# **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.

# 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 %

### SELECT \* FROM CUSTOMER1;

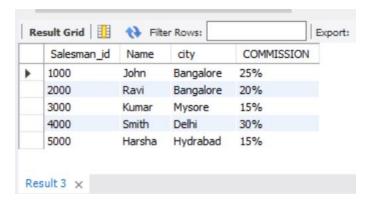
CUSTOMER_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
10	PREETHI	BANGALORE	100	1000
11	VIVEK	MANGALORE	300	1000
12	BHASKAR	CHENNAI	400	2000
13	CHETHAN	BANGALORE	200	2000
14	MAMATHA	BANGALORE	400	3000

# SELECT \* FROM ORDERS;

```
50
                      5000 04-MAY-17
                                                   10
                                                               1000
                                                 10
         51
                      450 20-JAN-17
                                                               2000
         52
                      1000 24-FEB-17
                                                  13
                                                               2000
         53
                      3500 13-APR-17
                                                  14
                                                               3000
         54
                       550 09-MAR-17
                                                   12
                                                               2000
CREATE DATABASE ORDER_DATABASE;
USE ORDER_DATABASE;
CREATE TABLE SALESMAN
(
       Salesman_id int primary key,
       Name varchar(40),
       City varchar(20),
       Commission decimal
);
CREATE TABLE CUSTOMER
(
       Customer_id int primary key,
       Cust_Name varchar(40),
       City varchar(20),
       Grade int,
       Salesman_id int,
       Foreign Key(Salesman_id) references SALESMAN(Salesman_id)
);
CREATE TABLE ORDERS
(
       Ord_No int primary key,
       Purchase_Amt int,
       Ord_Date Date,
       Customer_id int,
       Salesman_id int,
       Foreign Key(Salesman_id) references SALESMAN(Salesman_id),
```

ORD\_NO PURCHASE\_AMT ORD\_DATE CUSTOMER\_ID SALESMAN\_ID

SELECT Salesman\_id,Name,city,concat(Commission,'%') AS COMMISSION FROM SALESMAN; select \* from SALESMAN;



#### insert into CUSTOMER

```
values (10,"Preethi","Bangalore",100,1000),

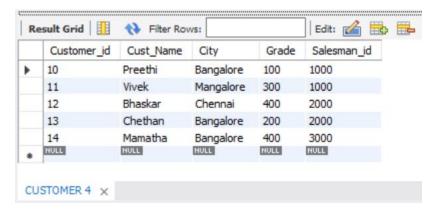
(11,"Vivek","Mangalore",300,1000),

(12,"Bhaskar","Chennai",400,2000),

(13,"Chethan","Bangalore",200,2000),

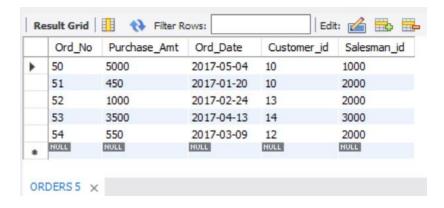
(14,"Mamatha","Bangalore",400,3000);
```

#### select \* from CUSTOMER;

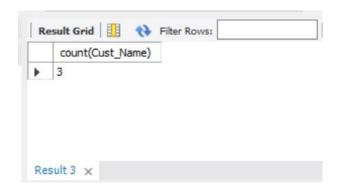


insert into ORDERS

## select \* from ORDERS;



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



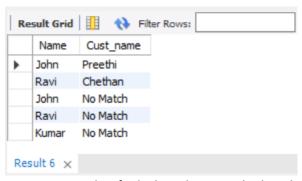
2. Find the name and numbers of all salesmen who had more than one customer.

```
select distinct c.Salesman_id,s.name
from CUSTOMER c,SALESMAN s
where c.Salesman_id=s.Salesman_id and 1<(select count(Customer_id)
from CUSTOMER
where Salesman_id=c.Salesman_id);
```



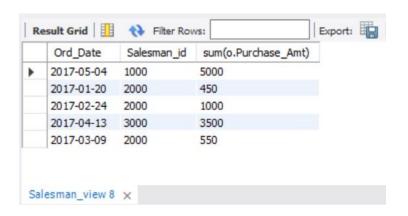
3. List all salesmen and indicate those who have and don't have customers in their cities (Use UNION operation.)

```
select s.Name,c.Cust_name
from SALESMAN s,CUSTOMER c
where s.Salesman_id=c.Salesman_id and c.City=s.City
union
select s.Name,'No Match' from SALESMAN s,CUSTOMER c
where s.Salesman_id = c.Salesman_id and c.City!=s.City;
```



4. Create a view that finds the salesman who has the customer with the highest order of a day.

```
create view Salesman_view as select o.Ord_Date ,Salesman_id,sum(o.Purchase_Amt) from ORDERS o group by Ord_Date having sum(Purchase_Amt)=(select max(sum(Purchase_Amt)))from CUSTOMER where Ord_Date = o.Ord_Date and Salesman_id = o.Salesman_id);
```



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;



