**SQL ASSIGNMENT – 1**

#create database datafolkz;

#use datafolkz;

Create table customers (custId int primary key not null, custName varchar(10), city varchar(10));

Insert into customers values (1,"Rupa", "Hyderabad"), (2, "Sudha", "Hyderabad"), (3, "Vinay", "Chennai"), (4, "Sruthi", "Vijayawada"), (5, "Madhu", "Chennai"), (6, "Gita", "Hyderabad");

Select \* from customers;

Describe customers;

**Results: -**

|  |
| --- |
|  |

Query #2 **Execution time: 8ms**

| **custId** | **custName** | **city** |
| --- | --- | --- |
| 1 | Rupa | Hyderabad |
| 2 | Sudha | Hyderabad |
| 3 | Vinay | Chennai |
| 4 | Sruthi | Vijayawada |
| 5 | Madhu | Chennai |
| 6 | Gita | Hyderabad |
|  |  |  |
|  |  |  |

Query #**Execution time: 1ms**

| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| --- | --- | --- | --- | --- | --- |
| custId | int(11) | NO | PRI | null |  |
| custName | varchar(10) | YES |  | null |  |
| city | varchar(10) | YES |  | null |  |

Create table orders (oid int primary key not null, cId int, odate date, foreign key (cId) references customers(custId));

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');

select \* from orders;

describe orders;

Query #5 **Execution time: 0ms**

| **oid** | **cId** | **odate** |
| --- | --- | --- |
| 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 |
|  |  |  |

Query #6 **Execution time: 0ms**

| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| --- | --- | --- | --- | --- | --- |
| oid | int(11) | NO | PRI | null |  |
| cId | int(11) | YES | MUL | null |  |
| odate | date | YES |  | null |  |

**# Q-1. Select all the customers who have placed orders.**

select distinct(c.custId), c.custName from customers c, orders o where c.custId = o.cId;

# OR

select distinct(c.custId), c.custName, c.city from customers c inner join orders o on c.custID = o.cId;

/\* **Output :**

1 Rupa Hyderabad

2 Sudha Hyderabad

3 Vinay Chennai

4 Sruthi Vijayawada

5 Madhu Chennai

\*/

 #7 **Execution time: 0ms**

| **custId** | **custName** |
| --- | --- |
| 1 | Rupa |
| 2 | Sudha |
| 3 | Vinay |
| 4 | Sruthi |
| 5 | Madhu |
|  |  |

| **custId** | **custName** | **city** |
| --- | --- | --- |
| 1 | Rupa | Hyderabad |
| 2 | Sudha | Hyderabad |
| 3 | Vinay | Chennai |
| 4 | Sruthi | Vijayawada |
| 5 | Madhu | Chennai |

**# Q-2. Display num of orders placed by each customer.**

select c.custId, c.custName,count(o.cId)as no\_of\_orders from customers c left join orders o ON c.custId=o.cId group by c.custId

/\* **Output :**

1 Rupa 2

2 Sudha 1

3 Vinay 1

4 Sruthi 1

5 Gita 0

\*/

**e: 1ms**

| **custId** | **custName** | **no\_of\_orders** |
| --- | --- | --- |
| 1 | Rupa | 2 |
| 2 | Sudha | 1 |
| 3 | Vinay | 1 |
| 4 | Sruthi | 1 |
| 5 | Madhu | 2 |
| 6 | Gita | 0 |

**# Q-3. Select all the customers who have placed more than 1 order.**

select c.custId, c.custName, count(c.custId) from customers c ,orders o where c.custId = o.cId group by c.custId, c.custName having count(c.custId) > 1;

#OR

select c.custId,c.custName,count(o.cId)as no\_of\_orders from customers c left join orders o ON c.custId=o.cId group by c.custId having count(o.cId)>1;

/\* **Output :**

1 Rupa 2

5 Madhu 2

\*

uery #7 **Execution time: 1ms**

| **custId** | **custName** | **count(c.custId)** |
| --- | --- | --- |
| 1 | Rupa | 2 |
| 5 | Madhu | 2 |

**# Q-4. Select all the customers who did not place any order**

select custId, custName, city FROM customers WHERE custId NOT IN (SELECT cId FROM orders);

#OR

select c.custId, c.custName, count(o.cId)as no\_of\_orders from customers c left join orders o ON c.custId=o.cId group by c.custId having count(o.cId)=0;

/\* **Output :**

6 Gita Hyderabad

\*/

#OR

/\* **Output :**

6 Gita 0

\*/

y #8 **Execution time: 0ms**

| **custId** | **custName** | **city** |
| --- | --- | --- |
| 6 | Gita | Hyderabad |
|  |  |  |

uery #8 **Execution time: 0ms**

| **custId** | **custName** | **no\_of\_orders** |
| --- | --- | --- |
| 6 | Gita | 0 |

**# Q-5. Display customer names who have made a purchase on July 20th.**

select c.custName, o.odate FROM customers c, orders o WHERE c.custId = o.cId and DATE\_FORMAT(o.odate, '%M %D') = 'July 20th';

#OR

select c.custId, c.custName, o.odate from customers c left join orders o on c.custId=o.cId where o.odate like"%07-20";

/\* **Output :**

Sruthi 2018-07-20

Madhu 2018-07-20

\*/

#OR

/\* **Output :**

4 Sruthi 2018-07-20

5 Madhu 2018-07-20

\*/

|  |  |
| --- | --- |
| Sruthi | 2018-07-20 |
| Madhu | 2018-07-20 |

| **custId** | **custName** | **odate** |
| --- | --- | --- |
| 4 | Sruthi | 2018-07-20 |
| 5 | Madhu | 2018-07-20 |

**# Q-6. Select all the customers who made purchases after July 12th and before July 18th.**

SELECT c.custName, o.odate FROM customers c, orders o WHERE c.custId = o.cId and DATE\_FORMAT(o.odate, '%M %D') > 'July 12th' and DATE\_FORMAT(o.odate, '%M %D') < 'July 18th';

# OR

select c.custId,c.custName,o.odate from customers c left join orders o on c.custId=o.cId where date\_format(o.odate,"%m-%d") between "07-13" AND "07-17" order by o.odate;

/\* **Output:**

Rupa 2018-07-16

Rupa 2018-07-17

Vinay 2018-07-15

\*/

# OR we can fetch like below as well

/\*

3 Vinay 2018-07-15

1 Rupa 2018-07-16

1 Rupa 2018-07-15

\*/

| **custName** | **odate** |
| --- | --- |
| Rupa | 2018-07-16 |
| Rupa | 2018-07-17 |
| Vinay | 2018-07-15 |

| **custId** | **custName** | **odate** |
| --- | --- | --- |
| 3 | Vinay | 2018-07-15 |
| 1 | Rupa | 2018-07-16 |
| 1 | Rupa | 2018-07-17 |

**# Q-7. Select all the customer who did not purchase on these days - 12th and 18th.**

SELECT c.custName, o.odate FROM customers c, orders o WHERE c.custId = o.cId and DATE\_FORMAT(o.odate, '%M %D') != 'July 12th' and DATE\_FORMAT(o.odate, '%M %D') != 'July 18th';

#OR

Select c.custId, c.custName, o.odate from customers c left join orders o on c.custId=o.cId where date\_format(o.odate,"%d") not in (12,18);

/\* **Output :**

Rupa 2018-07-16

Rupa 2018-07-17

Sudha 2018-07-19

Vinay 2018-07-15

Sruthi 2018-07-20

Madhu 2018-07-20

# OR we can fetch by below as well

1 Rupa 2018-07-16

1 Rupa 2018-07-17

2 Sudha 2018-07-19

3 Vinay 2018-07-15

4 Sruthi 2018-07-20

5 Madhu 2018-07-20

\*/

| **custName** | **odate** |
| --- | --- |
| Rupa | 2018-07-16 |
| Rupa | 2018-07-17 |
| Sudha | 2018-07-19 |
| Vinay | 2018-07-15 |
| Sruthi | 2018-07-20 |
| Madhu | 2018-07-20 |
|  |  |

| **custId** | **custName** | **odate** |
| --- | --- | --- |
| 1 | Rupa | 2018-07-16 |
| 1 | Rupa | 2018-07-17 |
| 2 | Sudha | 2018-07-19 |
| 3 | Vinay | 2018-07-15 |
| 4 | Sruthi | 2018-07-20 |
| 5 | Madhu | 2018-07-20 |

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