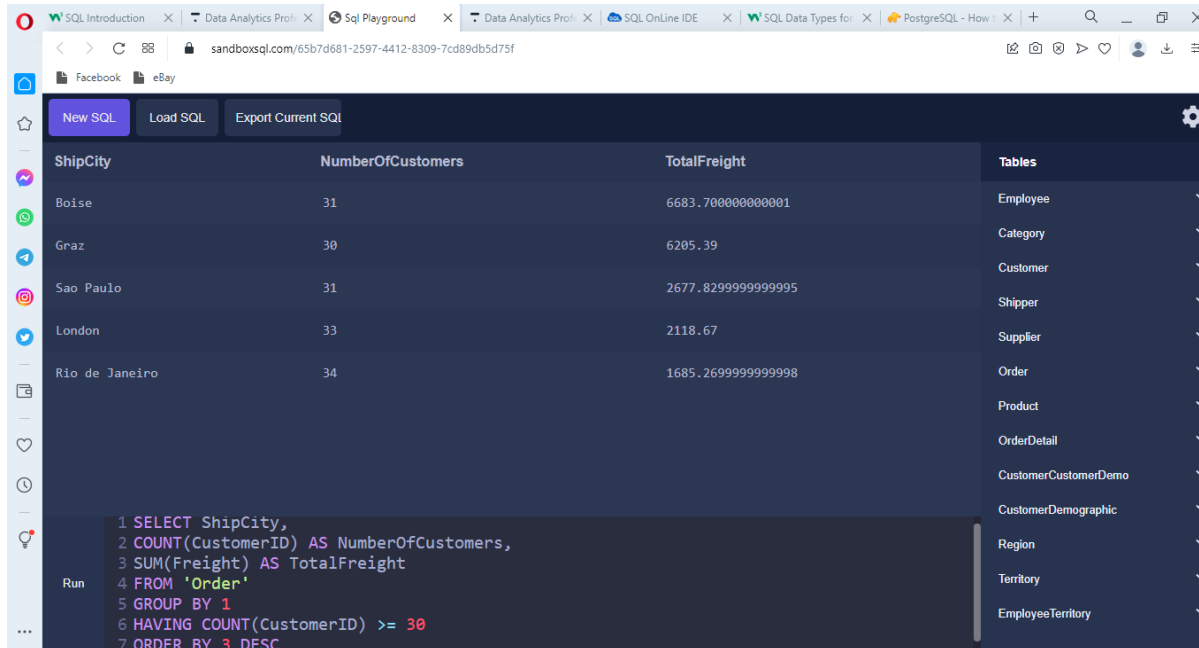


CHIDIEBERE DAVID OGBONNA

WEEK 4 INDIVIDUAL PROJECT

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



The screenshot shows a web browser with multiple tabs. The active tab is 'SQL Playground' at 'sandboxsql.com'. The interface includes a sidebar with social media links (Facebook, eBay) and a 'New SQL' button. The main area displays a table with the following data:

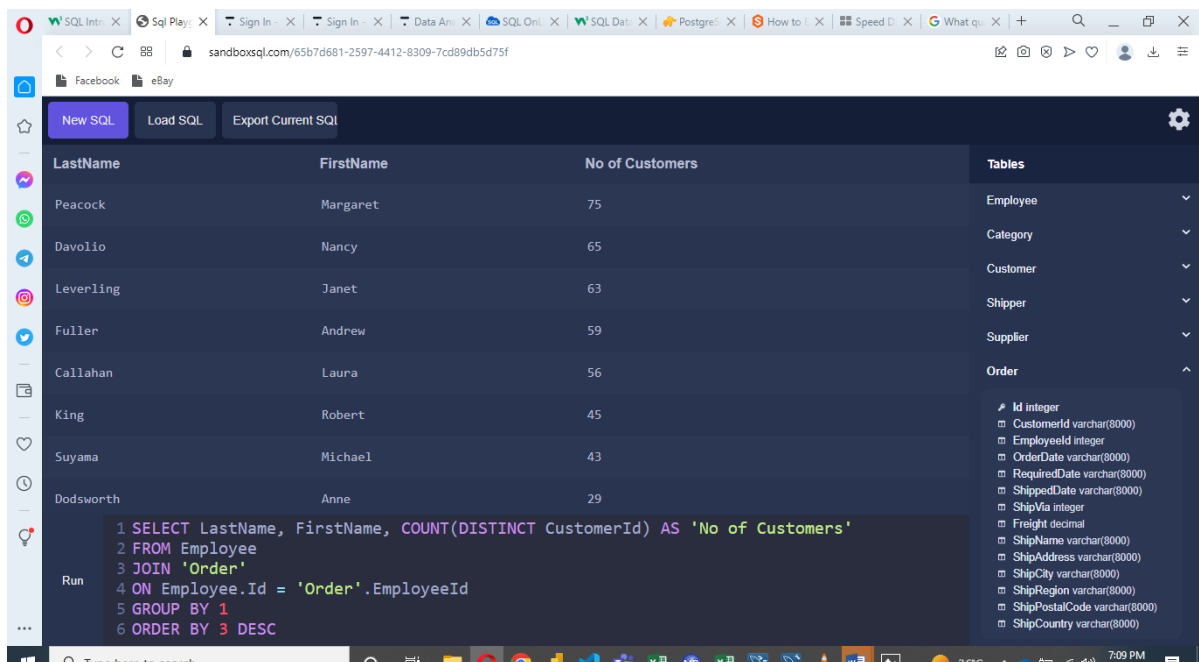
ShipCity	NumberOfCustomers	TotalFreight
Boise	31	6683.700000000001
Graz	30	6205.39
Sao Paulo	31	2677.8299999999995
London	33	2118.67
Rio de Janeiro	34	1685.2699999999998

Below the table, a SQL query is shown in a code editor:

```
1 SELECT ShipCity,  
2 COUNT(CustomerID) AS NumberOfCustomers,  
3 SUM(Freight) AS TotalFreight  
4 FROM 'Order'  
5 GROUP BY 1  
6 HAVING COUNT(CustomerID) >= 30  
7 ORDER BY 3 DESC
```

On the right side, a 'Tables' list is visible, including Employee, Category, Customer, Shipper, Supplier, Order, Product, OrderDetail, CustomerCustomerDemo, CustomerDemographic, Region, Territory, and EmployeeTerritory.

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



The screenshot shows the same 'SQL Playground' interface. The main area displays a table with the following data:

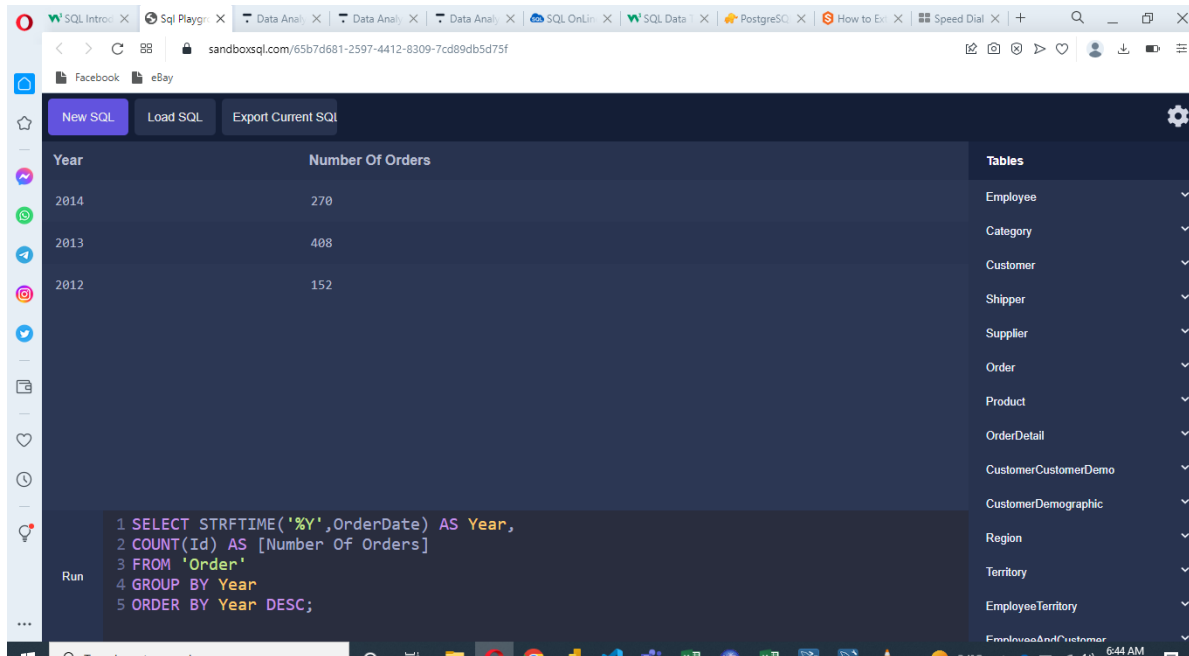
LastName	FirstName	No of Customers
Peacock	Margaret	75
Davolio	Nancy	65
Leverling	Janet	63
Fuller	Andrew	59
Callahan	Laura	56
King	Robert	45
Suyama	Michael	43
Dodsworth	Anne	29

Below the table, a SQL query is shown in a code editor:

```
1 SELECT LastName, FirstName, COUNT(DISTINCT CustomerId) AS 'No of Customers'  
2 FROM Employee  
3 JOIN 'Order'  
4 ON Employee.Id = 'Order'.EmployeeId  
5 GROUP BY 1  
6 ORDER BY 3 DESC
```

On the right side, the 'Tables' list is expanded, showing details for the 'Order' table, including columns like Id, CustomerId, EmployeeId, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipName, ShipAddress, ShipCity, ShipRegion, ShipPostalCode, and ShipCountry.

3. How many orders were made each year?



The screenshot shows a web-based SQL IDE interface. The main area displays a table with two columns: 'Year' and 'Number Of Orders'. The data is as follows:

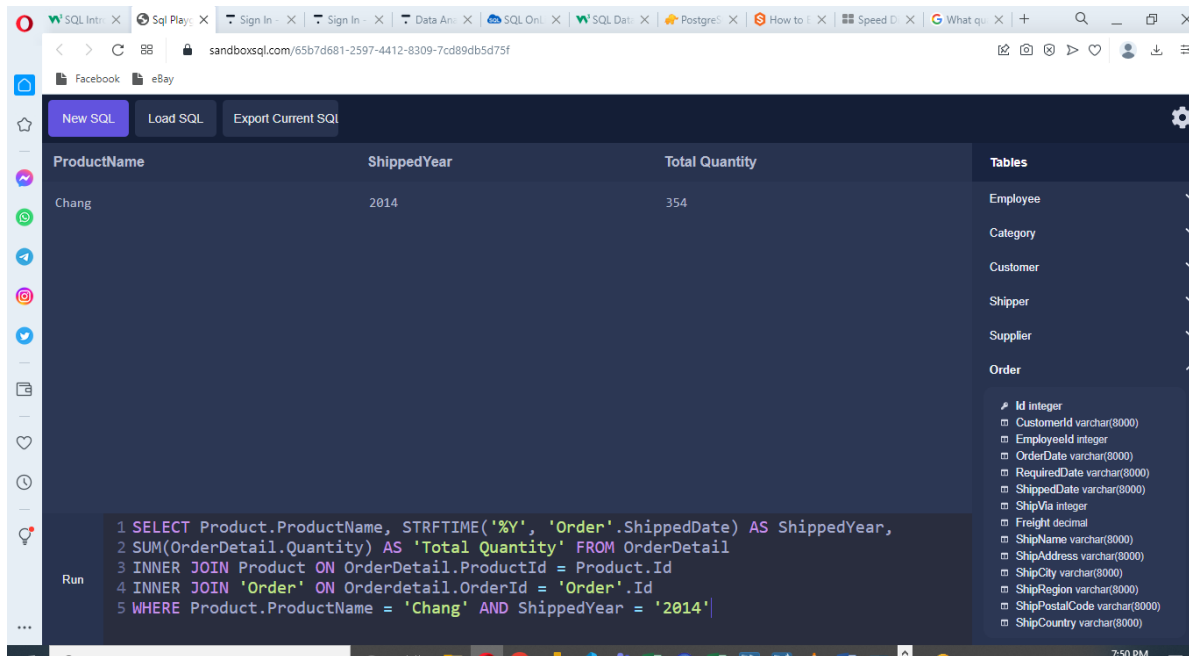
Year	Number Of Orders
2014	270
2013	408
2012	152

Below the table, the SQL query is visible:

```
1 SELECT STRFTIME('%Y',OrderDate) AS Year,  
2 COUNT(Id) AS [Number Of Orders]  
3 FROM 'Order'  
4 GROUP BY Year  
5 ORDER BY Year DESC;
```

The right sidebar shows a list of tables: Employee, Category, Customer, Shipper, Supplier, Order, Product, OrderDetail, CustomerCustomerDemo, CustomerDemographic, Region, Territory, EmployeeTerritory, and EmployeeAndCustomer.

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



The screenshot shows the same web-based SQL IDE interface. The main area displays a table with three columns: 'ProductName', 'ShippedYear', and 'Total Quantity'. The data is as follows:

ProductName	ShippedYear	Total Quantity
Chang	2014	354

Below the table, the SQL query is visible:

```
1 SELECT Product.ProductName, STRFTIME('%Y', 'Order'.ShippedDate) AS ShippedYear,  
2 SUM(OrderDetail.Quantity) AS 'Total Quantity' FROM OrderDetail  
3 INNER JOIN Product ON OrderDetail.ProductId = Product.Id  
4 INNER JOIN 'Order' ON OrderDetail.OrderId = 'Order'.Id  
5 WHERE Product.ProductName = 'Chang' AND ShippedYear = '2014';
```

The right sidebar shows a list of tables, with the 'Order' table selected, displaying its schema:

- Id integer
- CustomerId varchar(8000)
- EmployeeId integer
- OrderDate varchar(8000)
- RequiredDate varchar(8000)
- ShippedDate varchar(8000)
- ShipVia integer
- Freight decimal
- ShipName varchar(8000)
- ShipAddress varchar(8000)
- ShipCity varchar(8000)
- ShipRegion varchar(8000)
- ShipPostalCode varchar(8000)
- ShipCountry varchar(8000)

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

The screenshot shows a web-based SQL IDE interface. The top navigation bar includes buttons for 'New SQL', 'Load SQL', and 'Export Current SQL'. The main area displays a table with the following data:

CompanyName	ShippedYear	Revenue Before Discount	Revenue After Discount	Tables
Plutzer Lebensmittelgroßmärkte AG	2013	65170.02000000002	62187.286000000015	Employee
Gai pâturage	2013	57674.2	54268.83	Category
Pavlova, Ltd.	2013	57176.74999999999	52438.6775	Customer
Aux joyeux ecclésiastiques	2013	54255.600000000006	51038.784999999996	Shipper
G'day, Mate	2013	39919.4	38402.299999999996	Supplier
Pasta Buttini s.r.l.	2013	37036.3	34760.7	Order
Forêts d'érables	2013	32275.8	29854.325000000008	Product
Norske Meierier	2013	27015.199999999997	24470.549999999996	OrderDetail

The SQL query in the editor is:

```
1 SELECT Supplier.CompanyName,
2 STRFTIME('%Y', 'Order'.ShippedDate) AS ShippedYear,
3 SUM(OD.unitprice * OD.Quantity) AS 'Revenue Before Discount',
4 SUM((OD.unitprice * OD.Quantity) - (OD.unitprice * OD.Quantity * OD.Discount))
5 AS 'Revenue After Discount'
6 FROM OrderDetail AS OD
```

The 'Tables' column on the right lists the tables used in the query: Employee, Category, Customer, Shipper, Supplier, Order, Product, OrderDetail, CustomerCustomerDemo, and CustomerDemographic.

The screenshot shows the same web-based SQL IDE interface. The table data remains the same. The SQL query in the editor is now:

```
7 LEFT JOIN 'Order' ON OD.OrderId = 'Order'.Id
8 LEFT JOIN Product ON OD.ProductId = Product.Id
9 LEFT JOIN Supplier ON Product.SupplierId = Supplier.Id
10 WHERE ShippedYear = '2013'
11 GROUP BY 1
12 ORDER BY 3 DESC;
```

The 'Tables' column on the right lists the tables used in the query: Employee, Category, Customer, Shipper, Supplier, Order, Product, OrderDetail, CustomerCustomerDemo, and CustomerDemographic.