NAME:Shivadeepthi SJSUID:009386351

Team Group:20

SQL QUERIES

1. SELECT * FROM Customers

WHERE Country='Venezuela'

AND (City='Caracas' OR City='I. de Margarita');

- select * from Customers, Employees, Shippers, Orders, Order Details, Suppliers, Products, Categories
 where Customer. CustomerID=Orders. CustomerID AND Employees. EmployeeID=Orders. EmployeeID AND
 Shippers. ShipperID=Orders. ShipperID AND Orders. OrderID=Order Details. OrderID AND
 Products. ProductID=Order Details. ProductID AND Products. SupplierID=Supplier. SupplierID
 AND Products. CategoryID=Categories. categoryID limit 1;
- 3. SELECT * from Categories Order By

Categoryname;

4. SELECT Shippers.ShipperName,COUNT(Orders.OrderID) AS NumberOfOrders FROM Orders

LEFT JOIN Shippers

ON Orders.ShipperID=Shippers.ShipperID

GROUP BY ShipperName;

5. SELECT Employees.LastName, COUNT(Orders.OrderID) AS NumberOfOrders FROM (Orders

INNER JOIN Employees

ON Orders.EmployeeID=Employees.EmployeeID)

GROUP BY LastName

HAVING COUNT(Orders.OrderID) <10;

MONGO QUERIES

- db.storeSchema.find({\$and :[{'Country':'Venezuela'}, {City:{\$in:['Caracas','I. de Margarita']}}]});
- db.storeSchema.findOne();
- 3. db.storeSchema.aggregate(

```
{ $unwind: '$OrderDetails' },
```

{\$project:{"OrderDetails.Products.Categories.CategoryID":1,

"OrderDetails.Products.Categories.Categoryname":1,

"OrderDetails.Products.Categories.CategoryDescription":1}},

{ \$sort: {'OrderDetails.Products.Categories.Categoryname': 1}});

4. db.storeSchema.aggregate([

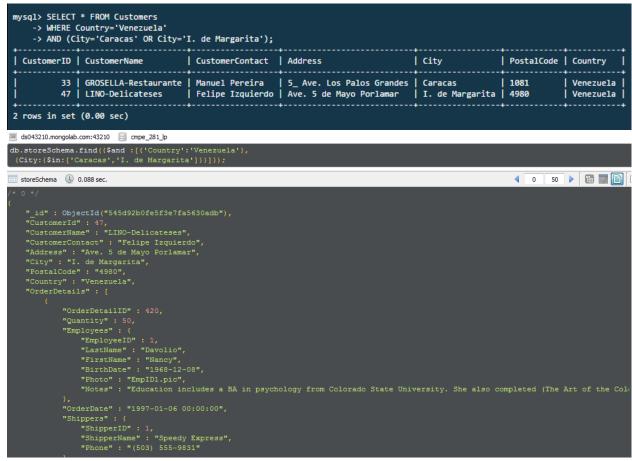
{ \$unwind: '\$OrderDetails' },

{\sqroup:{_id:"\

5. SELECT Employees.LastName, COUNT(Orders.OrderID) AS NumberOfOrders FROM (Orders INNER JOIN Employees

ON Orders.EmployeeID=Employees.EmployeeID)
GROUP BY LastName
HAVING COUNT(Orders.OrderID) <10;

SQL/Mongo QUERY 1.



SQL/MONGO Query 2.

```
| CustomerID | CustomerName | CustomerContact | Address | City | PostalCode | Country | EmployecID | LastName | FirstName | BirthDate | Photo | Notes | | OrderID | CustomerID | EmployecID | OrderDate | ShipperID | OrderDate | ContactName | Address | City | PostalCode | Country | Phone | ProductID | Quantity | SupplierID | SupplierID | CategoryID | CategoryID | CategoryID | CategoryID | CategoryID | ProductID |
```

SQL/MONGO Query 3.

```
db.storeSchema.aggregate(
    "OrderDetails.Products.Categories.Categoryname":1,
"OrderDetails.Products.Categories.CategoryDescription":1}},
                                                                                                           E 🕝 🗈
■ 0.372 sec.
          "OrderDetails" : {
    "Products" : {
                    "CategoryID" : 1,
"Categoryname" : "Beverages"
                   "CategoryID" : 1,
"Categoryname" : "Beverages"
mysql> SELECT * from Categories Order By
     -> Categoryname;
| CategoryID | Categoryname | Description
       1 | Beverages | Soft drinks, coffees, teas, beers, and ales
2 | Condiments | Sweet and savory sauces, relishes, spreads, and seasonings
3 | Confections | Desserts, candies, and sweet breads
             4 | Dairy Products | Cheeses
             5 | Grains/Cereals | Breads, crackers, pasta, and cereal
             6 | Meat/Poultry | Prepared meats
             7 | Produce
                                     | Dried fruit and bean curd
             8 | Seafood
                                    | Seaweed and fish
8 rows in set (0.00 sec)
```

```
mysql> SELECT Shippers.ShipperName,COUNT(Orders.OrderID) AS NumberOfOrders FROM Orders
   -> LEFT JOIN Shippers
   -> ON Orders.ShipperID=Shippers.ShipperID
   -> GROUP BY ShipperName;
+-----
| ShipperName | NumberOfOrders |
| Federal Shipping | 9 |
| Speedy Express | 4 |
| United Package | 3 |
3 rows in set (0.00 sec)
 db.storeSchema.aggregate([
 { $unwind: '$OrderDetails' },
 {$group:{_id:"$OrderDetails.Shippers.ShipperName",NumberOfOrders:{$sum:1}}}]);
 16.508 sec.
             " id" : "United Package",
              "NumberOfOrders": 4
              "_id" : "Speedy Express",
              "NumberOfOrders": 3
              "_id" : "Federal Shipping",
              "NumberOfOrders": 16
     "ok" : 1
```

SQL/MONGO Query 5.

```
mysql> SELECT Employees.LastName, COUNT(Orders.OrderID) AS NumberOfOrders FROM (Orders
   -> INNER JOIN Employees
   -> ON Orders.EmployeeID=Employees.EmployeeID)
   -> GROUP BY LastName
   -> HAVING COUNT(Orders.OrderID) <10;
| LastName | NumberOfOrders |
+----+
                     3 |
| Callahan |
Davolio
                      3 I
Fuller
                      2 |
King
                      2 |
| Leverling |
                      2
                      2
Peacock
Suyama
                      2 |
7 rows in set (0.01 sec)
```

```
① 0.118 sec.
```

Name:Minu

SJSUID:009347221

Team Group:20

- select * from Customers where (Country='France') AND (CustomerContact='Janine Labrune') AND (CustomerID>10 OR PostalCode='4400');
- select c.CustomerId,c.CustomerName,c.CustomerContact,c.Address,c.City,c.PostalCode,c.Country,
 o.OrderDate,od.Quantity,p.ProductName,p.Unit,p.Price from Customers c,Orders o,OrderDetails
 od,Products p
 where c.CustomerID=o.CustomerID AND o.OrderID=od.OrderID AND od.ProductID=p.ProductID
 limit 5;
- 3. SELECT * from Customers Order By

CustomerName;

4. Select Categories.Categoryname,Count(Products.ProductID) As NumberOfProducts From Products LEFT JOIN Categories

ON Products.CategoryID=Categories.CategoryID

GROUP By Categoryname;

5. SELECT Customers.CustomerID, COUNT(OrderDetails.OrderDetailID)

AS NumberOfProducts FROM (Orders INNER JOIN Customers ON

Orders.CustomerID=Customers.CustomerID)

INNER JOIN OrderDetails ON Orders.OrderID=OrderDetails.OrderID GROUP BY CustomerID HAVING COUNT(OrderDetails.OrderDetailID) < 10;

MONGO QUERIES

db.storeSchema.find({

```
Country:'France',
CustomerContact:'Janine Labrune',
$or: [ {CustomerId: { $gt: 10}}, {PostcalCode:'44000'}]
});
```

2. db.storeSchema.find({}, { CustomerId: 1, CustomerName: 1, CustomerContact: 1,

Address: 1,City: 1,PostalCode: 1,Country: 1,"OrderDetails.OrderDate": 1,"OrderDetails.Quantity": 1, "OrderDetails.Products.Products.Products.Products.Products.Units":

1,"OrderDetails.Products.price": 1,_id:0}).limit(5);

3. db.storeSchema.find({}, { CustomerId: 1, CustomerName: 1, CustomerContact: 1,

Address: 1,City: 1,PostalCode: 1,Country: 1,_id:0}).sort({CustomerName:+1});

4. db.storeSchema.aggregate([

{ \$unwind: '\$OrderDetails' },

db.storeSchema.aggregate([

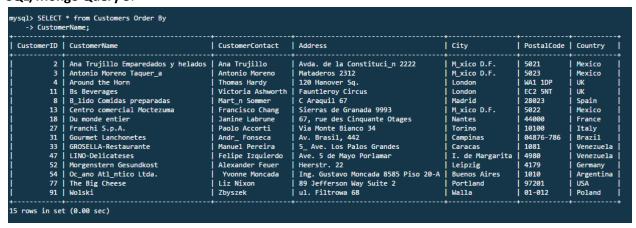
```
{ $unwind: '$OrderDetails' },
{$group:{_id:"$CustomerId",NumberOfProducts:{$sum:1}}},
{$match:{NumberOfProducts:{$lt:10}}}});
```

SQL/MONGO Query1.

SQL/MONGO Query2.

```
db.storeSchema.find({{}}, { CustomerId: 1, CustomerName: 1, CustomerContact: 1,
Address: 1,City: 1,PostalCode: 1,Country: 1,"OrderDetails.OrderDate": 1,"OrderDetails.Quantity": 1,
"OrderDetails.Products.ProductName": 1, "OrderDetails.Products.units": 1,"OrderDetails.Products.price" : 1,_id:0} ).limit(5)
  storeSchema 0.094 sec.
                                                                                                        4 0 50 ▶ 📳 📝
   "CustomerId" : 11,
"CustomerName" : "Bs Beverages",
"CustomerContact" : "Victoria Ashworth",
"Address" : "Fauntleroy Circus",
    "City" : "London",
"PostalCode" : "EC2 5NT",
"Country" : "UK",
           "Quantity" : 30,
"OrderDate" : "1996-08-26 00:00:00",
              "ProductName": "Aniseed Syrup",
"units": "12 - 550 ml bottles",
"price": 10
           "Quantity" : 9,
"OrderDate" : "1996-08-26 00:00:00",
               "ProductName" : "Wimmers gute Semmelknödel",
"units" : "20 bags x 4 pieces",
"price" : 33.25
tomerName | CustomerContact | Address
| Unit | Price |
                                                                             | PostalCode | Country | OrderDate
 uctName
                                 | Price |
 +-----
                                                                                                                       10 | Sir
                                                                                                                      1 | Grav
10 | Th_r
                                                                                                                       4 | Mozz
                                                                                                                       20 | R ss
5 rows in set (0.01 sec)
```

SQL/Mongo Query 3.



SQL/Mongo Query 4.

```
mysql> Select Categories.Categoryname,Count(Products.ProductID) As NumberOfProducts From Products LEFT JOIN Categories
   -> ON Products.CategoryID=Categories.CategoryID
   -> GROUP By Categoryname;
| Categoryname | NumberOfProducts |
 -----
            Beverages
                           2 |
5 |
5 |
 Condiments
 Confections
| Dairy Products |
                           4
 Grains/Cereals
 Meat/Poultry
                            1 |
 Produce
                            2 |
 Seafood
                            3 |
8 rows in set (0.00 sec)
```

SQL/Mongo Query 5.

```
mysql> SELECT Customers.CustomerID, COUNT(OrderDetails.OrderDetailID)
   -> AS NumberOfProducts FROM (Orders INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID)
   -> INNER JOIN OrderDetails ON Orders.OrderID=OrderDetails.OrderID GROUP BY CustomerID HAVING
   -> COUNT(OrderDetails.OrderDetailID) < 10;
+-----
| CustomerID | NumberOfProducts |
          2 |
          3 j
                            1 |
          4 |
                            5 |
          8
         11 I
                            2
         13 I
                            2
         27
                            1
                            2
         31
         33 |
         47
                            1 |
         52
                            2 |
         54
                            2 |
         91 |
                            2 |
13 rows in set (0.00 sec)
```

"NumberOfProducts": 3

"NumberOfProducts": 1

Name: Laxmi Phalak

SJSU ID: 009394671

Team Group:20

SQL Queries:

- SELECT * FROM Customers WHERE Country='Mexico' AND (CustomerID=11 OR CustomerID=13 OR CustomerID=18);
- SELECT o.OrderDate, od.Quantity, c.CustomerName, c.Country, p.ProductName, p.Price FROM Orders o, Customers c, OrderDetails od, Products p WHERE o.CustomerID=c.CustomerID and o.OrderID=od.OrderID and od.ProductID=p.ProductID AND ProductName like 'Aniseed%' AND c.Country='UK';
- 3. SELECT * FROM Shippers ORDER BY ShipperName;

- 4. Select Suppliers.SupplierName,Count(Products.ProductID) As NumberOfProducts From Products LEFT JOIN Suppliers ON Products.SupplierID=Suppliers.SupplierID GROUP BY SupplierName;
- 5. SELECT ShipperID, COUNT(OrderID) AS NumberOfProducts FROM Orders GROUP BY ShipperID HAVING COUNT(OrderID) < 100;

Mongo DB Queries:

- 1. db.storeSchema.find({\$and:[{'Country':'Mexico'}, {CustomerId:{\$in:[11,13,18]}}]});
- db.storeSchema.findOne({\$and :[{'Country':'UK'}]});
- db.storeSchema.aggregate(

```
{ $unwind: '$OrderDetails' },

{$project:{"OrderDetails.Shippers.ShipperID":1,

"OrderDetails.Shippers.ShipperName":1,

"OrderDetails.Shippers.Phone":1}},

{ $sort: {'OrderDetails.Shippers.ShipperName': 1}});
```

4. db.storeSchema.aggregate([

```
{ $unwind: '$OrderDetails' },
{$group:{ id:"$OrderDetails.Products.Suppliers.SupplierName",NumberOfProducts:{$sum:1}}}]);
```

5. db.storeSchema.aggregate([

```
{ $unwind: '$OrderDetails' },
{$group:{_id:"$OrderDetails.Shippers.ShipperId",NumberOfProducts:{$sum:1}}},
{$match:{NumberOfProducts:{$lt:100}}}]);
```

Screenshots:

Query 1:

MySQL

MongoDB

Query 2:

Query 3:

MongoDB

Query 4:

```
mysql> Select Suppliers.SupplierName,Count(Products.ProductID) As NumberOfProducts From Products LEFT JOIN Suppliers ON Products.SupplierID=Suppliers.SupplierI
D GROUP BY SupplierName;
                                           | NumberOfProducts |
| Aux joyeux eccl_siastiques
| Bigfoot Breweries
                                                                 2 |
 Cooperativa de Quesos 'Las Cabras'
 Escargots Nouveaux
 Exotic Liquid
                                                                 3 |
2 |
3 |
3 |
3 |
3 |
3 |
3 |
 For_ts d'_rables
 Formaggi Fortini s.r.l.
 G'day, Mate
Gai p_turage
 Grandma Kelly's Homestead
Heli S_waren GmbH & Co. KG
 Karkki Oy
Leka Trading
 Lyngbysild
Ma Maison
 Mayumi's
  New England Seafood Cannery
```

Query 5: