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

custId	custName	city
5	Madhu	Chennai
6	Gita	Hyderabad

Field	Type	Null	Key	Default
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;

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

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

*/

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

*

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

*/

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

custId	custName	odate
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

custId	custName	odate
3	Vinay	2018-07-15
4	Sruthi	2018-07-20
5	Madhu	2018-07-20