10-09 00:00:00.000
1996-10-17 00:00:00.000	1996-10-23 00:00:00.000
1996-10-17 00:00:00.000	1996-10-18 00:00:00.000
1997-01-09 00:00:00.000	1997-01-16 00:00:00.000
1997-02-06 00:00:00.000	1997-02-24 00:00:00.000
1997-02-24 00:00:00.000	1997-03-03 00:00:00.000
1997-03-03 00:00:00.000	1997-03-04 00:00:00.000
1997-03-05 00:00:00.000	1997-03-12 00:00:00.000
1997-04-21 00:00:00.000	1997-04-25 00:00:00.000
1997-05-07 00:00:00.000	1997-05-23 00:00:00.000
1997-05-29 00:00:00.000	1997-05-30 00:00:00.000
1997-06-19 00:00:00.000	1997-06-26 00:00:00.000
1997-07-22 00:00:00.000	1997-07-25 00:00:00.000
1997-08-06 00:00:00.000	1997-08-13 00:00:00.000
1997-08-08 00:00:00.000	1997-08-12 00:00:00.000
1997-10-06 00:00:00.000	1997-10-15 00:00:00.000
1997-09-24 00:00:00.000	1997-10-03 00:00:00.000
1997-10-28 00:00:00.000	1997-10-30 00:00:00.000

Q2: Our employees belong to how many countries. List the names.

SQL Query: SELECT Distinct EmployeeID, Country FROM Employees

The screenshot shows the Microsoft SQL Server Management Studio interface. The query editor contains the following SQL query:

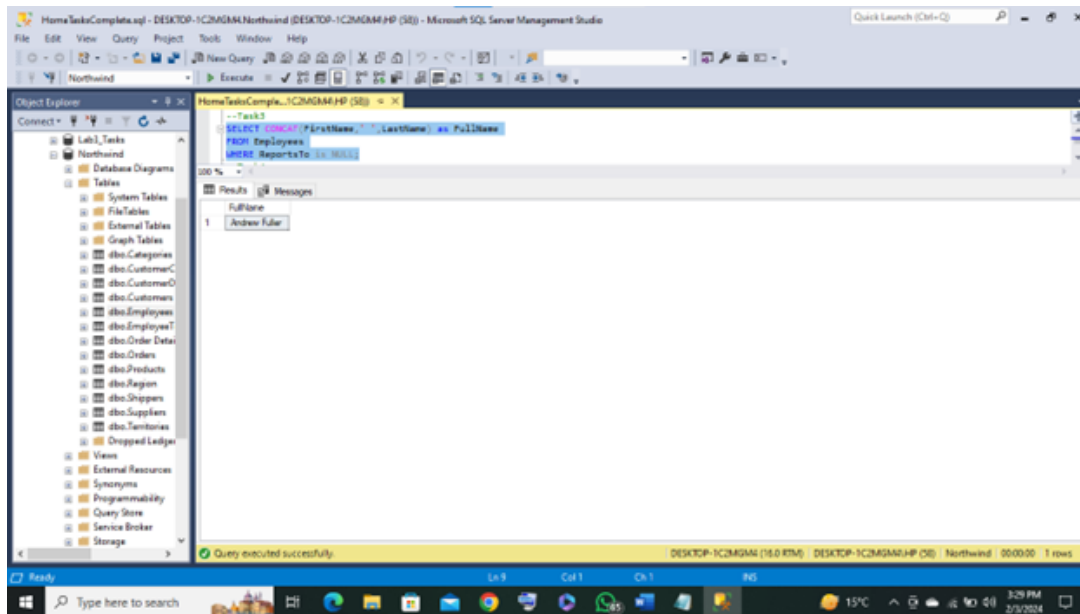
```
SELECT Distinct EmployeeID, Country
FROM Employees
```

The query has been executed successfully, and the results are displayed in the Results pane. The results show 8 rows of data, with columns for EmployeeID and Country. The status bar at the bottom indicates that the query was executed successfully and returned 8 rows.

EmployeeID	Country
1	USA
2	USA
3	USA
4	USA
5	UK
6	UK
7	UK
8	USA
9	UK

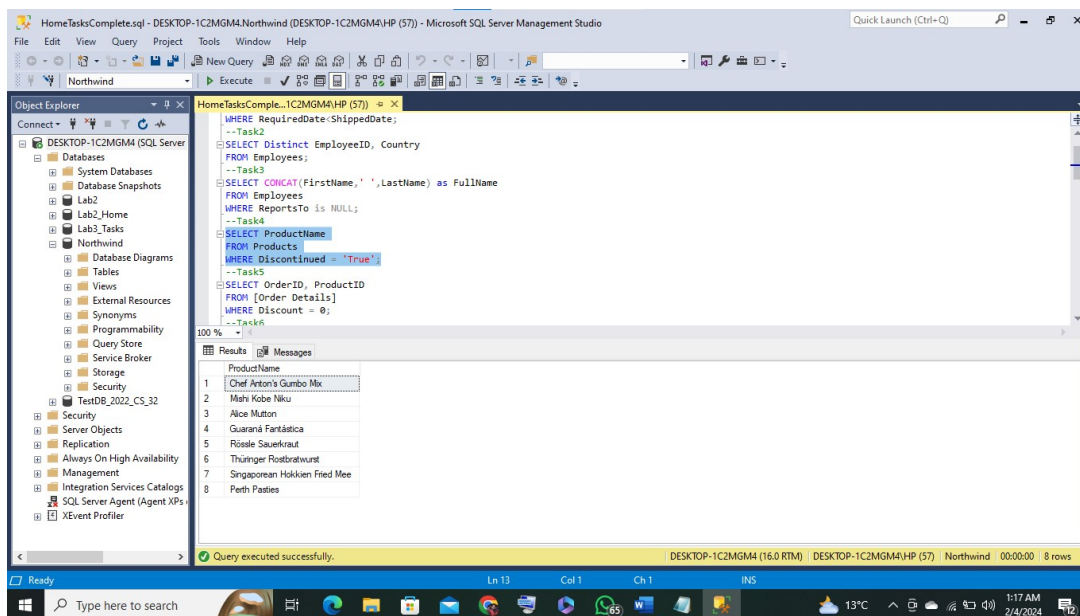
Q3: Is there any employee who is not accountable?

SQL Query: `SELECT CONCAT(FirstName, ' ', LastName) as FullName FROM Employees WHERE ReportsTo is NULL`



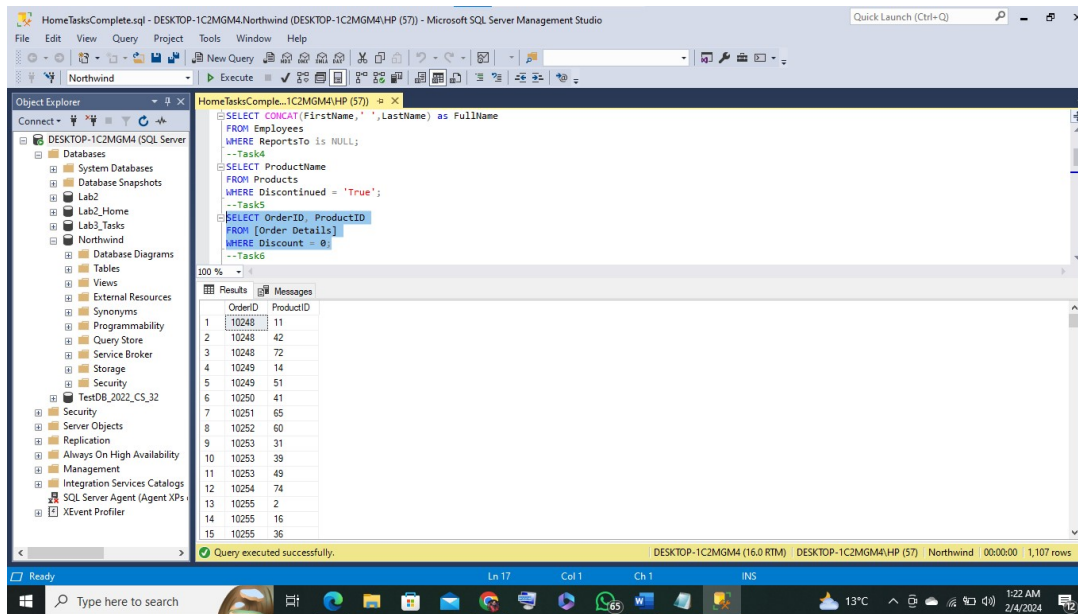
Q4: List the names of products which have been discontinued

SQL Query: `SELECT ProductName FROM Products WHERE Discontinued = 'True'`



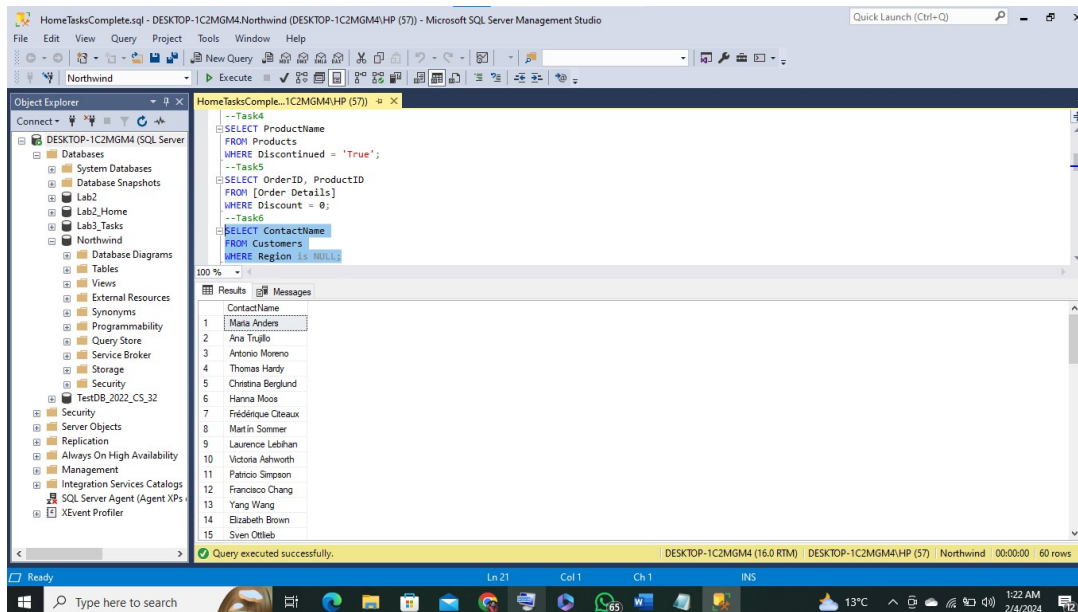
Q5: List the IDs the orders on which discount was not provided.

SQL Query: SELECT OrderID, ProductID FROM [Order Details] WHERE Discount = 0

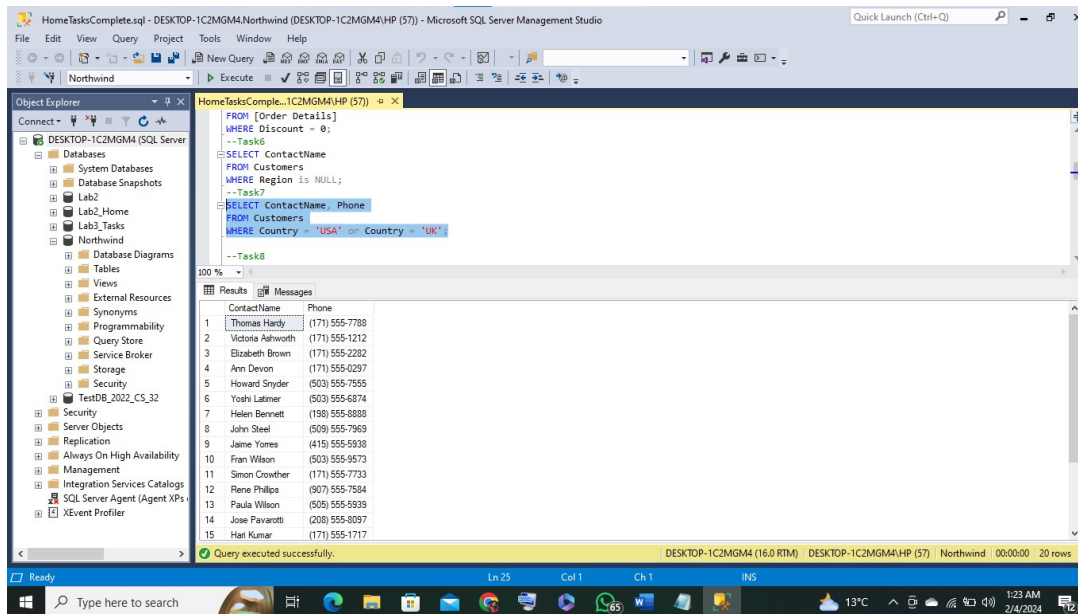


Q6: Enlist the names of customers who have not specified their region.

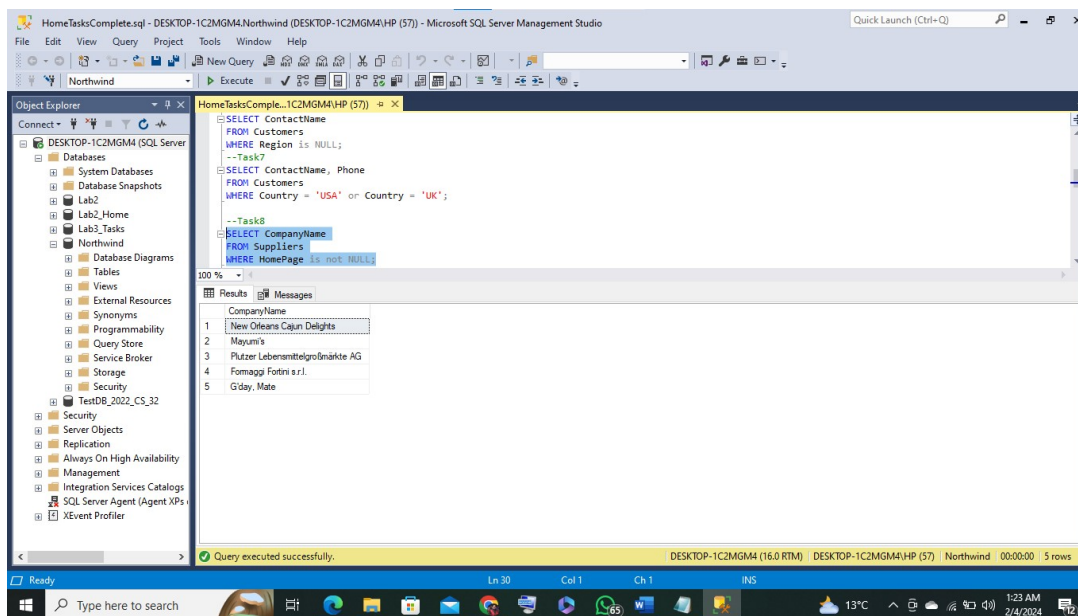
SQL Query: SELECT ContactName FROM Customers WHERE Region is NULL



Q7: Enlist the names of customers along with contact number who either belongs to UK or USA.
SQL Query: `SELECT ContactName, Phone FROM Customers WHERE Country = 'USA' or Country = 'UK'`

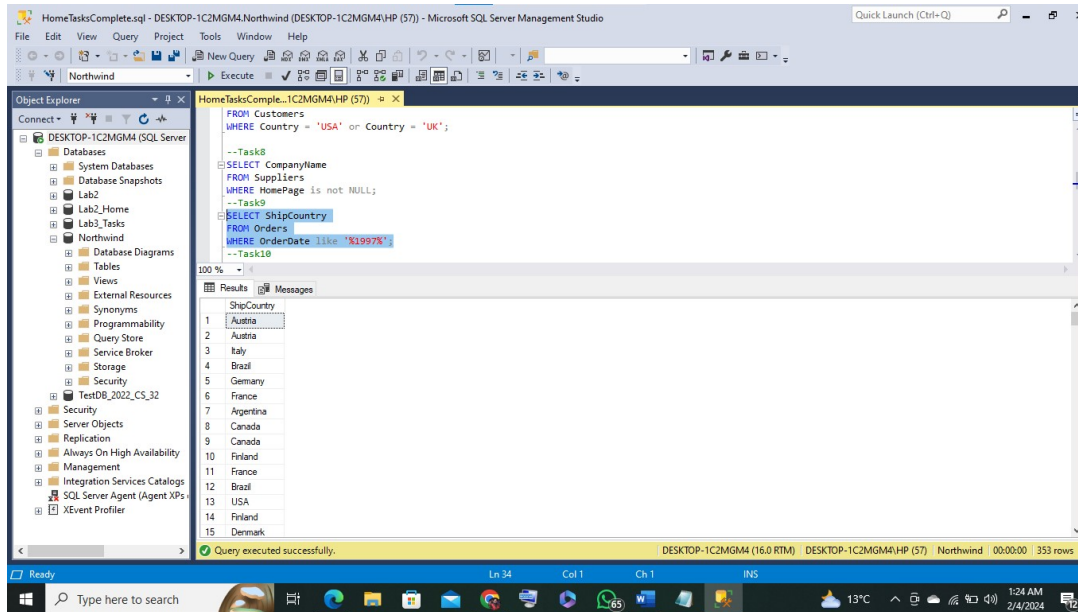


Q8: Report the names of companies who have provided their web page.
SQL Query: `SELECT CompanyName FROM Suppliers WHERE HomePage is not NULL`



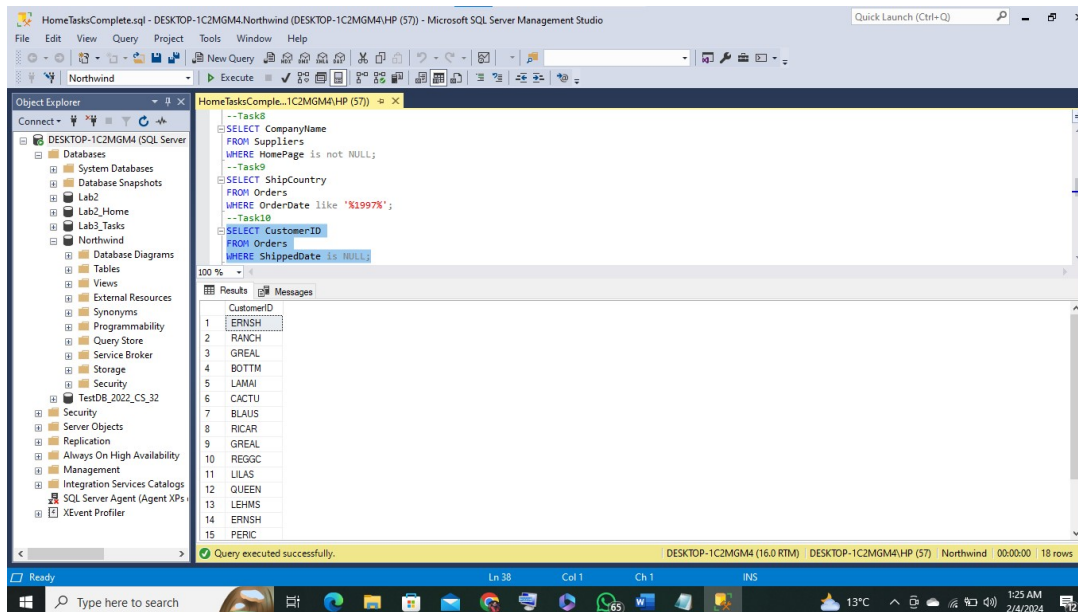
Q9: In which countries, products were sold in year 1997.

SQL Query: SELECT ShipCountry FROM Orders WHERE OrderDate like '1997%'

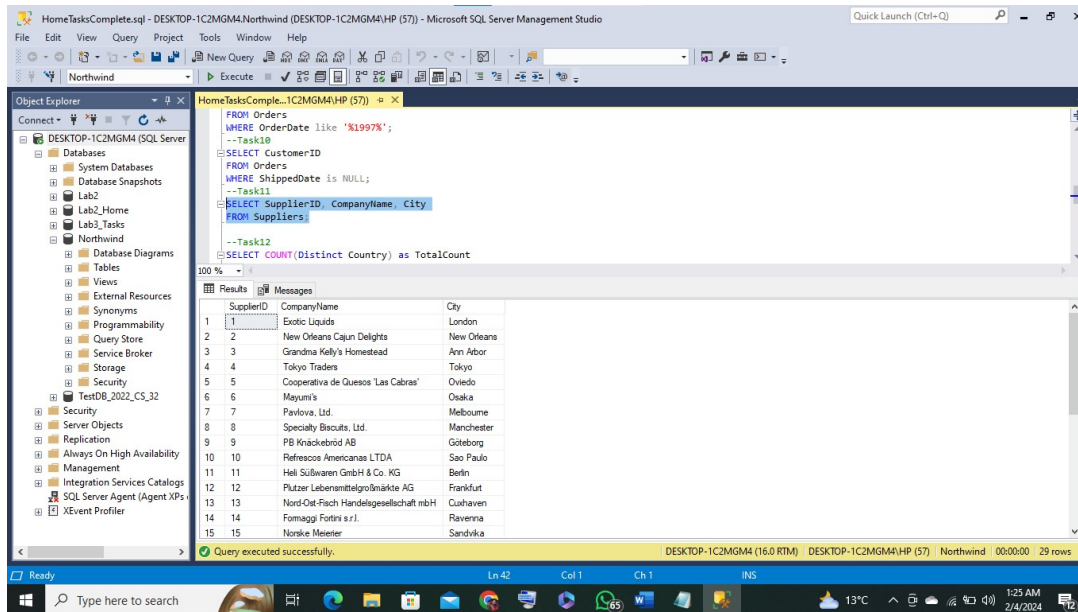


Q10: List the ids of customers whose orders were never shipped.

SQL Query: SELECT CustomerID FROM Orders WHERE ShippedDate is NULL

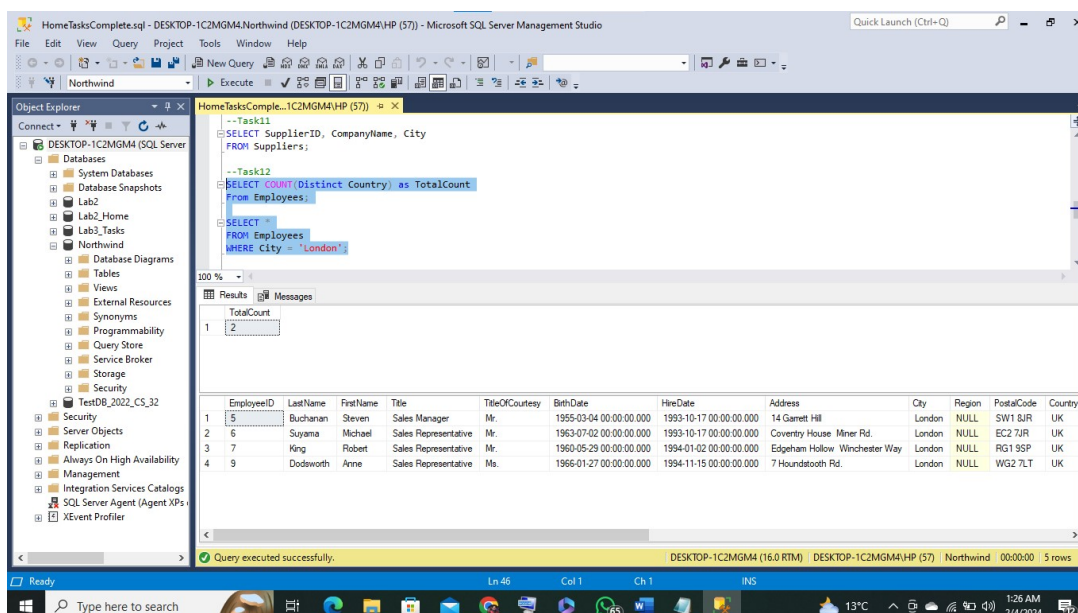


Q11: Write a query to report suppliers with their id, company name and city.
 SQL Query: SELECT SupplierID, CompanyName, City FROM Suppliers



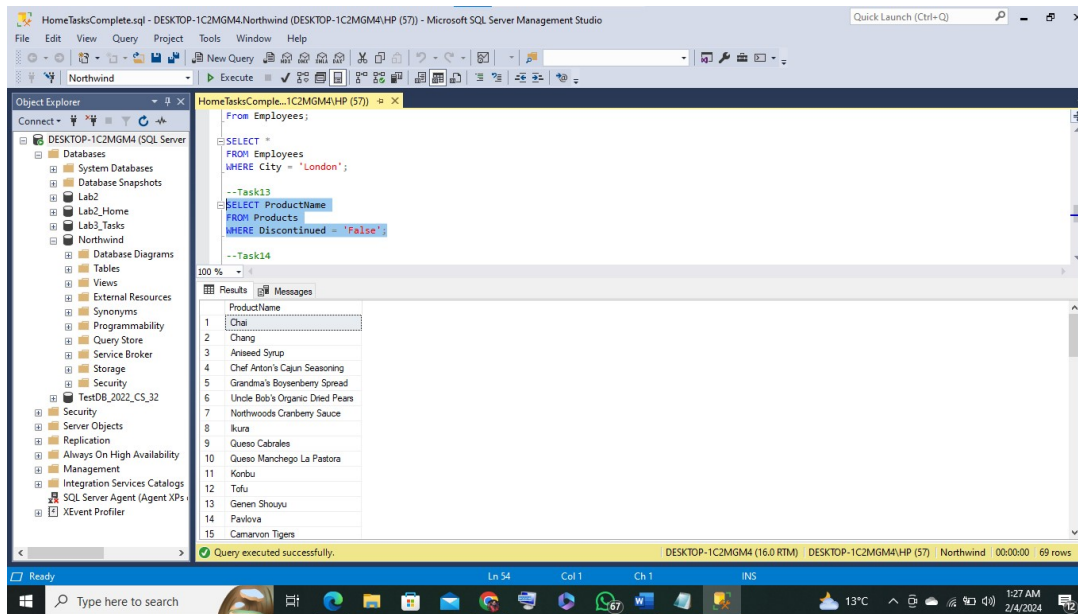
Q12: Our employees belong to how many countries. List them who are used to live in London.
 SQL Query: SELECT COUNT(DISTINCT Country) as TotalCount From Employees

SELECT * FROM Employees WHERE City = 'London'



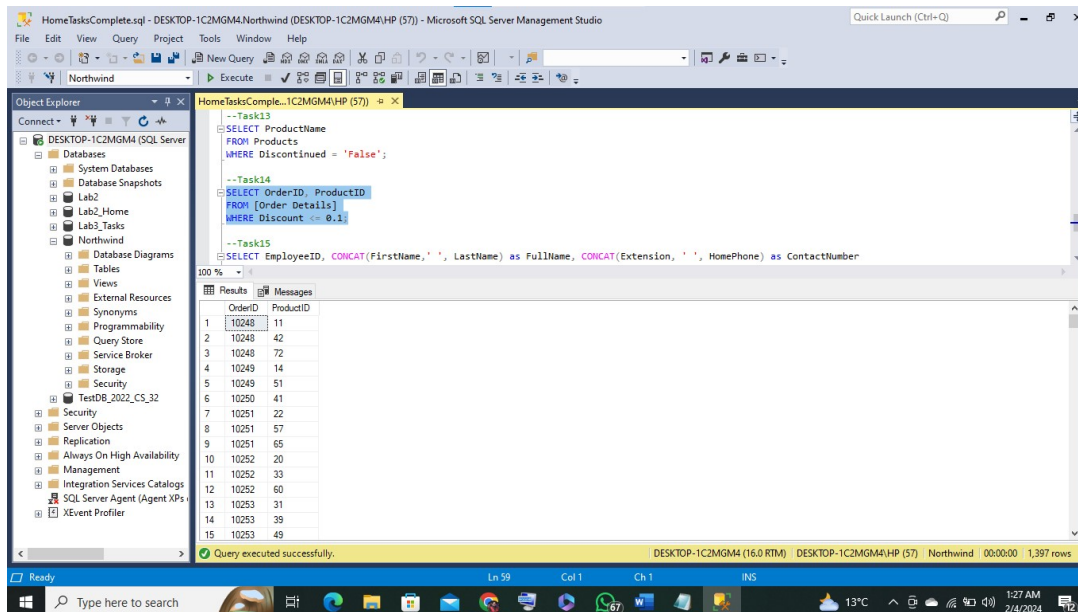
Q13: List the names of products which have not been discontinued.

SQL Query: SELECT ProductName FROM Products WHERE Discontinued = 'False'



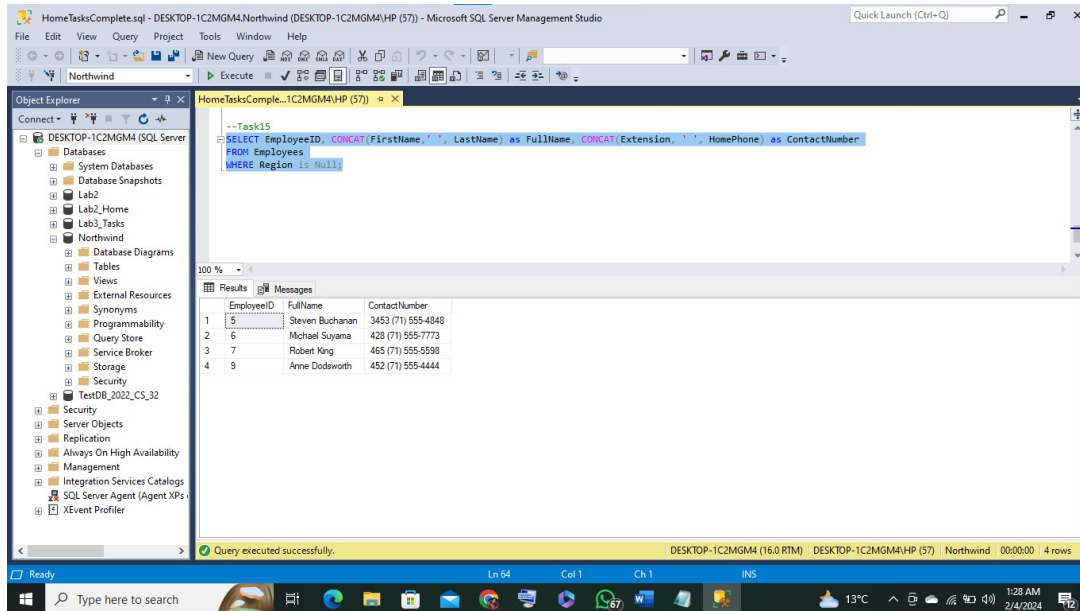
Q14: List the IDs the orders on which discount was 0.1 or less.

SQL Query: SELECT OrderID, ProductID FROM [Order Details] WHERE Discount <= 0.1



Q15: Enlist the IDs, names of employees and their contact number with extensions who have not specified their region.

SQL Query: `SELECT EmployeeID, CONCAT(FirstName, ' ', LastName) as FullName, CONCAT(Extension, ' ', HomePhone) as ContactNumber FROM Employees WHERE Region is Null`



The screenshot displays the Microsoft SQL Server Management Studio interface. The 'Object Explorer' on the left shows the 'Northwind' database selected. The 'Query Editor' in the center contains the following SQL query:

```
--Task15
SELECT EmployeeID, CONCAT(FirstName, ' ', LastName) as FullName, CONCAT(Extension, ' ', HomePhone) as ContactNumber
FROM Employees
WHERE Region is Null
```

The 'Results' pane at the bottom shows the output of the query, which consists of 4 rows. The data is as follows:

EmployeeID	FullName	ContactNumber
5	Steven Buchanan	3453 (71) 555-4948
6	Michael Suyama	428 (71) 555-7773
7	Robert King	465 (71) 555-5598
9	Anne Dodsworth	452 (71) 555-4444

The status bar at the bottom indicates that the query was executed successfully.