1. Schema for the ordered DB

**Solution :-**

drop table salesman cascade constraints;

drop table customer cascade constraints;

drop table orders cascade constraints;

drop view Viewsalesman;

create table salesman

(salesman\_id int,

name varchar2(20),

city varchar2(20),

commission varchar2(20),

primary key(salesman\_id));

create table customer

(customer\_id int,

cust\_name varchar2(20),

city varchar2(20),

grade number(3),

primary key(customer\_id),

salesman\_id references salesman(salesman\_id) on delete set NULL);

create table orders

(ord\_no int,

purchase\_amt float,

ord\_date DATE,

primary key(ord\_no),

customer\_id references customer(customer\_id) on delete cascade,

salesman\_id references salesman(salesman\_id) on delete cascade);

select grade,count(distinct customer\_id) from customer group by grade

having grade >(select AVG(grade) from customer

where city = 'Bangalore');

select salesman\_id,name from salesman A

where 1<(select count(\*) from customer

where salesman\_id = A.salesman\_id);

select salesman.salesman\_id,salesman.city,name,cust\_name,commission

from salesman,customer

where salesman.city = customer.city

union

select salesman\_id,city,name,'no value',commission

from salesman

where not city = any(select city from customer);

create view Viewsalesman as

select B.ord\_date,A.salesman\_id,A.name,B.purchase\_amt

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 Viewsalesman;

delete from salesman

where salesman\_id = 1000;