SQL ASSIGNMENT - 1

create table customers (custId int primary key not null,

custName varchar(10), city varchar(10) );

Insert below data:

insert into customers values

(1,"Rupa", "Hyderabad"),

(2, "Sudha", "Hyderabad"),

(3, "Vinay", "Chennai"),

(4, "Sruthi", "Vijayawada"),

(5, "Madhu", "Chennai"),

(6, "Gita", "Hyderabad");

create table orders (oid int primary key not null, cId int ,

odate date, foreign key (cId) references customers

(custId ));

Insert data like this:

insert into orders values

(22,3,'2018-07-15'),

(23,1,'2018-07-16'),

(24,1,'2018-07-17'),

(25,2,'2018-07-19'),

(26,4,'2018-07-20'),

(27,5,'2018-07-20'),

(28,5,'2018-07-12');

Use the above data to answer the following questions:

Note – Please provide your outputs along with the

solutions.

1. Select all the customers who have placed orders.

2. Display num of orders placed by each customer.

3. Select all the customers who have placed more than 1 order

4. Select all the customers who did not place any order

5. Display customer names who have made a purchase

on July 20 th

6. Select all the customers who made purchases after

July 12 th and before July 18 th

7. Select all the customer who did not purchase on these

days - 12 th and 18 th .

Answers

1. Select all the customers who have placed orders.

Query:

select custId, custName, oid from customers cjoin orders o on (c.custId = o.cId);

Output:

| **custId** | **custName** | **oid** |
| --- | --- | --- |
| 1 | Rupa | 23 |
| 1 | Rupa | 24 |
| 2 | Sudha | 25 |
| 3 | Vinay | 22 |
| 4 | Sruthi | 26 |
| 5 | Madhu | 27 |
| 5 | Madhu | 28 |

2. Display num of orders placed by each customer.

Query :

select cId, count(\*) as num\_orders from ordersgroup by cId;

Output:

| **cId** | **num\_orders** |
| --- | --- |
| 1 | 2 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 2 |
|  |  |

3. Select all the customers who have placed more than 1 order

Query:

select cId, count(\*) as num\_orders from orders group by cId having num\_orders > 1;

Output :

| **cId** | **num\_orders** |
| --- | --- |
| 1 | 2 |
| 5 | 2 |

4. Select all the customers who did not place any order

Query :

select C.custName FROM customers C LEFT JOIN orders O ON C.custId = O.cId WHERE O.Cid is NULL

Output :

| **custName** |
| --- |
| Gita |

5. Display customer names who have made a purchase

on July 20 th

Query :

select c.custId,c.custName from customers c join orders o on ( c.custId = o.cId) and o.odate = '2018-07-20';

Output:

| **custId** | **custName** |
| --- | --- |
| 4 | Sruthi |
| 5 | Madhu |

6. Select all the customers who made purchases after

July 12 th and before July 18 th

Query :

select c.custId,c.custName from customers c join orders o on ( c.custId = o.cId) and o.odate > '2018-07-12' and o.odate < '2018-07-18';

output:

| **custId** | **custName** |
| --- | --- |
| 3 | Vinay |
| 1 | Rupa |
| 1 | Rupa |