**Sql quiz**

1. Add product name to yesterday’s query

SELECT orders.OrderID,CustomerName,Shippers.ShipperName,Products.ProductName

FROM Orders

JOIN Customers ON Customers.CustomerID = Orders.CustomerId

JOIN Shippers ON Shippers.ShipperID = Orders.ShipperID

JOIN OrderDetails ON orders.orderID=OrderDetails.OrderID

JOIN Products ON Products.ProductID = OrderDetails.ProductID

1. Ensure slide number 86 is complete
2. Start doing slide 92 using erd on slide 91
3. Display a single relation with: OrderId, OrderDate, CustomerName, City, Address, PostalCode, ShipperName, ProductName, Quantity.

SELECT C.CustomerName, C.City, C.Address, C.PostalCode, O.OrderID, O.OrderDate, S.ShipperName, ORD.Quantity, P.ProductName

FROM Customers AS C

JOIN Orders AS O ON O.CustomerID = C.CustomerID

JOIN Shippers AS S ON O.ShipperID = S.ShipperID

JOIN OrderDetails AS ORD ON O.OrderID=ORD.OrderID

JOIN Products AS P ON P.ProductID =ORD.ProductID;

1. Display all products ever been ordered and display the shipper name.

SELECT P.ProductName, S.ShipperName

FROM Products AS P

JOIN OrderDetails AS ORD ON P.ProductID =ORD.ProductID

JOIN Orders AS O ON O.OrderID=ORD.OrderID

JOIN Shippers AS S ON O.ShipperID = S.ShipperID;

1. Display all products ever been ordered and display the shipper name.

SELECT COUNT (P.ProductName), S.ShipperName

FROM Products AS P

JOIN OrderDetails AS ORD ON P.ProductID =ORD.ProductID

JOIN Orders AS O ON O.OrderID=ORD.OrderID

JOIN Shippers AS S ON O.ShipperID = S.ShipperID

GROUP BY S.ShipperName;

1. How many customers DO NOT have the words ‘son’ in their CustomerName.

SELECT COUNT (Customername)

FROM Customers

WHERE Customername LIKE '%son%'=0;

1. Find the total sales made in the year 1997.

SELECT SUM(ORD.Quantity\*P.Price)

FROM Products AS P

JOIN OrderDetails AS ORD ON P.ProductID =ORD.ProductID

JOIN Orders AS O ON O.OrderID = ORD.OrderID

WHERE OrderDate LIKE '1997%';

1. Find the top supplier of the business (in terms of products ordered).

SELECT SUM(ORD.Quantity), S.SupplierName

FROM OrderDetails AS ORD

JOIN Products AS P ON P.ProductID =ORD.ProductID

JOIN Suppliers AS S ON P.SupplierID = S.SupplierID

GROUP BY SupplierName

ORDER BY SUM(ORD.Quantity) DESC;

1. Find the total sales of each product.

SELECT SUM(ORD.Quantity\*P.Price) as Sales, P.ProductName

FROM Products AS P

JOIN OrderDetails AS ORD ON P.ProductID =ORD.ProductID

GROUP BY P.ProductName

ORDER BY Sales DESC;

1. Find the best performing month in the business in terms of sales.

FROM Products AS P

JOIN OrderDetails AS ORD ON P.ProductID =ORD.ProductID

JOIN Orders AS O ON O.OrderID = ORD.OrderID

GROUP BY Day

ORDER BY Sales desc;

1. Find the total Sales for each Customer, the ones who have never ordered leave as 0.

SELECT C.CustomerName, SUM(ORD.Quantity\*P.Price) AS Sales

FROM Customers as C

JOIN Orders AS O ON O.CustomerID = C.CustomerID

JOIN OrderDetails AS ORD ON O.OrderID=ORD.OrderID

JOIN Products AS P ON P.ProductID =ORD.ProductID

GROUP BY C.CustomerName

ORDER BY Sales Desc;

1. Find the best performing month in the business in terms of sales. Hint: Use substr() on the date to slice

SELECT O.OrderDate,SUBSTR(O.OrderDate,6,2) as Months,SUM(OD.Quantity\*P.Price) as ProductSales

FROM OrderDetails as OD

JOIN Orders as O on O.OrderID=OD.OrderID

JOIN Products as P on P.ProductID=OD.ProductID

GROUP BY Months

ORDER BY ProductSales DESC

LIMIT 1;

1. Find the total sales per day.

SELECT SUM(ORD.Quantity\*P.Price) as Sales, O.OrderDate

FROM Products AS P

JOIN OrderDetails AS ORD ON P.ProductID =ORD.ProductID

JOIN Orders AS O ON O.OrderID = ORD.OrderID

GROUP BY O.OrderDate

ORDER BY Sales Desc;