TRISHUL M

1BM19CS173

D1

ORDER

```
create database orderdb;
use orderdb;

create table salesman (
        salesman_id int(4),
        name varchar (20),
        city varchar (20),
        commission varchar (20),
        primary key (salesman_id)
);
desc salesman;
create table customer1 (
        customer_id int(4),
        cust_name varchar (20),
        city varchar (20),
        grade int (3),
    salesman_id int(4),
        primary key (customer_id),
        foreign key (salesman_id) references salesman(salesman_id) on delete set null
);
desc customer1;
create table orders (
        ord_no int (5),
        purchase_amt int (10),
```

ord_date date,

  customer_id int(4),

    salesman_id int(4),

    primary key (ord_no),

    foreign key (customer_id) references customer1 (customer_id) on delete cascade,

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

);

desc orders;

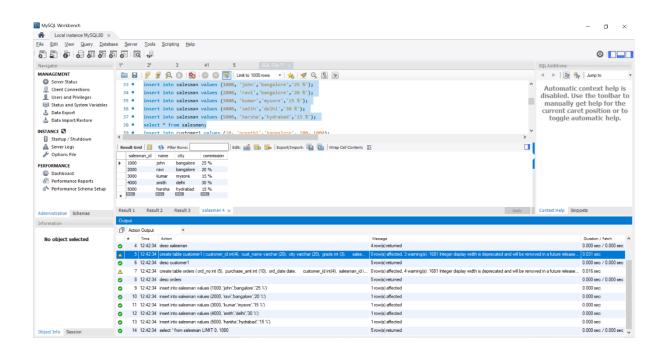insert into salesman values (1000, 'john','bangalore','25 %');

insert into salesman values (2000, 'ravi','bangalore','20 %');

insert into salesman values (3000, 'kumar','mysore','15 %');

insert into salesman values (4000, 'smith','delhi','30 %');

insert into salesman values (5000, 'harsha','hydrabad','15 %');

select * from salesman;

insert into customer1 values (10, 'preethi','bangalore', 100, 1000);

insert into customer1 values (11,'vivek','mangalore', 300, 1000);

insert into customer1 values (12, 'bhaskar','chennai', 400, 2000);

insert into customer1 values (13, 'chethan','bangalore', 200, 2000);

insert into customer1 values (14, 'mamatha','bangalore', 400, 3000);

select * from customer1;

customer_id	cust_name	city	grade	salesman_id
10	preethi	bangalore	100	1000
11	vivek	mangalore	300	1000
12	bhaskar	chennai	400	2000
13	chethan	bangalore	200	2000
14	mamatha	bangalore	400	3000
NULL	NULL	NULL	NULL	NULL

insert into orders values (50, 5000, '04-06-17', 10, 1000);

insert into orders values (51, 450, '20-01-17', 10, 2000);

insert into orders values (52, 1000, '24-02-17', 13, 2000);

insert into orders values (53, 3500, '13-04-17', 14, 3000);

insert into orders values (54, 550, '09-03-17', 12, 2000);

select * from orders;

ord_no	purchase_amt	ord_date	customer_id	salesman_id
50	5000	2004-06-17	10	1000
51	450	2020-01-17	10	2000
52	1000	2024-02-17	13	2000
53	3500	2013-04-17	14	3000
54	550	2009-03-17	12	2000
NULL	NULL	NULL	NULL	NULL

-- Query 1

select grade, count(distinct customer_id)

from customer1

group by grade

having grade > (select avg(grade)

from customer1

where city='bangalore'

);

grade	count(distinct customer_id)
300	1
400	2

-- Query 2

select
salesman_id,
name

from salesman a

where 1 < (select count(*)

from customer1

```
            where
            salesman_id=a.salesman_id
            );
```

salesman_id	name
2000	ravi
NULL	NULL

-- Query 3

select salesman.salesman_id, name, cust_name, commission

from salesman, customer1

where salesman.city = customer1.city

union

select salesman_id, name, 'no match', commission

from salesman

where not city = any

(select city

from customer1)

order by 2 desc;

salesman_id	name	cust_name	commission
4000	smith	no match	30 %
2000	ravi	preethi	20 %
2000	ravi	chethan	20 %
2000	ravi	mamatha	20 %
3000	kumar	no match	15 %
1000	john	preethi	25 %
1000	john	chethan	25 %
1000	john	mamatha	25 %
5000	harsha	no match	15 %

-- Query 4

create view highsalesman as

select b.ord_date, a.salesman_id, a.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 highsalesman;

ord_date	salesman_id	name
2004-06-17	1000	john
2020-01-17	2000	ravi
2024-02-17	2000	ravi
2013-04-17	3000	kumar
2009-03-17	2000	ravi

-- Query 5

delete from salesman

where salesman_id=1000;

select * from salesman;

salesman_id	name	city	commission
2000	ravi	bangalore	20 %
3000	kumar	mysore	15 %
4000	smith	delhi	30 %
5000	harsha	hydrabad	15 %
NULL	NULL	NULL	NULL

select * from orders;

ord_no	purchase_amt	ord_date	customer_id	salesman_id
51	450	2020-01-17	10	2000
52	1000	2024-02-17	13	2000
53	3500	2013-04-17	14	3000
54	550	2009-03-17	12	2000
NULL	NULL	NULL	NULL	NULL