SQL ASSIGNMENT – 1

Queries:

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**CREATE TABLE customers (**

**custId INT PRIMARY KEY NOT NULL,**

**custName VARCHAR(10),**

**city varchar(10)**

**);**

**INSERT INTO customers**

**(custId,custName,city)**

**VALUES**

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

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

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

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

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

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

**SELECT \* FROM customers;**

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**CREATE TABLE orders(**

**oid INT PRIMARY KEY NOT NULL,**

**cid INT,**

**odate date,**

**FOREIGN KEY (cid) REFERENCES customers(custId)**

**);**

**INSERT INTO orders**

**(oid,cid,odate)**

**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;**

**=================================================================================**

**Output:(Customer Table)**

**1|Rupa|Hyderabad**

**2|Sudha|Hyderabad**

**3|Vinay|Chennai**

**4|Sruthi|Vijayawada**

**5|Madhu|Chennai**

**6|Gita|Hyderabad**

**=========================================================================**

**Output (Order Table)**

**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.

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1. **Select all the customers who have placed orders.**

Ans:

SELECT b.\*, a.custName FROM orders b, customers a WHERE a.custId=b.cid;

output:

22|3|2018-07-15|Vinay

23|1|2018-07-16|Rupa

24|1|2018-07-17|Rupa

25|2|2018-07-19|Sudha

26|4|2018-07-20|Sruthi

27|5|2018-07-20|Madhu

28|5|2018-07-12|Madhu

1. **Display num of orders placed by each customer.**

Ans:

SELECT a.custName,Count(b.cid) FROM orders b, customers a WHERE a.custId=b.cid

group by b.cid Order BY Count(b.cid) DESC;

Output:

Madhu|2

Rupa|2

Sruthi|1

Vinay|1

Sudha|1

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

Order

Ans:

SELECT a.custName,Count(b.cid) FROM orders b, customers a WHERE a.custId=b.cid

group by b.cid having count(b.cid) >1;

Output:

Rupa|2

Madhu|2

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

Ans:

select customers.custName from customers where customers.custId not in

(select cid from orders);

Output:

Gita

5. Display customer names who have made a purchase

on July 20th

Ans:

SELECT b.\*, a.custName FROM orders b, customers a

WHERE a.custId=b.cid AND b.odate='2018-07-20';

Output:

26|4|2018-07-20|Sruthi

27|5|2018-07-20|Madhu

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

Ans:

SELECT b.\*, a.custName FROM orders b, customers a

WHERE a.custId=b.cid AND (b.odate > '2018-07-12') and (b.odate < '2018-07-20')

Output:

22|3|2018-07-15|Vinay

23|1|2018-07-16|Rupa

24|1|2018-07-17|Rupa

25|2|2018-07-19|Sudha

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

Ans:

SELECT b.\*, a.custName FROM orders b, customers a WHERE a.custId=b.cid

AND (b.odate <> '2018-07-12') and (b.odate <> '2018-07-18')

Output:

22|3|2018-07-15|Vinay

23|1|2018-07-16|Rupa

24|1|2018-07-17|Rupa

25|2|2018-07-19|Sudha

26|4|2018-07-20|Sruthi

27|5|2018-07-20|Madhu