

167PS SQL Homework #1 – Jack Rellamas

1. For Table **Customer**, what is country has the most customers?

USA (13 customers) has the most amount customers by country.

```
SELECT COUNT(CustomerID), Country
FROM Customers
GROUP BY Country
ORDER BY COUNT(CustomerID) DESC;
```

2. For Table **Customer**, what city has the most customers?

London has the most customers, 6.

```
select count(City), city from customers group by city order by count(city) desc;
```

3. For Table **Employees**, what is the age of each employee? use “DATE()” to grab today’s date

firstname	lastname	birthdate	Age
Anne	Dodsworth	7/2/1969	56
Nancy	Davolio	12/8/1968	57
Janet	Leverling	8/30/1963	62
Michael	Suyama	7/2/1963	62
Robert	King	5/29/1960	65
Margaret	Peacock	9/19/1958	67
Laura	Callahan	1/9/1958	67
Steven	Buchanan	3/4/1955	70
Andrew	Fuller	2/19/1952	73
Adam	West	9/19/1928	97

SELECT firstname, lastname, birthdate, YEAR(DATE()) - YEAR(birthdate) as Age FROM Employees order by birthdate desc;

4. For Table **OrderDetails**, which product has the highest total quantity?

ProductID = 31 has most sales with 458 total.

SELECT productid, sum(quantity) as ProductQuantity FROM OrderDetails group by productid ORDER BY sum(quantity) DESC;

5. For Table **OrderDetails**, which product shows up on the most number of orders?

The products that show up the most (14 times) are products 31, 59, and 72.

Select productid, count(productid) as countProduct FROM OrderDetails group by productid ORDER BY count(productid) DESC;

6. For Table **Orders**, Which customers has the most orders?

The customer that had the most amount of orders was customer 20 with 10 orders.

select CustomerID, count(CustomerID) as numCustomerOrders from Orders group by CustomerID order by count(CustomerID) desc;

7. For Table **Orders**, which shipper shipped the most orders?

The shipper with the most was shipper #2 with 74 shipments.

select ShipperID, count(ShipperID) as numShipments from Orders group by ShipperID order by count(ShipperID) desc;

8. For Table **Orders**, how many days has this company been in business?

The first order was 10486 days ago.

SELECT *, Date() - OrderDate as daysSinceOrder FROM Orders order by OrderDate asc;

9. For Table **Products**, what is the maximum price/minimum price?

Max: Côte de Blaye, productid = 38, price = 263.5

Min: Geitost, productid = 33, price = 2.5

Find Max:

```
SELECT productid, max(price) as maxprice FROM Products group by productid order by max(price) desc;
```

```
SELECT productid, productname FROM Products where productid = 38;
```

Find Min:

```
SELECT productid, min(price) as minprice FROM Products group by productid order by min(price);
```

```
SELECT productid, productname FROM Products where productid = 33;
```

10. For Table **Products**, what supplier has the most number of products? highest average price?

Suppliers 7 and 12 have the most number of products, both having 5 products each.

```
select top 1 supplierid, count(productid) AS totalproducts from products group by supplierid order by count(productid) desc;
```

The supplier with the highest average price is supplier 18 coming in at 140.75.

```
select top 1 supplierid, avg(price) AS avgPrice from products group by supplierid order by avg(price) desc;
```

11. For Table **Products**, which product has the highest PRICE PER UNIT. (Take the first digits before the space). Use InStr(column, ' ') to find where the first space is. Use mid(column, starting position, ending position). Might need to convert that to an integer???

1. SELECT *, price/int(mid(unit, 1, instr(unit, ' ')-1))