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Program 6: Order Database

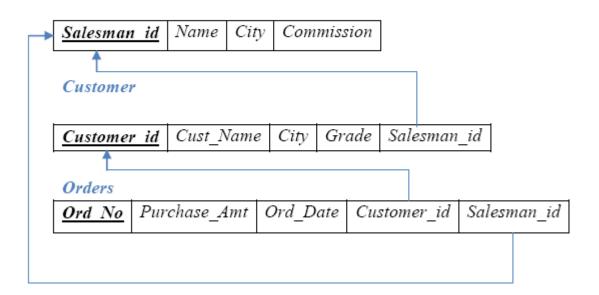
Consider the following schema for Order Database:

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.

Schema Diagram

Salesman



Creation of tables and entering tuple values:

```
show databases;
create database order1;
use order1;
create table salesman(
        salesman_id int primary key,
  name varchar(30),
  city varchar(30),
  commission varchar(10)
);
desc salesman;
create table customer(
        customer_id int primary key,
  cust_name varchar(30),
  city varchar(30),
  grade int(3),
  salesman_id int,
 foreign key(salesman_id) references salesman(salesman_id) on delete set NULL
                                                                                       #gonna
delete later thats why
);
desc customer;
create table orders(
        ord_no int(5) primary key,
  purchase_amt real,
  ord date date,
  customer_id int,
  salesman_id int,
  foreign key(customer_id) references customer(customer_id),
  foreign key(salesman_id) references salesman(salesman_id)
);
desc orders;
insert into salesman
values (1000, 'John', 'Bangalore', '25%'),
               (2000, 'Ravi', 'Bangalore', '20%'),
     (3000, 'Kumar', 'Mysore', '15%'),
     (4000, 'Smith', 'Delhi', '30%'),
     (5000, 'Harsha', 'Hyderabad', '15%');
select * from salesman;
insert into customer
values (10, 'Preethi', 'Bangalore', 100, 1000),
```

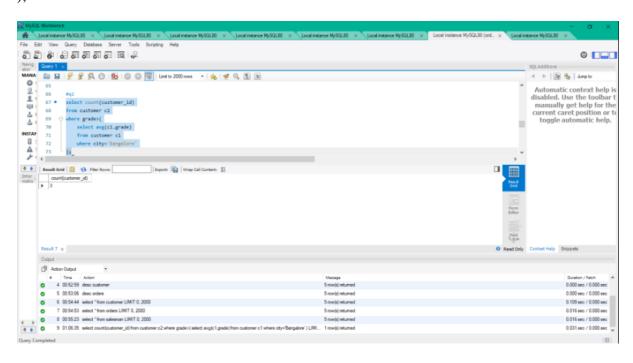
```
(11,'Vivek','Mangalore',300,1000),
(12,'Bhaskar','Chennai',400,2000),
(13,'Chethan','Bangalore',200,2000),
(14,'Mamatha','Bangalore',400,3000);

select * from customer;

insert into orders
values (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);

select * from orders;
```

1. Count the customers with grades above Bangalore's average.

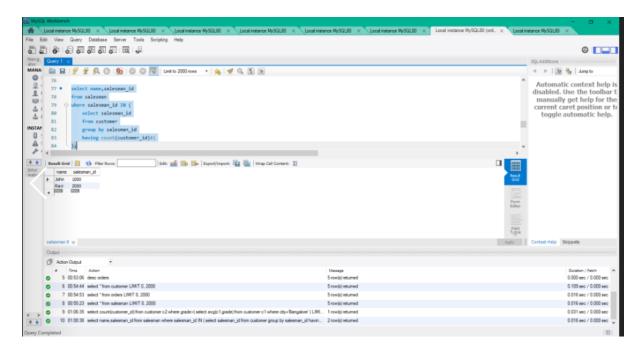


2. Find the name and numbers of all salesmen who had more than one customer.

```
select name,salesman_id
from salesman
where salesman_id IN (
select salesman_id
```

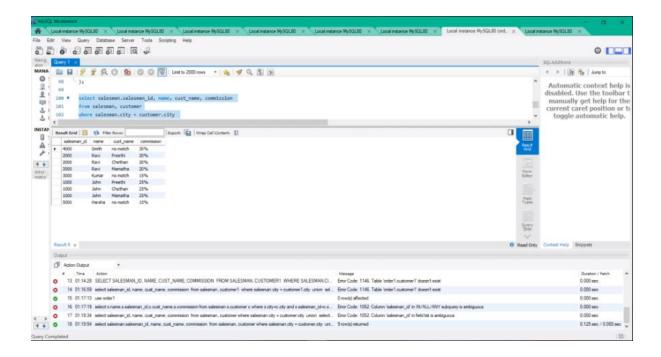
from customer group by salesman_id having count(customer_id)>1

);

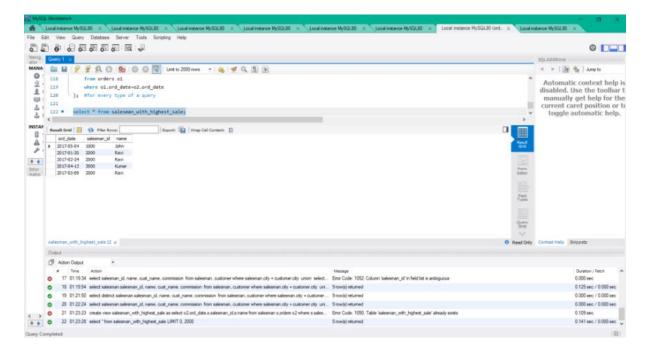


3. List all salesmen and indicate those who have and don't have customers in their cities (Use UNION operation.)

select salesman.salesman_id, name, cust_name, commission from salesman, customer where salesman.city = customer.city union select salesman_id, name, 'no match', commission from salesman where not city = any (select city from customer) order by 2 desc;



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.

delete from Salesman where salesman_id = 1000;

select * from Salesman; select * from Orders

	order_id	purchase_amt	order_date	customer_id	salesman_id
•	50	5000	2017-05-04	10	NULL
	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
	NULL	NULL	NULL	NULL	NULL