**Assignment 5**

**19UCS081 Shruti Goyal**

**Creating database**

create database coffee\_store;

use coffee\_store;

create table products(

productID int primary key auto\_increment,

Name varchar(30),

Price decimal(3,2),

CoffeeOrigin varchar(30)

);

create table customers(

customerID int primary key auto\_increment,

First\_Name varchar(30),

Last\_Name varchar(30),

Gender enum('M','F'),

ContactNumber decimal(11,0)

);

create table orders(

orderID int primary key auto\_increment,

productID int,

customerID int,

Date\_Time datetime,

constraint FK\_ProductOrder

foreign key (productID) references products(productID),

constraint FK\_CustomerOrder

foreign key (customerID) references customers(customerID)

);

insert into products (Name,Price,CoffeeOrigin)

values

('Espresso', 2.50, 'Brazil'),

('Machhiato', 3.00, 'Brazil'),

('Cappuccino', 3.50, 'CostaRica'),

('Latte', 3.50, 'Indonesia'),

('Americano', 3.00, 'Brazil'),

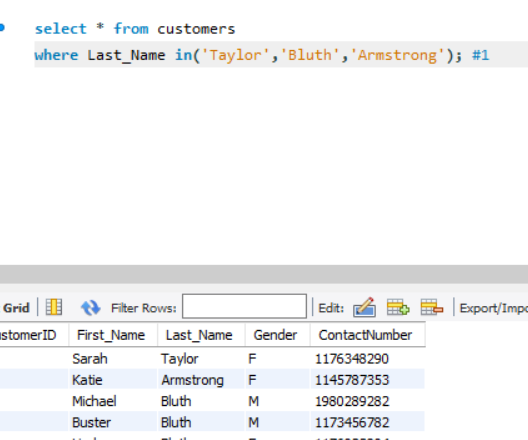
('Flat White', 3.50, 'Brazil'),

('Filter', 3.00, 'India');

INSERT INTO customers (First\_Name, Last\_Name, Gender, ContactNumber) VALUES ('Chris','Martin','M','01123147789'),('Emma','Law','F','01123439899'),('Mark','Watkins','M','01174592013'),('Daniel','Williams','M',NULL),('Sarah','Taylor','F','01176348290'),('Katie','Armstrong','F','01145787353'),('Michael','Bluth','M','01980289282'),('Kat','Nash','F','01176987789'),('Buster','Bluth','M','01173456782'),('Charlie',NULL,'F','01139287883'),('Lindsay','Bluth','F','01176923804'),('Harry','Johnson','M',NULL),('John','Smith','M','01174987221'),('John','Taylor','M',NULL),('Emma','Smith','F','01176984116'),('Gob','Bluth','M','01176985498'),('George','Bluth','M','01176984303'),('Lucille','Bluth','F','01198773214'),('George','Evans','M','01174502933'),('Emily','Simmonds','F','01899284352'),('John','Smith','M','01144473330'),('Jennifer',NULL,'F',NULL),('Toby','West','M','01176009822'),('Paul','Edmonds','M','01966947113');

INSERT INTO orders (productID,customerID,Date\_Time) VALUES (1,1,'2017-01-01 08-02-11'),(1,2,'2017-01-01 08-05-16'),(5,12,'2017-01-01 08-44-34'),(3,4,'2017-01-01 09-20-02'),(1,9,'2017-01-01 11-51-56'),(6,22,'2017-01-01 13-07-10'),(1,1,'2017-01-02 08-03-41'),(3,10,'2017-01-02 09-15-22'),(2,2,'2017-01-02 10-10-10'),(3,13,'2017-01-02 12-07-23'),(1,1,'2017-01-03 08-13-50'),(7,16,'2017-01-03 08-47-09'),(6,21,'2017-01-03 09-12-11'),(5,22,'2017-01-03 11-05-33'),(4,3,'2017-01-03 11-08-55'),(3,11,'2017-01-03 12-02-14'),(2,23,'2017-01-03 13-41-22'),(1,1,'2017-01-04 08-08-56'),(3,10,'2017-01-04 11-23-43'),(4,12,'2017-01-05 08-30-09'),(7,1,'2017-01-06 09-02-47'),(3,18,'2017-01-06 13-23-34'),(2,16,'2017-01-07 09-12-39'),(2,14,'2017-01-07 11-24-15'),(4,5,'2017-01-08 08-54-11'),(1,1,'2017-01-09 08-03-11'),(6,20,'2017-01-10 10-34-12'),(3,3,'2017-01-10 11-02-11'),(4,24,'2017-01-11 08-39-11'),(4,8,'2017-01-12 13-20-13'),(1,1,'2017-01-14 08-27-10'),(4,15,'2017-01-15 08-30-56'),(1,7,'2017-01-16 10-02-11'),(2,10,'2017-01-17 09-50-05'),(1,1,'2017-01-18 08-22-55'),(3,9,'2017-01-19 09-00-19'),(7,11,'2017-01-19 11-33-00'),(6,12,'2017-01-20 08-02-21'),(3,14,'2017-01-21 09-45-50'),(5,2,'2017-01-22 10-10-34'),(6,24,'2017-01-23 08-32-19'),(6,22,'2017-01-23 08-45-12'),(6,17,'2017-01-23 12-45-30'),(2,11,'2017-01-24 08-01-27'),(1,1,'2017-01-25 08-05-13'),(6,11,'2017-01-26 10-49-10'),(7,3,'2017-01-27 09-23-57'),(7,1,'2017-01-27 10-08-16'),(3,18,'2017-01-27 10-13-09'),(4,19,'2017-01-27 11-02-40'),(3,10,'2017-01-28 08-03-21'),(1,2,'2017-01-28 08-33-28'),(1,12,'2017-01-28 11-55-33'),(1,13,'2017-01-29 09-10-17'),(6,6,'2017-01-30 10-07-13'),(1,1,'2017-02-01 08-10-14'),(2,14,'2017-02-02 10-02-11'),(7,10,'2017-02-02 09-43-17'),(7,20,'2017-02-03 08-33-49'),(4,21,'2017-02-04 09-31-01'),(5,22,'2017-02-05 09-07-10'),(3,23,'2017-02-06 08-15-10'),(2,24,'2017-02-07 08-27-26'),(1,1,'2017-02-07 08-45-10'),(6,11,'2017-02-08 10-37-10'),(3,13,'2017-02-09 08-58-18'),(3,14,'2017-02-10 09-12-40'),(5,4,'2017-02-10 11-05-34'),(1,2,'2017-02-11 08-00-38'),(3,8,'2017-02-12 08-08-08'),(7,20,'2017-02-12 09-22-10'),(1,1,'2017-02-13 08-37-45'),(5,2,'2017-02-13 12-34-56'),(4,3,'2017-02-14 08-22-43'),(5,4,'2017-02-14 09-12-56'),(3,5,'2017-02-15 08-09-10'),(6,7,'2017-02-15 09-05-12'),(1,8,'2017-02-15 09-27-50'),(2,9,'2017-02-16 08-51-12'),(3,10,'2017-02-16 13-07-46'),(4,11,'2017-02-17 08-03-55'),(4,12,'2017-02-17 09-12-11'),(5,10,'2017-02-17 11-41-17'),(6,18,'2017-02-17 13-05-56'),(7,19,'2017-02-18 08-33-27'),(1,17,'2017-02-19 08-12-31');

**Query -1**

**Find the list of customers whose last name is Taylor or Bluth or Armstrong. (Use IN)**

select \* from customers

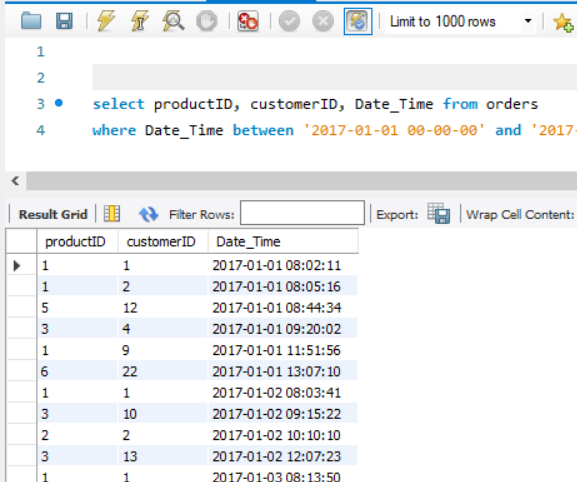
where Last\_Name in('Taylor','Bluth','Armstrong');

**2. Find the list of customers whose first name is not Katie or John or George. (Use NOT IN)**

select \* from customers

where First\_Name not in('Katie','John','George');

**3. Find out the order details (productID, customerID, Date\_Time) which are placed between ‘2017-01-01’ to ‘2017-01-07’.**

****select productID, customerID, Date\_Time from orders

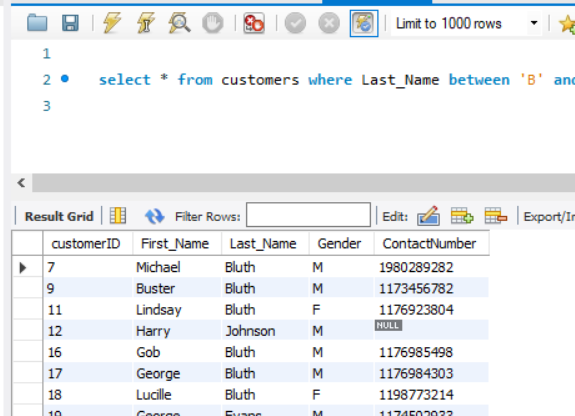
where Date\_Time between '2017-01-01 00-00-00' and '2017-01-07 23-59-59' ;

**4. List the order details of customers with customersID between 5 and 10.**

select \* from customers

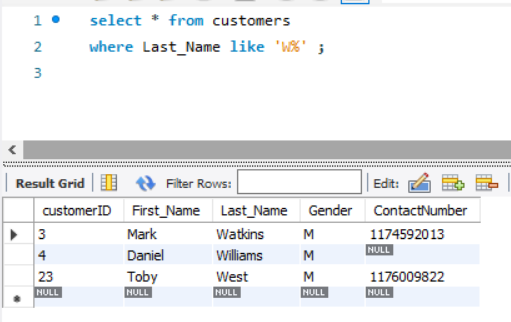
where customerID between 5 and 10;

**5. Find out the list of customers whose last name should start with any alphabet between A and L.**



select \* from customers where Last\_Name between 'B' and 'L';

**6. Find out the list of customers whose last name should start with ‘W’.**

select \* from customers

where Last\_Name like 'W%' ;

**7. Find out the list of customers whose last name should end with ‘o’.**

**select \* from customers**

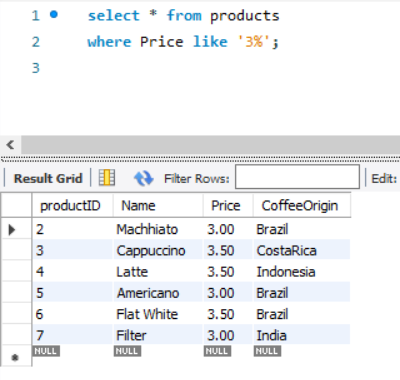
where Last\_Name like '%o';

**8. Find out the list of customers who have alphabet ‘o’ in their first name.**

select \* from customers

where First\_Name like '%o%';

**9. Find out the product details whose price is starting with 3.**



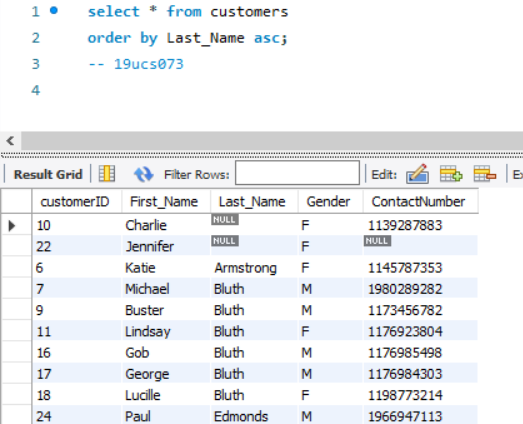
select \* from products

where Price like '3%';

**10. List the products with ascending order of their price.**

select \* from products

order by Price asc;

 **11. List the customers with ascending order of their last name (starting with A to Z).**

select \* from customers

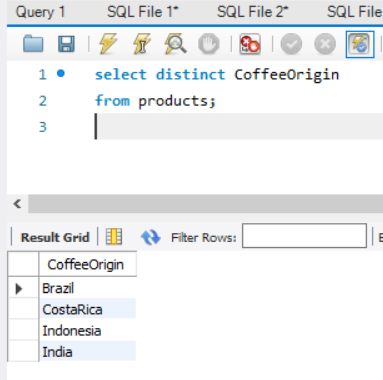
order by Last\_Name asc;

**12. Find out the orders placed by customer with customerID ‘1’ and list his orders from most recent order to oldest order.**

select \* from orders

where customerID=1 order by Date\_Time desc;

**13. Find out the distinct list of countries whose coffee product is there in the coffee\_store.**



select distinct CoffeeOrigin

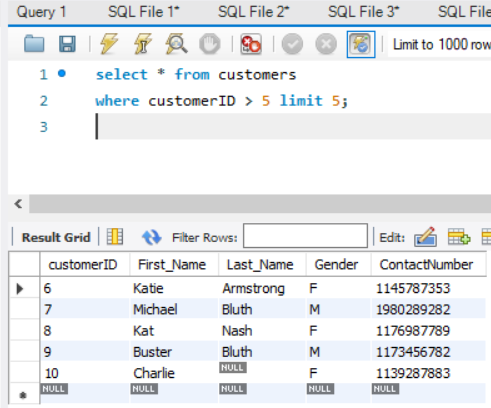
from products;

**14. Find out how many distinct customers (customer id) have placed their order from 2017- 02-01 to 2017-02-28**

select distinct customerID from orders

where Date\_Time between '2017-02-01 00-00-00' and '2017-02-28 23-59-59';

**15. Find out the 5 customers with customer id starting from 6.**



select \* from customers

where customerID > 5 limit 5;

**16. List out top 10 customers ordered by their last name.**

select \* from customers

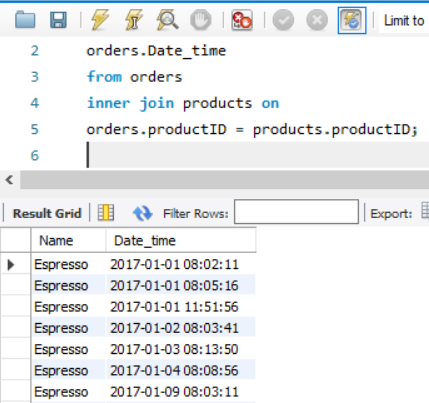
order by Last\_Name limit 10 ;

**17. From the products table, select the Name, Price, and Coffee Origin but rename the Name as Product Name and CoffeeOrigin as Country in the result set.**

select Name as ProductName, Price, CoffeeOrigin as Country

from products;

**18. Find out the name of all the products along with their order date and time information whose order is placed by all the customers.**

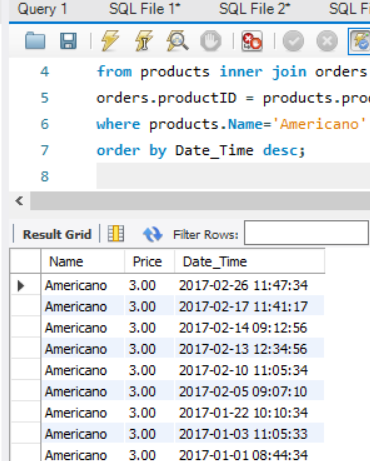
select products.Name,

orders.Date\_time

from orders

inner join products on

orders.productID = products.productID;

**19. Find out the newest to oldest orders placed for the product ‘Americano’. Display the product** **name, price, order data and time for these orders.**

select products.Name,

products.Price,

orders.Date\_Time

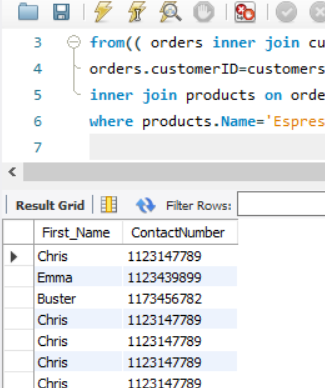
from products inner join orders on

orders.productID = products.productID

where products.Name='Americano'

order by Date\_Time desc;

**20. List out the first name and contact numbers of the customers who have placed order for product ‘Espresso’.**

select customers.First\_Name,

customers.ContactNumber

from(( orders inner join customers on

orders.customerID=customers.customerID)

inner join products on orders.productID = products.productID)

where products.Name='Espresso';

**21. Find out the order ID, first name, last name, contact number, and order time of top 10 most recent to oldest orders.**

select orders.orderID,

customers.First\_Name,

customers.Last\_Name,

customers.ContactNumber,

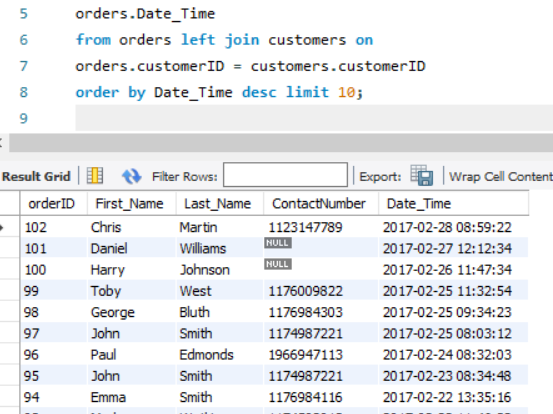
orders.Date\_Time

from orders inner join customers on

orders.customerID = customers.customerID

order by Date\_Time desc limit 10;

**22. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use orders table as left table)**

**update orders set customerID = null where orderID=1;**

select orders.orderID,

customers.First\_Name,

customers.Last\_Name,

customers.ContactNumber,

orders.Date\_Time

from orders left join customers on

orders.customerID = customers.customerID

order by Date\_Time desc limit 10;

**23. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use customers table as left table)**

select orders.orderID,

customers.First\_Name,

customers.Last\_Name,

customers.ContactNumber,

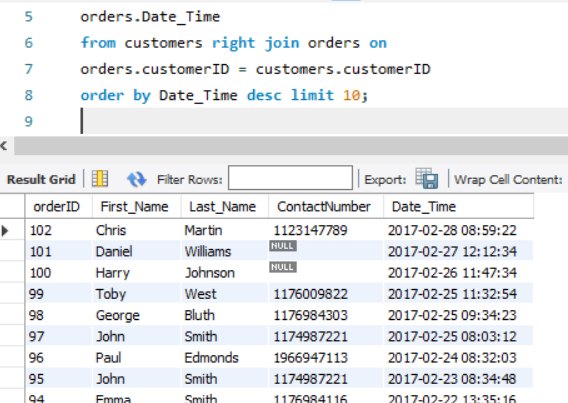
orders.Date\_Time

from customers left join orders on

orders.customerID = customers.customerID

order by Date\_Time desc limit 10;

**24. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use orders table as left table)**



select orders.orderID,

customers.First\_Name,

customers.Last\_Name,

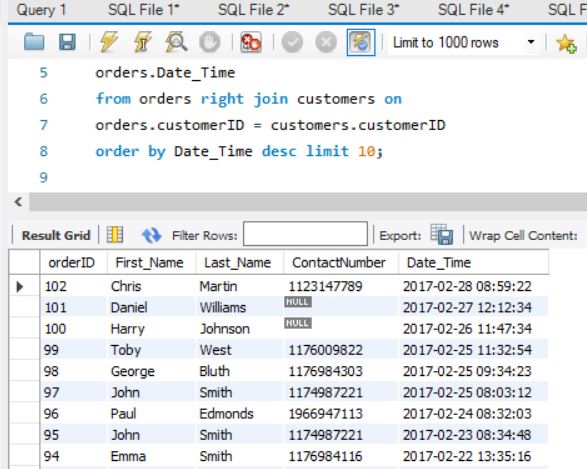
customers.ContactNumber,

orders.Date\_Time

from customers right join orders on

orders.customerID = customers.customerID

order by Date\_Time desc limit 10;

**25. Find out the order ID, first name, last name, contact number, and order time of top 10 oldest to newest orders. (Use customers table as left table) (Observe the results for both these queries to know the working of right join) Again update the orders table using below query update orders set customerID=1 where orderID=1;**

select orders.orderID,

customers.First\_Name,

customers.Last\_Name,

customers.ContactNumber,

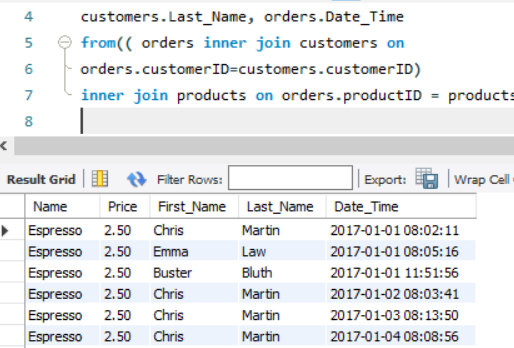
orders.Date\_Time

from orders right join customers on

orders.customerID = customers.customerID

order by Date\_Time desc limit 10;

**26. Find out the details of the orders with name of the products, product price, first and last names of customers who have purchased them with the order date and time information.**

update orders set customerID = 1 where orderID=1;

select products.Name,products.Price,customers.First\_Name,

customers.Last\_Name, orders.Date\_Time

from(( orders inner join customers on

orders.customerID=customers.customerID)

inner join products on orders.productID = products.productID);

**27. Find out the newest to oldest orders placed by the customer whose last name is ‘Martin’. List the name of the product, price, first name, last name, and order date and time.**

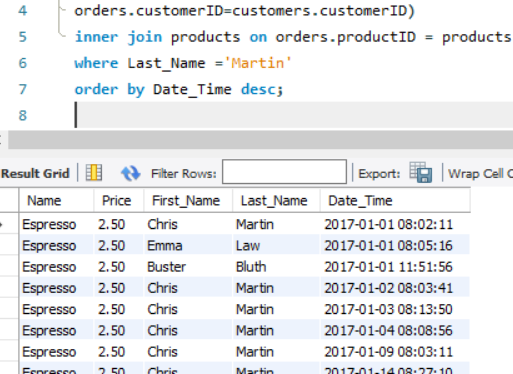
select products.Name,products.Price,customers.First\_Name,

customers.Last\_Name, orders.Date\_Time

from(( orders inner join customers on

orders.customerID=customers.customerID)

inner join products on orders.productID = products.productID)

where Last\_Name ='Martin'

order by Date\_Time desc;