###### Cairo University

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

**Lab 6**

**Consider the Northwind Schema:**

1. Get the names of products and the companies that supply these products.

SELECT ProductName, CompanyName

FROM Products INNER JOIN Suppliers

ON Products.SupplierID = Suppliers.SupplierID;

OR

SELECT ProductName, CompanyName

FROM Products , Suppliers

WHERE Products.SupplierID = Suppliers.SupplierID;

1. Get the names of the customers and the order date of each order placed after 1/1/95 without any duplicates, and order the result descending by order date.

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| SELECT DISTINCT ContactName, OrderDate  FROM Orders INNER JOIN Customers  ON Orders.CustomerID = Customers.CustomerID  WHERE OrderDate > '1/1/95'  ORDER BY OrderDate DESC |
| 3. Get names of all the customers and if they place any orders show their order date.  SELECT ContactName, OrderDate  FROM Orders RIGHT OUTER JOIN Customers  ON Customers.CustomerID = Orders.CustomerID |

OR

SELECT ContactName, OrderDate

FROM Customers LEFT OUTER JOIN Orders

ON Customers.CustomerID = Orders.CustomerID

1. Get all the possibilities of how different suppliers can use different shippers to ship their products displaying suppliers’ names and Shippers’ names.

|  |
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| SELECT Suppliers.CompanyName, Shippers.CompanyName  FROM Suppliers CROSS JOIN Shippers; |

1. Get the customers IDS who didn’t make any order.

SELECT CustomerID

FROM Customers

EXCEPT

SELECT CustomerID

FROM Orders

1. Get all names of suppliers who supply products of category named ‘Beverages’ and products of category named ‘Condiments’.

SELECT Suppliers.CompanyName

FROM Products, Suppliers, Categories

WHERE Suppliers.SupplierID = Products.SupplierID

AND Products.CategoryID =Categories.CategoryID

AND Categories.CategoryName ='Beverages'

INTERSECT

SELECT Suppliers.CompanyName

FROM Products, Suppliers, Categories

WHERE Suppliers.SupplierID = Products.SupplierID

AND Products.CategoryID =Categories.CategoryID

AND Categories.CategoryName ='Condiments'

1. For a mass-mailing purpose, get the list of all names, addresses, cities and postal codes known to the database and remove duplicates from the result if any (these data are stored in the customers and employees tables).

SELECT ContactName AS Name, Address, City, PostalCode

FROM Customers

UNION

SELECT FirstName + ' ' + LastName AS Name, Address, City, PostalCode

FROM Employees

1. Get names of products that are supplied by suppliers in UK or USA and products that are sold to customers in UK or USA and remove duplicates from the result.

SELECT Products.ProductName

FROM Products, Suppliers

WHERE Suppliers. SupplierID = Products.SupplierID

AND Suppliers.Country in ('UK','USA')

UNION

SELECT Products.ProductName

FROM Products, [Order Details], Orders, Customers

WHERE Products.ProductID = [Order Details].ProductID

AND [Order Details].OrderID = Orders.OrderID

AND Orders.CustomerID = Customers.CustomerID

AND (Customers.Country = 'UK' OR Customers.Country = 'USA')