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TASK: SQL INDIVIDUAL PROJECT WEEK 4

Question One.

What are the total sums of freights of ship cities that have 30 or more customers?

ShipCity		Freight Total	Number Of Customers	Tables
Rio de Janeiro		1685.27	34	Employee
London		2118.67	33	Category
Sao Paulo		2677.83	31	Customer
Boise		6683.7	31	Shipper
Graz		6205.39	30	Supplier
				Order
				Product
				OrderDetail
				CustomerCustomerDemo
				CustomerDemographic
				Region
				Territory
				EmployeeTerritory
Run	1 SELECT ShipCity,ROUND(SUM(Freight),2) AS 'Freight Total', 2 COUNT(CustomerId) AS 'Number Of Customers' 3 FROM 'Order' 4 GROUP BY ShipCity 5 HAVING COUNT(CustomerId)>=30 6 ORDER BY 3 DESC;			

Question Two

Generate a table of employees and the number of customers they handle

EmployeeId	FirstName	Name	Number Of Customers Handled	Tables
4	Margaret	Peacock	156	Employee
3	Janet	Leverling	127	<ul style="list-style-type: none">Id integerLastName varchar(8000)FirstName varchar(8000)Title varchar(8000)TitleOfCourtesy varchar(8000)BirthDate varchar(8000)HireDate varchar(8000)Address varchar(8000)City varchar(8000)Region varchar(8000)PostalCode varchar(8000)Country varchar(8000)HomePhone varchar(8000)Extension varchar(8000)Photo blobNotes varchar(8000)ReportsTo integerPhotoPath varchar(8000)
1	Nancy	Davolio	123	
8	Laura	Callahan	104	
2	Andrew	Fuller	96	
7	Robert	King	72	
6	Michael	Suyama	67	
9	Anne	Dodsworth	43	
5	Steven	Buchanan	42	
Run	<pre>1 SELECT EmployeeId,FirstName,LastName AS Name,COUNT(CustomerId) AS 'Number Of Customers Handled' 2 FROM 'Order' 3 JOIN 'Employee' 4 ON 'Order'.EmployeeId='Employee'.Id 5 GROUP BY EmployeeId 6 ORDER BY 4 DESC;</pre>			Category
				Customer
				Shipper
				Supplier
				Order
				Product

Question Three

How many orders were made each year?

Year	Number Of Orders	Tables
2014	270	Employee
2013	408	Category
2012	152	Customer
		Shipper
		Supplier
		Order
		Product
		OrderDetail
		CustomerCustomerDemo
		CustomerDemographic
		Region
		Territory
		EmployeeTerritory

Run	<pre>1 SELECT SUBSTRING(DATE(OrderDate),1,4) AS 'Year', 2 COUNT(Id) AS 'Number Of Orders' 3 FROM 'Order' 4 GROUP BY Year 5 ORDER BY 1 DESC;</pre>	<div>Id varchar(8000)</div> <div>EmployeeId integer</div> <div>TerritoryId varchar(8000)</div>
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Question Four

What quantity of the product '**Chang**' was shipped in 2014?

Product Name	Total # Shipped	Year	Tables
Chang	354	2014	<ul style="list-style-type: none">EmployeeId integerOrderDate varchar(8000)RequiredDate varchar(8000)ShippedDate varchar(8000)ShipVia integerFreight decimalShipName varchar(8000)ShipAddress varchar(8000)ShipCity varchar(8000)ShipRegion varchar(8000)ShipPostalCode varchar(8000)ShipCountry varchar(8000)
Run	<pre>1 SELECT ProductName AS 'Product Name', 2 SUM(Quantity) AS 'Total # Shipped', 3 SUBSTRING(DATE(ShippedDate),1,4) AS 'Year' 4 FROM 'OrderDetail' 5 JOIN 'Order' 6 ON 'Order'.Id='OrderDetail'.OrderId</pre>		<ul style="list-style-type: none">ProductOrderDetailCustomerCustomerDemo

```
SELECT ProductName AS 'Product Name',
SUM(Quantity) AS 'Total # Shipped',
SUBSTRING(DATE(ShippedDate),1,4) AS 'Year'
FROM 'OrderDetail'
JOIN 'Order'
ON 'Order'.Id='OrderDetail'.OrderId
JOIN 'Product'
ON 'Product'.Id='OrderDetail'.ProductId
AND Product.ProductName='Chang'
WHERE Year="2014"
ORDER BY 1 DESC;
```

Question Five

What are the revenues per supplier in 2013 before and after discount applied? Show both values in a single table.

Revenue Without Discount	Revenue With Discount	Supplier	Year	Tables
223.2	223.2	Formaggi Fortini s.r.l.	2013	Employee
144	144	Exotic Liquids	2013	Category
1755	1755	Escargots Nouveaux	2013	Customer
320.25	288.23	Cooperativa de Quesos 'Las Cabras'	2013	Shipper
291.9	248.12	Bigfoot Breweries	2013	Supplier
1500	1500	Aux joyeux ecclésiastiques	2013	Order
Run	<pre> 1 SELECT ROUND(Quantity*UnitPrice,2) AS 'Revenue Without Discount', 2 ROUND(Quantity*UnitPrice-Quantity*UnitPrice*Discount,2) AS 'Revenue With Discount', 3 CompanyName AS 'Supplier', 4 SUBSTRING(DATE(OrderDate),1,4) AS 'Year' 5 6 FROM 'OrderDetail' </pre>			Product
				OrderDetail
				CustomerCustomerDemo
				CustomerDemographic
				Region

```

SELECT ROUND(Quantity*UnitPrice,2) AS 'Revenue Without Discount',
ROUND(Quantity*UnitPrice-Quantity*UnitPrice*Discount,2) AS 'Revenue With Discount',
CompanyName AS 'Supplier',
SUBSTRING(DATE(OrderDate),1,4) AS 'Year'
FROM 'OrderDetail'
JOIN 'Supplier'
ON 'OrderDetail'.ProductId='Supplier'.Id

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JOIN 'Order'
ON 'Order'.Id='OrderDetail'.OrderId
WHERE Year='2013'
GROUP BY 3
ORDER BY 3 DESC;

```

Alternative With Other Details

Quantity	UnitPrice	Discount	Revenue Without Discount	Revenue With Discount	Supplier	Year	Tables
12	16.8	0	201.6	201.6	Zaanse Snoepfabriek	2013	Employee
16	17.6	0.2	281.6	225.28	Tokyo Traders	2013	Category
2	31.2	0	62.4	62.4	Svensk Sjöföda AB	2013	Customer
10	40	0.15	400	340	Specialty Biscuits, Ltd.	2013	Shipper
14	24.8	0	347.2	347.2	Refrescos Americanas LTDA	2013	Supplier
Run	<pre> 1 SELECT Quantity,UnitPrice,Discount, 2 ROUND(Quantity*UnitPrice,2) AS 'Revenue Without Discount', 3 ROUND(Quantity*UnitPrice-Quantity*UnitPrice*Discount,2) AS 'Revenue With Discount', 4 CompanyName AS 'Supplier', 5 SUBSTRING(DATE(OrderDate),1,4) AS 'Year' 6 </pre>						Order
							Product
							OrderDetail
							CustomerCustomerDemo
							CustomerDemographic
							Region

```
SELECT Quantity,UnitPrice,Discount,  
ROUND(Quantity*UnitPrice,2) AS 'Revenue Without Discount',  
ROUND(Quantity*UnitPrice-Quantity*UnitPrice*Discount,2) AS 'Revenue With Discount',  
CompanyName AS 'Supplier',  
SUBSTRING(DATE(OrderDate),1,4) AS 'Year'  
FROM 'OrderDetail'  
JOIN 'Supplier'  
ON 'OrderDetail'.ProductId='Supplier'.Id  
JOIN 'Order'  
ON 'Order'.Id='OrderDetail'.OrderId  
WHERE Year='2013'  
GROUP BY 6  
ORDER BY 6 DESC;
```