SQL Query Development Project

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Website Sandboxsql:

You may test all of your queries on this website, Sandboxsql. You can even access and upload your locally saved database and utilize it here.

Question No 1:

1. **What are the total sums of freights of ship cities that have orders from 2 or more customers?**

   Solution:

```
SELECT ShipCity,
SUM(Freight) AS TotalFreight
FROM 'Order'
GROUP BY ShipCity
HAVING COUNT(DISTINCT CustomerId)>=2
ORDER BY TotalFreight DESC;
```

ShipCity	TotalFreight
Sao Paulo	2677.8299999999995
London	2118.67
Rio de Janeiro	1685.2699999999998
México D.F.	1122.78
Lisboa	643.53
Buenos Aires	598.5799999999999
Portland	341.94999999999993
Madrid	255.64
Nantes	235.12

Run

```
SELECT ShipCity,
SUM(Freight) AS TotalFreight
FROM 'Order'
GROUP BY ShipCity
HAVING COUNT(DISTINCT CustomerId)>=2
ORDER BY TotalFreight DESC;
```

Question No 2:

2. **Generate a table of employees and the number of customers they handle.**

   Solution:

```
SELECT EmployeeId,
COUNT(DISTINCT CustomerId) AS TotalCustomersHandled
FROM 'Order'
GROUP BY EmployeeId;
```

EmployeeId	TotalCustomersHandled
1	65
2	59
3	63
4	75
5	29
6	43
7	45
8	56
9	29

```
1 SELECT EmployeeId,COUNT(DISTINCT CustomerId) AS TotalCustomersHandled
2 FROM 'Order'
3 GROUP BY EmployeeId;
```

Run

Question No 3:

3. **How many orders were made each year?**

Solution:

```
SELECT STRFTIME('%Y',OrderDate) AS OrderYear,
COUNT(Id) AS TotalOrders
FROM 'Order'
GROUP BY STRFTIME('%Y',OrderDate);
```

OrderYear	TotalOrders
2012	152
2013	408
2014	270

Run

```
1 SELECT STRFTIME('%Y',OrderDate) AS OrderYear, COUNT(Id) AS TotalOrders
2 FROM 'Order'
3 GROUP BY STRFTIME('%Y',OrderDate);
```

Question No 4:

4. **What quantity of the product ‘Chang’ was shipped in 2014?**

   Solution:

```
SELECT ProductId,
SUM(Quantity) AS TotalQuantity
FROM OrderDetail
JOIN 'Order'
ON OrderDetail.OrderId='Order'.Id
WHERE OrderDate LIKE '2014%' AND ProductId=2;
```

ProductId	TotalQuantity
2	396

Run

```
1 SELECT ProductId, SUM(Quantity) AS TotalQuantity
2 FROM OrderDetail
3 JOIN 'Order'
4 ON OrderDetail.OrderId='Order'.Id
5 WHERE OrderDate LIKE '2014%' AND ProductId=2;
```

Question No 5:

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

   Solution:

```
SELECT Product.SupplierId,
OrderDetail.UnitPrice*Quantity AS RevenueBeforeDiscount,
(OrderDetail.UnitPrice-OrderDetail.UnitPrice*Discount)*Quantity AS
RevenueAfterDiscount
FROM 'OrderDetail'
JOIN Product
ON Product.Id='OrderDetail'.ProductId
JOIN 'Order'
ON 'Order'.Id='OrderDetail'.OrderId
WHERE OrderDate LIKE '2013%'
GROUP BY Product.SupplierId;
```

SupplierId	RevenueBeforeDiscount	RevenueAfterDiscount
1	400	400
2	336	336
3	384	364.8
4	120	120
5	504	504
6	223.20000000000002	223.20000000000002
7	2281.5	2281.5
8	240	216
9	432	432

10	72	64.80000000000001
11	747	709.65
12	2079	2079
13	372.59999999999997	372.59999999999997
14	140	140
15	1032	1032
16	504	504
17	76	68.4
18	10540	10540
19	29.4	26.459999999999997
20	448	425.59999999999997
21	19.2	14.399999999999999
22	714	606.9
23	480	480
24	262	262
25	35.400000000000006	35.400000000000006
26	2128	2128
27	265	265
21	19.2	14.399999999999999
22	714	606.9
23	480	480
24	262	262
25	35.400000000000006	35.400000000000006
26	2128	2128
27	265	265
28	704	704
29	1379	1379

Run

```
SELECT Product.SupplierId, OrderDetail.UnitPrice*Quantity AS RevenueBeforeDiscount, (Orde
FROM 'OrderDetail'
JOIN Product
ON Product.Id='OrderDetail'.ProductId
JOIN 'Order'
ON 'Order'.Id='OrderDetail'.OrderId
```