LAB 6- ORDER DATABASE

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1BM19CS194

4-D

```
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 customer (
        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;

	salesman_id	name	city	commission
▶	1000	john	bangalore	25 %
	2000	ravi	bangalore	20 %
	3000	kumar	mysore	15 %
	4000	smith	delhi	30 %
	5000	harsha	hydrabad	15 %
*	NULL	NULL	NULL	NULL

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 customer;

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);

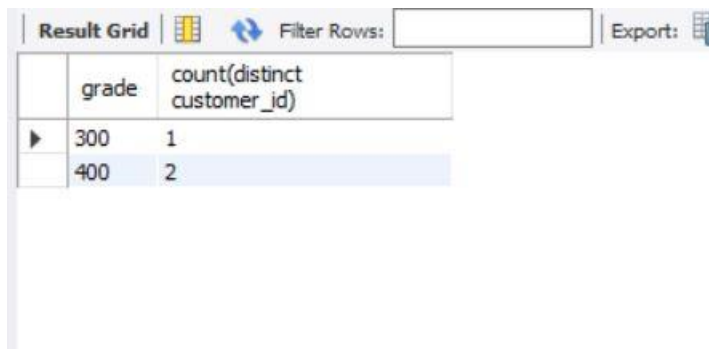insert into orders values (53, 3500, '13-04-17', 14, 3000);

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'
);
```


-- Query 2

```
select salesman_id, name
from salesman a
where 1 < (select count(*)
from customer1
where salesman_id=a.salesman_id
);
```

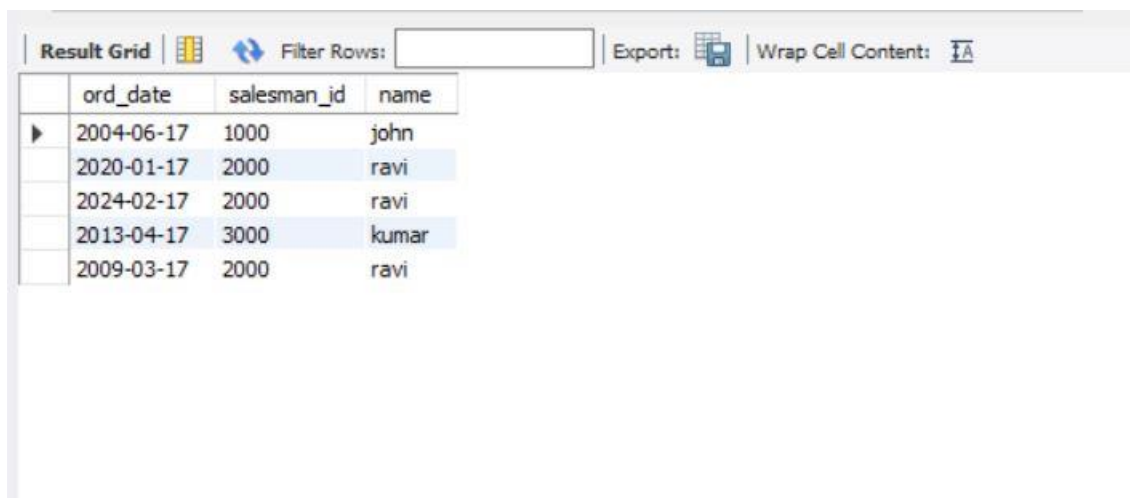|	salesman_id	name
▶	1000	john
	2000	ravi
*	NULL	NULL

-- 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;

select * from orders;

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