



**SUPERVISED BY:**

Prof. Nazeef Ul Haq

**SUBMITTED BY:**

Waleed Ahmed 2022-CS-41

**SUBJECT:**

Lab 03 Hometask

**SECTION:**

A

## 1. Write a query to report orders which were delayed shipped.

The screenshot shows the Microsoft SQL Server Enterprise interface. The query editor contains the following SQL code:

```
/* 1. Displaying orders which were delayed shipping. */  
SELECT * FROM Orders WHERE RequiredDate < ShippedDate;
```

The Results pane displays a table with 18 rows of data. The columns are: OrderID, CustomerID, EmployeeID, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipName, ShipAddress, ShipCity, ShipRegion, ShipPostalCode, and ShipCountry. The data shows various orders from different customers, with some orders being delayed (RequiredDate < ShippedDate).

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity	ShipRegion	ShipPostalCode	ShipCountry
10264	FOLKO	6	1996-07-24 00:00:00.000	1996-08-21 00:00:00.000	1996-08-23 00:00:00.000	3	3.67	Folk och fä HB	Åkergetan 24	Bräcke	NULL	S-844 67	Sweden
10271	SPLIR	6	1996-08-01 00:00:00.000	1996-08-29 00:00:00.000	1996-08-30 00:00:00.000	2	4.54	Spill Rät Beer & Ale	P.O. Box 555	Lander	WY	82520	USA
10280	BERGS	2	1996-08-14 00:00:00.000	1996-09-11 00:00:00.000	1996-09-12 00:00:00.000	1	8.98	Berglunds snabbköp	Bergsjövägen 8	Luleå	NULL	S-958 22	Sweden
10302	SUPRD	4	1996-09-10 00:00:00.000	1996-10-08 00:00:00.000	1996-10-09 00:00:00.000	2	6.27	Duplens delicat	Boulevard Tirou, 255	Charleroi	NULL	S-6000	Belgium
10309	HUNGO	3	1996-09-19 00:00:00.000	1996-10-17 00:00:00.000	1996-10-23 00:00:00.000	1	47.30	Hungry Owl All-Night Grocers	8 Johnston Road	Cork	Co. Cork	NULL	Ireland
10320	WARTH	5	1996-10-03 00:00:00.000	1996-10-17 00:00:00.000	1996-10-18 00:00:00.000	3	34.57	Wartian Herkku	Torikatu 38	Oulu	NULL	90110	Finland
10380	HUNGO	8	1996-12-12 00:00:00.000	1997-01-09 00:00:00.000	1997-01-16 00:00:00.000	3	35.03	Hungry Owl All-Night Grocers	8 Johnston Road	Cork	Co. Cork	NULL	Ireland
10423	GOURL	6	1997-01-23 00:00:00.000	1997-02-06 00:00:00.000	1997-02-24 00:00:00.000	3	24.50	Gourmet Lanchonettes	Av. Brasil, 442	Campinas	SP	04876-788	Brazil
10427	POCO	4	1997-01-27 00:00:00.000	1997-02-24 00:00:00.000	1997-03-03 00:00:00.000	2	31.29	Piccolo und mehr	Genslerweg 14	Salzburg	NULL	5020	Austria
10433	PRIN	3	1997-02-03 00:00:00.000	1997-03-03 00:00:00.000	1997-03-04 00:00:00.000	3	73.83	Princesa Isabel Vinhos	Estrada da saide n. 58	Lisboa	NULL	1756	Portugal
10431	QUICK	4	1997-02-19 00:00:00.000	1997-03-09 00:00:00.000	1997-03-12 00:00:00.000	3	189.09	QUICK-Stop	Taucherstraße 10	Cunewalde	NULL	01307	Germany
10483	WHITC	7	1997-03-24 00:00:00.000	1997-04-21 00:00:00.000	1997-04-25 00:00:00.000	2	15.28	White Clover Markets	1029 - 12th Ave. S.	Seattle	WA	98124	USA
10515	QUICK	2	1997-04-23 00:00:00.000	1997-05-07 00:00:00.000	1997-05-23 00:00:00.000	1	204.47	QUICK-Stop	Taucherstraße 10	Cunewalde	NULL	01307	Germany
10523	SEVES	7	1997-05-01 00:00:00.000	1997-05-29 00:00:00.000	1997-05-30 00:00:00.000	2	77.83	Seven Seas Imports	90 Wadhurst Rd.	London	NULL	OX15 4NB	UK
10545	LAIYK	8	1997-05-22 00:00:00.000	1997-06-19 00:00:00.000	1997-06-26 00:00:00.000	2	11.92	Lazy K Kountry Store	12 Orchestra Terrace	Walla Walla	WA	99362	USA
10576	BSSEV	4	1997-06-24 00:00:00.000	1997-07-22 00:00:00.000	1997-07-25 00:00:00.000	3	29.60	Eiv's Beverages	Fauntleroy Circus	London	NULL	EC2 9AT	UK
10593	LEHMS	7	1997-07-09 00:00:00.000	1997-08-06 00:00:00.000	1997-08-13 00:00:00.000	2	174.20	Lehmanns Marktstand	Magazinweg 7	Frankfurt a.M.	NULL	60528	Germany
10596	WHITC	8	1997-07-11 00:00:00.000	1997-08-08 00:00:00.000	1997-08-12 00:00:00.000	1	16.34	White Clover Markets	1029 - 12th Ave. S.	Seattle	WA	98124	USA

## 2. Our employees belong to how many countries. List the names.

The screenshot shows the Microsoft SQL Server Enterprise interface. The query editor contains the following SQL code:

```
/* 2. Displaying name of countries from where employees are from. */  
SELECT DISTINCT Country FROM Employees;
```

The Results pane displays a table with 2 rows of data. The columns are: Country. The data shows that employees belong to two countries: UK and USA.

Country
UK
USA

SQLQuery1.sql - LP-Gangster's Paradise (70)\* - Microsoft SQL Server Management Studio

Quick Launch (Ctrl+Q)

File Edit View Query Project Tools Window Help

Northwind

Execute

SQLQuery1.sql - LP-Gangster's Paradise (70)\* - SQLScript.sql - LP-Gangster's Paradise (66)

```
/* 3. Displaying employees who are not accountable. */
SELECT * FROM Employees WHERE ReportsTo IS NULL;
```

121 %

Results Messages

	EmployeeID	LastName	FirstName	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region	PostalCode	Country	HomePhone	Extension	Photo	Notes
1	2	Fuller	Andrew	Vice President, Sales	Dr.	1992-02-19 00:00:00.000	1992-02-19 00:00:00.000	968 W. Capital Way	Tacoma	WA	98401	USA	(206) 955-9482	3457	6x151C2F00020000000000000000000001400210DFFFFFFF4269746...	Andrew received his BTS

Query executed successfully.

LP-Gangster (16.0 RTM) LP-GANGSTER/Gangster's... Northwind 00:00:00 1 rows

The screenshot shows the Microsoft SQL Server Enterprise Edition interface. The top menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The top toolbar contains icons for New Query, Open, Save, Print, and other standard database operations. The main window displays a SQL query in the 'SQLQuery1.sql' file:

```
/* 4. Displaying product names that have been discontinued. */
SELECT ProductName FROM Products WHERE Discontinued = 1;
```

The query has been executed successfully, as indicated by the status bar at the bottom: 'Query executed successfully.' The results are displayed in the 'Results' pane, showing 8 rows of discontinued products:

ProductID	ProductName
1	Chai Antonio Gamba Mix
2	Mah Kobé Niku
3	Alice Mutton
4	Gavarna Fantastico
5	Rosine Saumknecht
6	Thünninger Rostbratunest
7	Singaporean Hokkien Fried Mee
8	Perth Pasties

The status bar at the bottom indicates the current database is 'LP-GANGSTER', the server is 'Northwind', and the query was executed successfully.

5. List the IDs the orders on which discount was not provided.

The screenshot shows the Microsoft SQL Server Enterprise interface. The query editor contains the following SQL code:

```
/* 5. Displaying order ID's on which discount was not provided. */
SELECT OrderID FROM [Order Details] WHERE Discount = 0;
```

The Results pane displays the following data:

OrderID
10248
10248
10248
10249
10249
10250
10251
10252
10253
10253
10254
10255
10255
10255
10256
10256

The status bar at the bottom indicates "Query executed successfully." and "1,107 rows".

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

The screenshot shows the Microsoft SQL Server Enterprise interface. The query editor contains the following SQL code:

```
/* 6. Displaying name of customers who haven't specified their region. */
SELECT ContactName FROM Customers WHERE Region IS NULL;
```

The Results pane displays the following data:

ContactName
Maria Anders
Ana Trujillo
Antonio Moreno
Thomas Hardy
Christina Berglund
Hanna Moos
Friedrick Clesaux
Martin Sommer
Laurence Leblan
Victoria Ashworth
Patricia Simpson
Francisco Chang
Yang Wang
Elizabeth Brown
Sven Ottele
Janine Labrun
Ann Devon
Roland Mendel

The status bar at the bottom indicates "Query executed successfully." and "60 rows".

7. Enlist the names of customers along with contact number who either belongs to UK or USA.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The query editor displays the following SQL query:

```
/* 7. Displaying name & contact of customers who either belong from UK or USA. */
SELECT CompanyName,ContactName FROM Customers WHERE Country = 'UK' OR Country = 'USA';
```

The Results pane shows the following data:

CompanyName	ContactName
1 Around the Horn	Thomas Hardy
2 B's Beverages	Victoria Ashworth
3 Consolidated Holdings	Elizabeth Brown
4 Eastern Connection	Avin Droron
5 Great Lakes Food Market	Howard Snyder
6 Hungry Coyote Import Store	Yoshi Latimer
7 Island Trading	Helen Bennett
8 Lazy K Country Store	John Steel
9 Let's Stop N' Shop	Jaime Yorres
10 Lonesome Pine Restaurant	Fran Wilson
11 North/South	Simon Crowther
12 Old World Delicatessen	Renee Phillips
13 Rattlesnake Canyon Grocery	Paula Wilson
14 Save-a-lot Markets	Jose Pavarotti
15 Seven Seas Imports	Hari Kumar
16 Split Rail Beer & Ale	Art Braunschweiger
17 The Big Cheese	Liz Nixon
18 The Cracker Box	Liu Wong

The status bar at the bottom indicates "Query executed successfully." and "20 rows".

8. Report the names of companies who have provided their web page.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The query editor displays the following SQL query:

```
/* 8. Displaying the name of companies who have provided their web page. */
SELECT CompanyName FROM Suppliers WHERE HomePage IS NOT NULL;
```

The Results pane shows the following data:

CompanyName
1 New Orleans Cajun Delights
2 Mayumi's
3 Putzer Lebensmittelgroßmärkte AG
4 Formaggio Fortini s.r.l.
5 G'day, Mate

The status bar at the bottom indicates "Query executed successfully." and "5 rows".

## 9. In which countries, products were sold in year 1997.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The query editor displays the following SQL query:

```
/* 9. Displaying the name of countries that sold products in 1997. */  
SELECT DISTINCT ShipCountry FROM Orders WHERE OrderDate >= '1997-01-01 00:00:00.000' AND OrderDate <= '1997-12-31 00:00:00.000';
```

The Results pane shows the following data:

ShipCountry
Argentina
Austria
Belgium
Brazil
Canada
Denmark
Finland
France
Germany
Ireland
Italy
Mexico
Norway
Poland
Portugal
Spain
Sweden
Switzerland

The status bar at the bottom indicates "Query executed successfully." and "21 rows".

## 10. List the ids of customers whose orders were never shipped.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The query editor displays the following SQL query:

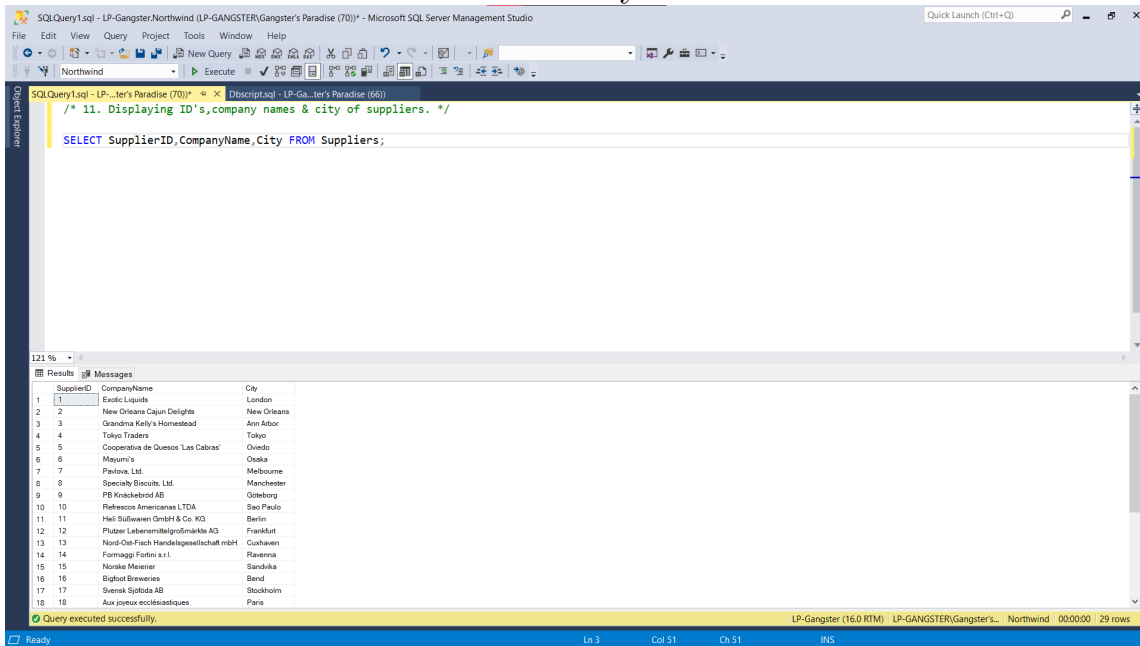
```
/* 10. Displaying the ID's of customers whose orders were never shipped. */  
SELECT CustomerID FROM Orders WHERE ShippedDate IS NULL;
```

The Results pane shows the following data:

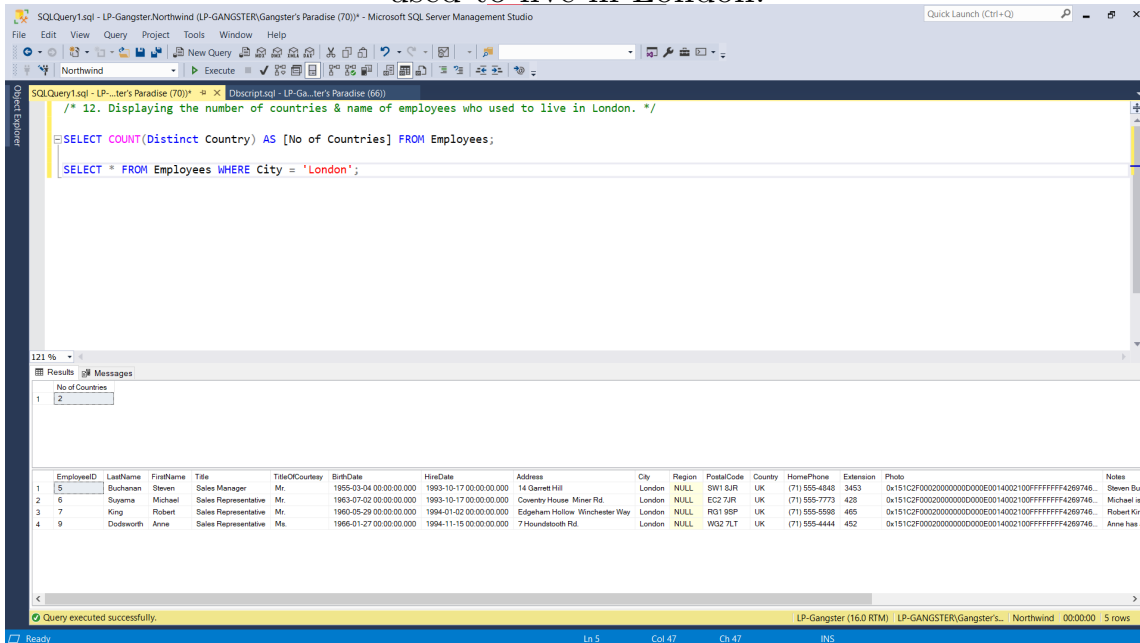
CustomerID
ERNKSH
RANCH
OREAL
BOTTM
LAMAI
CACTU
BLAIS
RICAR
OREAL
REDOG
LILAS
QUEEN
LEHMS
ERNKSH
PETRO
SIMOS
RICSU
BONAP

The status bar at the bottom indicates "Query executed successfully." and "18 rows".

11. Write a query to report suppliers with their id, company name and city.



12. Our employees belong to how many countries. List them who are used to live in London.



13. List the names of products which have not been discontinued.

The screenshot shows the SQL Server Enterprise Manager interface. The query editor displays the following SQL query:

```
/* 13. Displaying the names of products which haven't been discontinued. */
SELECT ProductName FROM Products WHERE Discontinued = 0;
```

The Results pane shows the following data:

ProductID	ProductName
1	Chai
2	Chang
3	Aniseed Syrup
4	Chief Akai's Cajun Seasoning
5	Grandma's Boysenberry Spread
6	Uncle Bob's Organic Dried Pears
7	Northwoods Cranberry Sauce
8	Iluara
9	Queso Cabrales
10	Queso Manchego La Pastora
11	Korbu
12	Tofu
13	Garden of Eatin'
14	Pavlova
15	Carnarvon Tigers
16	Teatime Chocolate Biscuits
17	Sir Rodney's Marmalade
18	Sir Rodney's Scones

The status bar indicates the query was executed successfully, returning 69 rows.

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

The screenshot shows the SQL Server Enterprise Manager interface. The query editor displays the following SQL query:

```
/* 14. Displaying the order ID's on which discount was 0.1 or less. */
SELECT OrderID FROM [Order Details] WHERE Discount <= 0.1;
```

The Results pane shows the following data:

OrderID	
1	10248
2	10248
3	10248
4	10249
5	10249
6	10250
7	10251
8	10251
9	10251
10	10252
11	10252
12	10252
13	10253
14	10253
15	10253
16	10254
17	10255
18	10255

The status bar indicates the query was executed successfully, returning 1,397 rows.



15. Enlist the IDS, names of employees and their contact number with extensions who have not specified their region.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The main window displays a query in the 'Query1.sql' file. The query is as follows:

```
/* 15. Displaying the ID's, names & contact number of employees who have not specified their region. */  
SELECT EmployeeID, FirstName + ' ' + LastName AS Names, HomePhone FROM Employees WHERE Region IS NULL;
```

Below the query editor, the 'Results' pane shows the output of the query. The results are displayed in a table with the following columns: EmployeeID, Names, and HomePhone. The table contains four rows of data:

EmployeeID	Names	HomePhone
5	Steven Buchanan	(71) 555-4848
6	Michael Suyama	(71) 555-7773
7	Robert King	(71) 555-5598
9	Anne Dodsworth	(71) 555-4444

The status bar at the bottom indicates that the query was executed successfully and returned 4 rows.