###### Cairo University

**Faculty of Computers and Information Information Systems Department Database Systems 1**

**Lab 8**

**Exercises using Northwind Database**

1. Change the country for all employees who their phone number starts with (206) into “United States”.

**UPDATE Employees**

**SET Country = 'United States'**

**WHERE HomePhone LIKE '(206)%'**

1. Display the Customer Name (ContactName) and the number of orders ordered by this customer, for customers living in UK. Arrange the result based on the number of orders from the greatest to the lowest.

**SELECT ContactName,COUNT(Orders.OrderID)**

**From Customers,Orders**

**WHERE Customers.CustomerID = Orders.CustomerID**

**AND Customers.Country = 'UK'**

**GROUP BY ContactName**

**ORDER BY COUNT(Orders.OrderID) DESC**

1. Get the total quantity ordered for each displayed product name with unit price higher than 30. Restrict the result for those products having total ordered quantity in the range between 1000 and 1500. Label any un-named column(s) with a meaningful name(s).

**SELECT Products.ProductName , Sum(Quantity) As TotalQuantityOrdered**

**FROM Products, [Order Details]**

**WHERE Products.ProductID = [Order Details].ProductID**

**AND Products.UnitPrice > 30**

**GROUP BY Products.ProductName**

**HAVING Sum (Quantity) BETWEEN 1000 AND 1500**

1. Display the first name, job title and the country of all employees who are living in UK and have the same job title as the employees with first names: Janet or Steven. Sort the result by the first name of the employees in a descending order.

**SELECT FirstName, Title, Country**

**FROM Employees**

**WHERE Country = 'UK'**

**AND Title IN**

 **(SELECT Title**

 **FROM Employees**

 **WHERE FirstName IN ('Janet', 'Steven'))**

**ORDER BY FirstName DESC**

1. Display the first name, job title and the city of all employees not working as Sales Managers and living in the same city as the employee with first name: Michael. Sort the result by the first name of the employees in an ascending order.

**SELECT FirstName ,Title ,City**

**FROM Employees**

**WHERE Title <> 'Sales Manager'**

**AND City =**

 **(SELECT City**

 **FROM Employees**

 **WHERE FirstName = 'Michael')**

**ORDER BY FirstName**

1. Display the customers’ names who are located in the same region.

**SELECT c1.ContactName, c2.ContactName**

**FROM Customers AS c1, Customers AS c2**

**WHERE c1.Region = c2.Region**

**AND c1.ContactName <> c2.ContactName**

1. Create a view called “ViewConfectionsWithUnitPriceLessThan50” which gets the names of all Confections (category name) having unit price less than 50.

**CREATE VIEW VIEWConfectionsWithUnitPriceLessThan50 AS**

**SELECT Products.ProductName**

**FROM Products INNER JOIN Categories**

**ON Products.CategoryID=Categories.CategoryID**

**WHERE Categories.CategoryName = 'Confections'**

**AND UnitPrice <50**