DIVYASHREE K
1BM19CS054
CSE-4A

Question:-

Program 6:

Consider the following schema for Order Database: SALESMAN (Salesman_id, Name, City, Commission) CUSTOMER (Customer_id, Cust_Name, City, Grade, Salesman_id) ORDERS (Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id) Write SQL queries to 1. Count the customers with grades above Bangalore's average. 2. Find the name and numbers of all salesmen who had more than one customer. 3. List all salesmen and indicate those who have and don't have customers in their cities (Use UNION operation.) 4. Create a view that finds the salesman who has the customer with the highest order of a day. 5. Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted.

Program 6:

```
create database orderdb1;
use orderdb1;
create table salesman(
salesman_id varchar(20),
salesman_name varchar(20),
salesman_city varchar(20),
commission varchar(20),
primary key(salesman_id)
);
create table customer(
customer_id varchar(20),
customer_name varchar(20),
customer_city varchar(20),
grade varchar(20),
```

```
salesman_id varchar(20),

primary key(customer_id),

foreign key(salesman_id) references
salesman(salesman_id) on delete set
null);

create table orders(

ord_no int,

purchase_amt double,

ord_date date,

customer_id varchar(20),

salesman_id varchar(20),

foreign key(salesman_id) references
salesman(salesman_id) on delete
cascade,
```

```
foreign key(customer_id) references
customer(customer_id) on delete
cascade

);

insert into salesman
values("1000","JHON","BANGLORE","2
5%"),

("2000","RAVI","BANGLORE","20%"),

("3000","KUMAR","MYSORE","15%"),

("4000","SMITH","DELHI","30%"),

("5000","HARSHA","HYDRABAD","15%"
);

select * from salesman;

insert into customer
values("10","PREETHI","BANGLORE","1
00","1000"),
```

("11","VIVEK","MANGLORE","300","1000"),

("12","BHASKAR","CHENNAI","400","2000"),

("13","CHETHAN","BANGLORE","200","2000"),

("14","MAMTHA","BANGLORE","400","3000");

select * from customer;

insert into orders
values("50","5000","17-05-04","10","1000"),

("51","450","17-01-20","10","2000"),

("52","1000","17-02-24","13","2000"),

("53","3500","17-04-13","14","3000"),

("54","550","17-03-09","12","2000");

```
select * from orders;

insert into salesman
values("1000","JHON","BANGLORE","2
5%"),

("2000","RAVI","BANGLORE","20%"),

("3000","KUMAR","MYSORE","15%"),

("4000","SMITH","DELHI","30%"),

("5000","HARSHA","HYDRABAD","15%"
);

select * from salesman;

insert into customer
values("10","PREETHI","BANGLORE","1
00","1000"),

("11","VIVEK","MANGLORE","300","10
00"),
```

("12","BHASKAR","CHENNAI","400","2000"),

("13","CHETHAN","BANGLORE","200","2000"),

("14","MAMTHA","BANGLORE","400","3000");

select * from customer;

insert into orders
values("50","5000","17-05-04","10","1000"),

("51","450","17-01-20","10","2000"),

("52","1000","17-02-24","13","2000"),

("53","3500","17-04-13","14","3000"),

("54","550","17-03-09","12","2000");

select * from orders;

```
select grade,count(distinct
customer_id) from customer group by
grade having grade > (select

avg(grade) from customer where
customer_city ="BANGLORE");

select salesman_id ,salesman_name
from salesman S where 1 <(select
count(*) from customer

where salesman_id = S.salesman_id);

select salesman.salesman_id
,salesman_name,customer_name,com
mission from

salesman,customer where
salesman_city = customer_city union
select
```

```
salesman_id,salesman_name ,'NO
MATCH FOUND',commission from
salesman where not

salesman_city = any(select
customer_city from customer)order by
2 desc;

create view best_salesman as select
b.ord_date
,a.salesman_id,a.salesman_name from

salesman a,orders b where
a.salesman_id=b.salesman_id and
b.purchase_amt=(select

max(purchase_amt) from orders c
where c.ord_date=b.ord_date);

select * from best_salesman;

delete from salesman where
salesman_id = 1000;
```

Output:

```
7    commission varchar(20),
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

salesman_id	salesman_name	salesman_city	commission
1000	JHON	BANGLORE	25%
2000	RAVI	BANGLORE	20%
3000	KUMAR	MYSORE	15%
4000	SMITH	DELHI	30%
5000	HARSHA	HYDRABAD	15%
NULL	NULL	NULL	NULL

salesman 1 | customer 2 | orders 3

Output

```
7    commission varchar(20),
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customer_id	customer_name	customer_city	grade	salesman_id
10	PREETHI	BANGLORE	100	1000
11	VIVEK	MANGLORE	300	1000
12	BHASKAR	CHENNAI	400	2000
13	CHETHAN	BANGLORE	200	2000
14	MAMTHA	BANGLORE	400	3000
NULL	NULL	NULL	NULL	NULL

salesman 1 | customer 2 | orders 3 | Apply

Output

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ord_no	purchase_amt	ord_date	customer_id	salesman_id
50	5000	2017-05-04	10	1000
51	450	2017-01-20	10	2000
52	1000	2017-02-24	13	2000
53	3500	2017-04-13	14	3000
54	550	2017-03-09	12	2000

salesman 1 | customer 2 | orders 3 | Read Only

Output