VAIBHAVI PATIL
1BM19CS217
CSE SEC 'A'

ORDER DATABASE OUTPUT

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

select * from orders;

salesman_id	salesman_name	salesman_city	commission
1000	JHON	BANGLORE	25%
2000	RAVI	BANGLORE	20%
3000	KUMAR	MYSORE	15%
4000	SMITH	DELHI	30%
5000	HARSHA	HYDRABAD	15%
NULL	NULL	NULL	NULL

salesman 1 ×

select * from salesman;

customer_id	customer_name	customer_city	grade	salesman_id
10	PREETHI	BANGLORE	100	1000
11	VIVEK	MANGLORE	300	1000
12	BHASKAR	CHENNAI	400	2000
13	CHETHAN	BANGLORE	200	2000
14	MAMTHA	BANGLORE	400	3000
NULL	NULL	NULL	NULL	NULL

customer 2 ×

select * from customer;

ord_no	purchase_amt	ord_date	customer_id	salesman_id
50	5000	2004-05-17	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

orders 3 ×

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

select grade,count(distinct customer_id) from customer group by grade having grade > (select avg(grade) from customer where customer_city ="BANGLORE");

grade	count(distinct customer_id)
300	1
400	2

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

select salesman_id ,salesman_name from salesman S where 1 <(select count(*) from customer where salesman_id = S.salesman_id);

salesman_id	salesman_name
1000	JHON
2000	RAVI
NULL	NULL

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

```
select salesman.salesman_id ,salesman_name,customer_name,commission from
salesman,customer where salesman_city = customer_city union select
salesman_id,salesman_name ,'NO MATCH FOUND',commission from salesman where not
salesman_city = any(select customer_city from customer)order by 2 desc;
```

salesman_id	salesman_name	customer_name	commission
4000	SMITH	NO MATCH FOUND	30%
2000	RAVI	PREETHI	20%
2000	RAVI	CHETHAN	20%
2000	RAVI	MAMTHA	20%
3000	KUMAR	NO MATCH FOUND	15%
1000	JHON	PREETHI	25%
1000	JHON	CHETHAN	25%
1000	JHON	MAMTHA	25%
5000	HARSHA	NO MATCH FOUND	15%

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

```
create view best_salesman as select b.ord_date ,a.salesman_id,a.salesman_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 best_salesman;
```

ord_date	salesman_id	salesman_name
2004-05-17	1000	JHON
2020-01-17	2000	RAVI
2024-02-17	2000	RAVI
2013-04-17	3000	KUMAR
2009-03-17	2000	RAVI

best_salesman 12 ×

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;

	salesman_id	salesman_name	salesman_city	commission
▶	2000	RAVI	BANGLORE	20%
	3000	KUMAR	MYSORE	15%
	4000	SMITH	DELHI	30%
	5000	HARSHA	HYDRABAD	15%
*	NULL	NULL	NULL	NULL