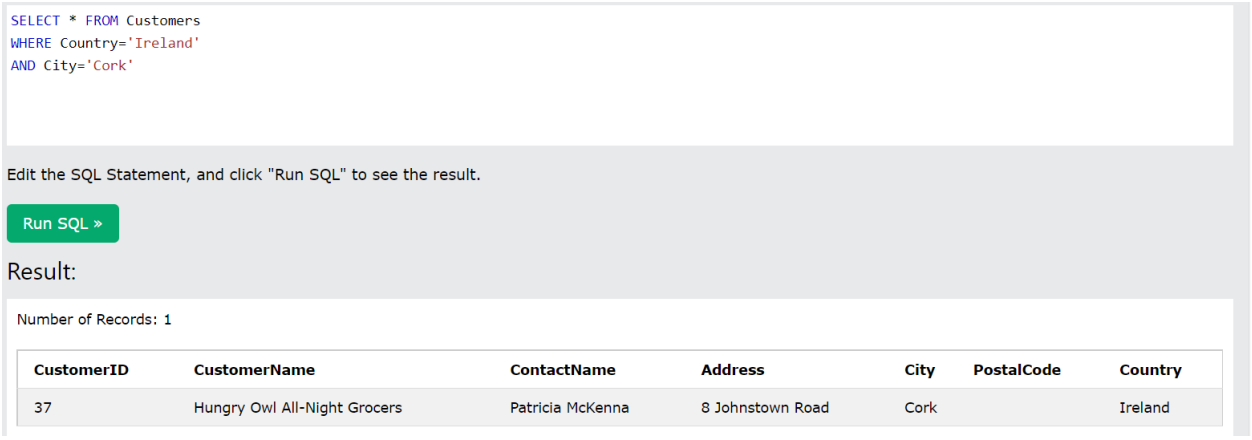
1. Display the list of customers who are from Ireland and the city is Cork.

QUERY:

```
SELECT * FROM Customers
WHERE Country='Ireland'
AND City='Cork'
```



2. Write a nested query to get the name of the shipper who delivered the order to "Tradição Hipermercados (customer name)".

QUERY:

```
SELECT ShipperName
FROM Shippers
WHERE ShipperID = (SELECT ShipperID
                   FROM Orders
                   WHERE CustomerID = (SELECT CustomerID
                                       FROM Customers
                                       WHERE CustomerName = 'Tradição Hipermercados'));
```

```
FROM Shippers
WHERE ShipperID = (SELECT ShipperID
            FROM Orders
            WHERE CustomerID = (SELECT CustomerID
                FROM Customers
                WHERE CustomerName = 'Tradição Hipermercados'));
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

ShipperName
Speedy Express

3. Which is the Order with the most number of order details?

QUERY:

SELECT OrderID, **MAX**(detailcount)
FROM (**SELECT** OrderID, **COUNT**(OrderDetailID) as detailcount
FROM OrderDetails **GROUP BY** OrderID)

SQL Statement:

```
SELECT OrderID, MAX(detailcount) from (SELECT OrderID, COUNT(OrderDetailID) as detailcount FROM OrderDetails GROUP BY OrderID)
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 1

OrderID	MAX(detailcount)
10273	5

4. Generate the search result which shows the employee name for the order with most order details. (Provide only one query. You can use the result from the previous query)

QUERY:

```
SELECT FirstName, LastName
FROM Employees
WHERE EmployeeID=(SELECT EmployeeID
                  FROM Orders
                  WHERE OrderID=(SELECT OrderID
                                 FROM OrderDetails GROUP BY OrderID ORDER
                                     BY COUNT(*) DESC LIMIT 1));
```

5. Insert a new customer with the following details –

a. Name – Sachin Tiwari
b. ContactName - Sachin
c. Address – 57, New Vihar
d. City – Delhi
e. Postal Code – 10006
f. Country – India

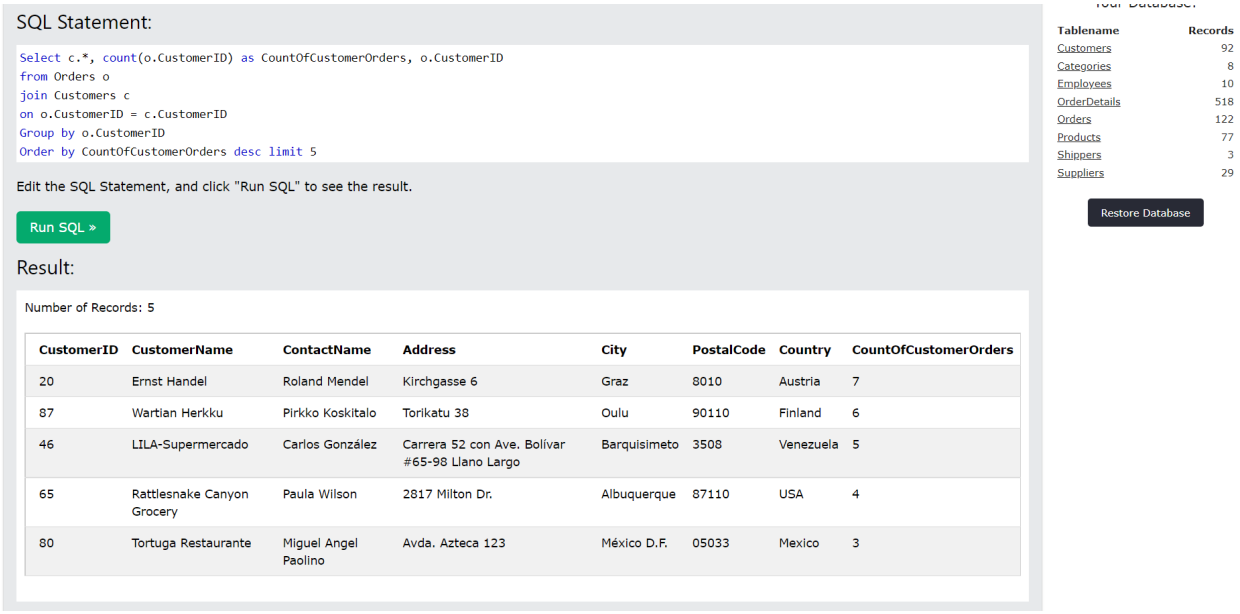
QUERY:

```
INSERT into Customers values (92,"Sachin Tiwari","Sachin","57, New Vihar" , "Delhi" , 10006 ,"India");
```

6. Who are the top 5 customers who have made the most number of orders?

QUERY:

SELECT c.*, count(o.CustomerID) as CountOfCustomerOrders, o.CustomerID
FROM Orders o
JOIN Customers c
ON o.CustomerID = c.CustomerID
GROUP BY o.CustomerID
ORDER BY CountOfCustomerOrders desc limit 5



SQL Statement:

```
Select c.*, count(o.CustomerID) as CountOfCustomerOrders, o.CustomerID
from Orders o
join Customers c
on o.CustomerID = c.CustomerID
Group by o.CustomerID
Order by CountOfCustomerOrders desc limit 5
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 5

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country	CountOfCustomerOrders
20	Ernst Handel	Roland Mendel	Kirchgasse 6	Graz	8010	Austria	7
87	Wartian Herkku	Pirkko Koskitalo	Torikatu 38	Oulu	90110	Finland	6
46	LILA-Supermercado	Carlos González	Carrera 52 con Ave. Bolívar #65-98 Llano Largo	Barquisimeto	3508	Venezuela	5
65	Rattlesnake Canyon Grocery	Paula Wilson	2817 Milton Dr.	Albuquerque	87110	USA	4
80	Tortuga Restaurante	Miguel Angel Paolino	Avda. Azteca 123	México D.F.	05033	Mexico	3

Tablename	Records
Customers	92
Categories	8
Employees	10
OrderDetails	518
Orders	122
Products	77
Shippers	3
Suppliers	29

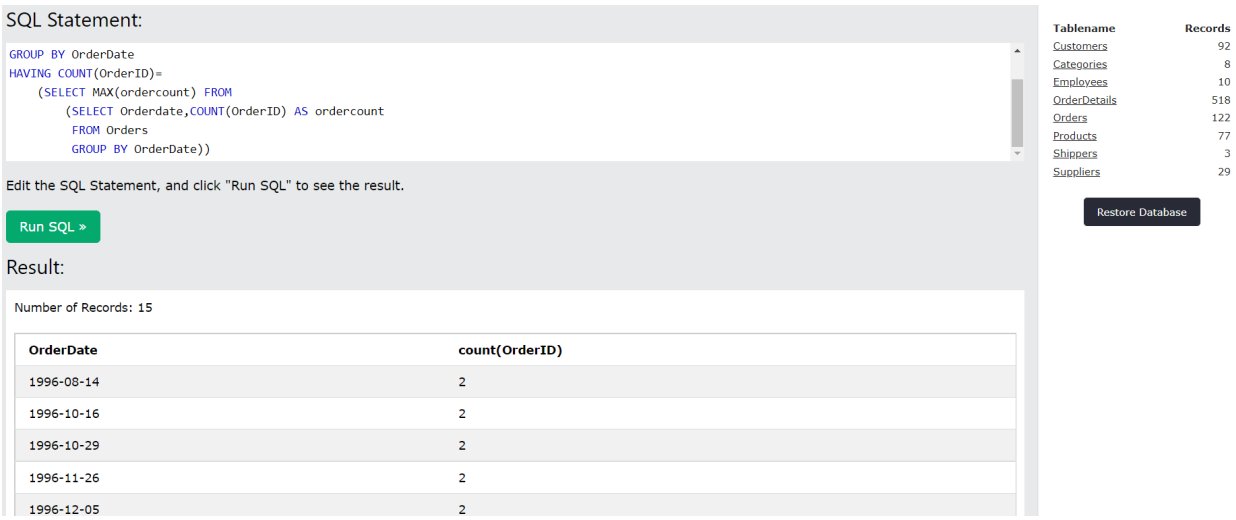
Restore Database

7. On which date were most of the orders placed?

QUERY:

SELECT OrderDate, count(OrderID)
FROM Orders
GROUP BY OrderDate
HAVING count(OrderID)=
  (**SELECT** MAX(ordercount) **FROM**
    (**SELECT** Orderdate,COUNT(OrderID) **AS** ordercount

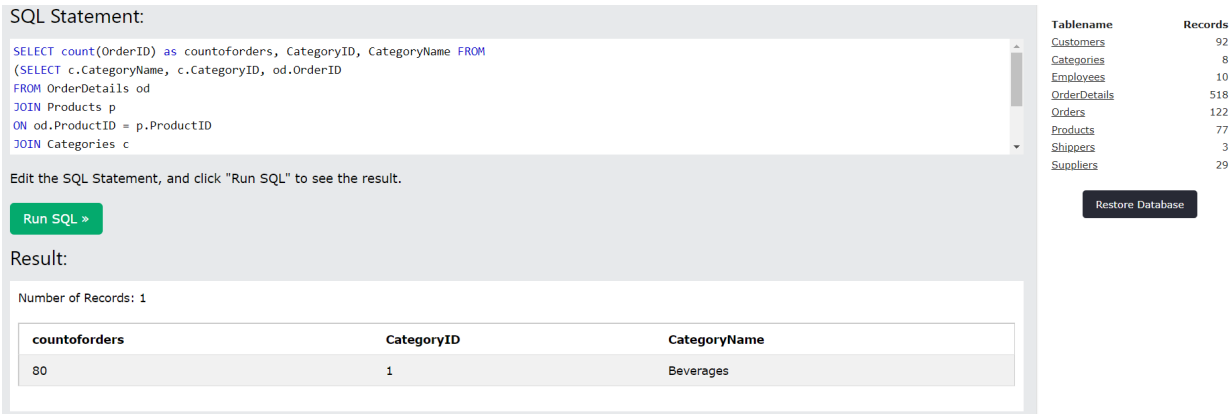
FROM Orders
GROUP BY OrderDate))



8. Query to find out the category from which maximum orders were placed.

QUERY:

SELECT count(OrderID) as countoforders, CategoryID, CategoryName
FROM
(**SELECT** c.CategoryName, c.CategoryID, od.OrderID
FROM OrderDetails od
JOIN Products p
ON od.ProductID = p.ProductID
JOIN Categories c
ON p.CategoryID = c.CategoryID
GROUP BY od.OrderID, c.CategoryID)
GROUP BY CategoryID
ORDER BY countoforders **DESC LIMIT** 1



9. Whom do you consider the best employee? (Best employee is just as per the number of orders sold)

QUERY:

SELECT FirstName, LastName
FROM Employees WHERE EmployeeID=(**SELECT** EmployeeID
FROM Orders **GROUP BY** EmployeeID
ORDER BY COUNT(*) DESC LIMIT 1);

10.Write a query to know the number of orders placed in the duration of 1996-09-20 and 1996-10-17.

QUERY:

SELECT COUNT(*)
FROM Orders
WHERE OrderDate
BETWEEN '1996-09-20' AND '1996-10-17';

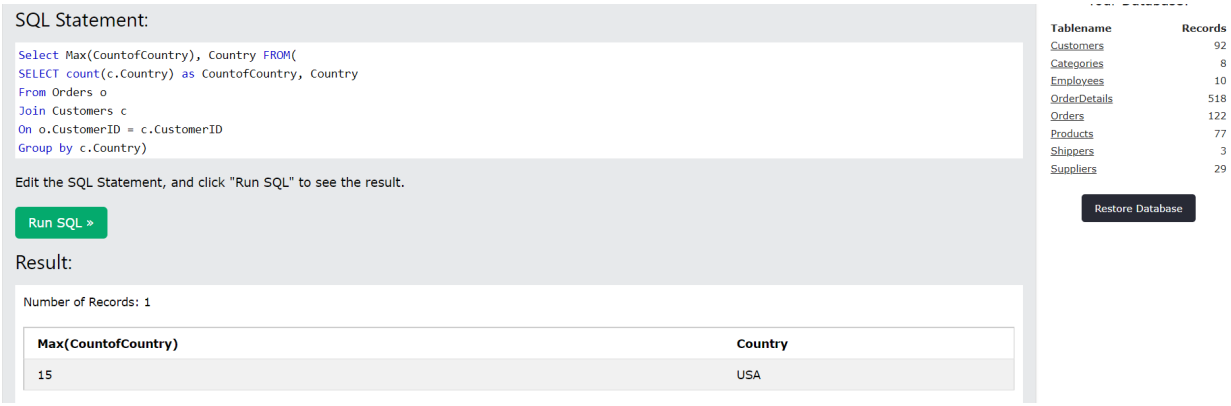
11. Delete the records from orders where the Shipper name is United Package.

QUERY:

DELETE FROM Orders **WHERE** ShipperID=(**SELECT** ShipperID **FROM** Shippers **WHERE** ShipperName='United Package');

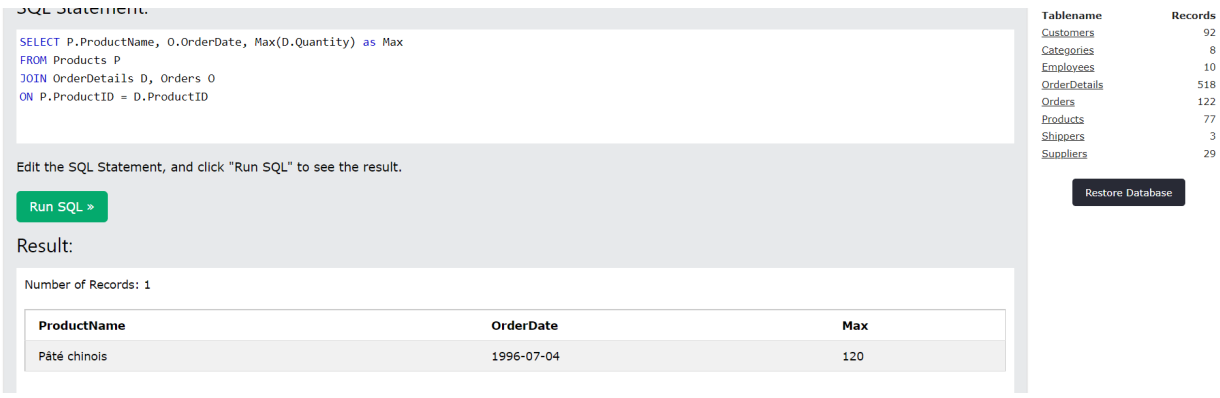
12. From which country were the maximum orders placed?

QUERY:
SELECT Max(CountofCountry), Country **FROM**(
SELECT count(c.Country) as CountofCountry, Country
FROM Orders o
JOIN Customers c
ON o.CustomerID = c.CustomerID
GROUP BY c.Country)



13. Which product and when was it ordered in the maximum quantity?

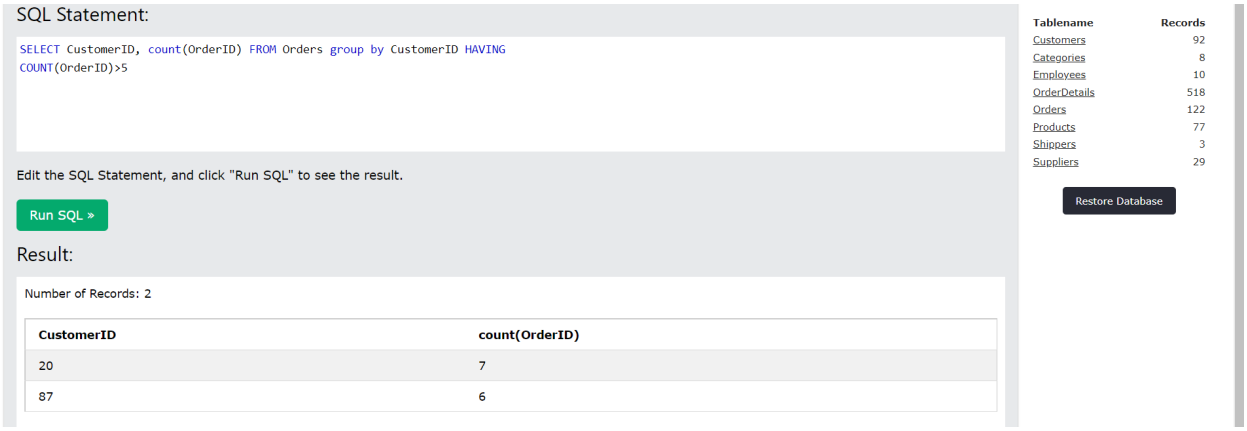
QUERY:
SELECT P.ProductName, O.OrderDate, Max(D.Quantity) as Max
FROM Products P
JOIN OrderDetails D, Orders O
ON P.ProductID = D.ProductID



14. Write a query to get the list of CustomerIDs who placed more than 5 orders.

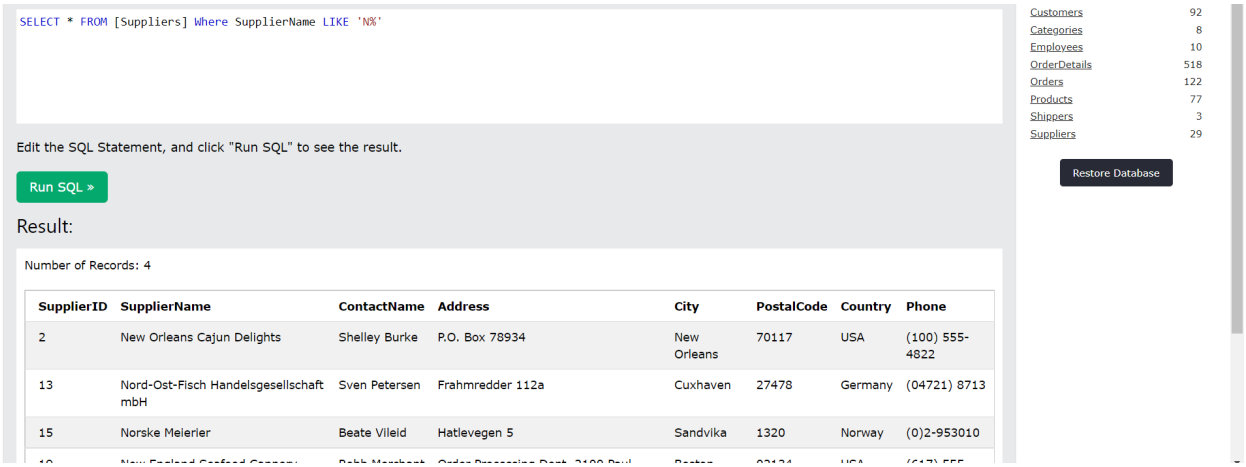
QUERY:

SELECT CustomerID, count(OrderID)
FROM Orders
GROUP BY CustomerID
HAVING COUNT(OrderID)>5



15. Write a query to get the list of all suppliers whose name starts with N.

QUERY:
SELECT *
FROM [Suppliers] **WHERE** SupplierName **LIKE** 'N%'



```
SELECT * FROM [Suppliers] Where SupplierName LIKE 'N%'
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 4

SupplierID	SupplierName	ContactName	Address	City	PostalCode	Country	Phone
2	New Orleans Cajun Delights	Shelley Burke	P.O. Box 78934	New Orleans	70117	USA	(100) 555-4822
13	Nord-Ost-Fisch Handelsgesellschaft mbH	Sven Petersen	Frahmredder 112a	Cuxhaven	27478	Germany	(04721) 8713
15	Norske Meierier	Beate Vileid	Hatlevegen 5	Sandvika	1320	Norway	(0)2-953010

Customers	92
Categories	8
Employees	10
OrderDetails	518
Orders	122
Products	77
Shippers	3
Suppliers	29

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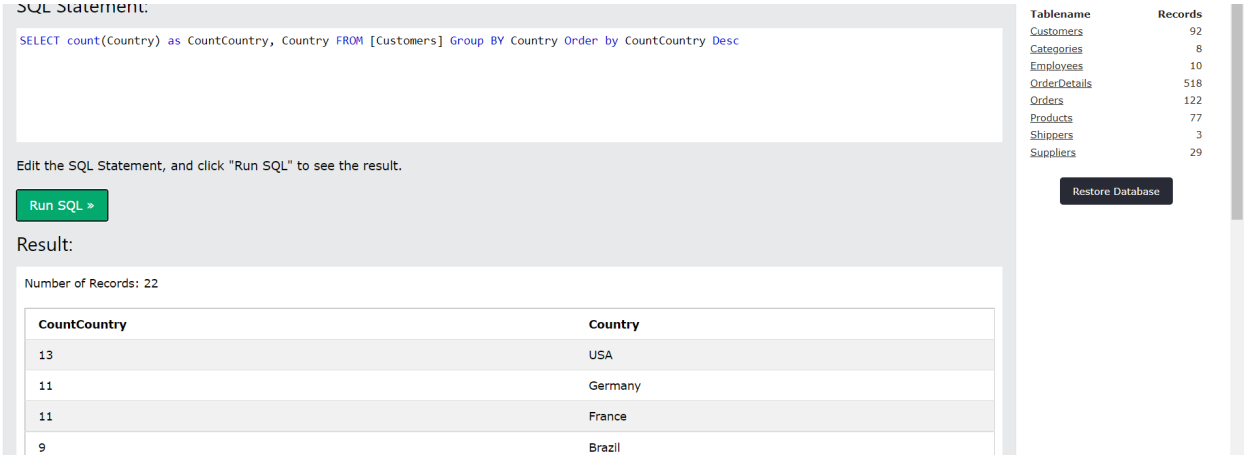
16. List the number of customers in each country, ordered by the country with the most customers first.

QUERY:
SELECT count(Country) as CountCountry, Country
FROM [Customers] **GROUP BY** Country **ORDER BY** CountCountry **Desc**



SQL Statement:

```
SELECT count(Country) as CountCountry, Country FROM [Customers] Group BY Country Order by CountCountry Desc
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 22

CountCountry	Country
13	USA
11	Germany
11	France
9	Brazil

Tablename	Records
Customers	92
Categories	8
Employees	10
OrderDetails	518
Orders	122
Products	77
Shippers	3
Suppliers	29

Restore Database