Program 6: Order Database

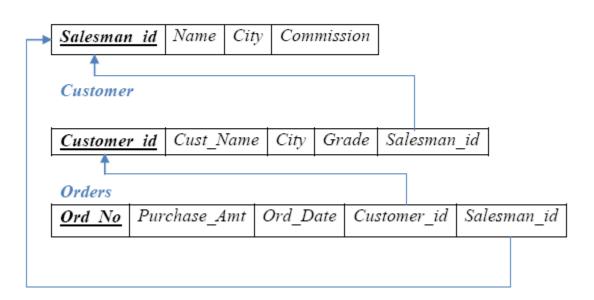
Consider the following schema for Order Database:

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



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 C	CUST_NAME	CITY	GRADE	SALESMAN_ID
10 P	REETHI	BANGALORE	100	1000
11 V	JIVEK	MANGALORE	300	1000
12 B	BHASKAR	CHENNAI	400	2000
13 C	CHETHAN	BANGALORE	200	2000
14 M	1AMATHA	BANGALORE	400	3000

SELECT * FROM ORDERS;

ORD_NO	PURCHASE_AMT	ORD_DATE	CUSTOMER_ID	SUTERMUNTID
50	5000	04-MAY-17	10	1000
51	450	20-JAN-17	10	2000
52	1000	24-FEB-17	13	2000
53	3500	13-APR-17	14	3000
54	550	09-MAR-17	12	2000

Program:-

create database orderdb2; use orderdb2; create table salesman(salesman_id varchar(20), salesman_name varchar(20), commission varchar(20), primary key(salesman_id)); create table customer(customer_id varchar(20), customer_name varchar(20), customer_city varchar(20), grade varchar(20), salesman_id varchar(20),

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primary key(customer_id),
foreign key(salesman id) references salesman(salesman id) on delete set null);
create table orders(
ord_no int,
purchase amt double,
ord_date date,
customer id varchar(20),
salesman_id varchar(20),
foreign key(salesman_id) references salesman(salesman_id) on delete cascade,
foreign key(customer id) references customer(customer id) on delete cascade
);
insert into salesman values("1000", "JHON", "BANGLORE", "25%"),
("2000", "RAVI", "BANGLORE", "20%"),
("3000","KUMAR","MYSORE","15%"),
("4000", "SMITH", "DELHI", "30%"),
("5000", "HARSHA", "HYDRABAD", "15%");
```

select * from salesman;

	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

insert into customer values("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"); select * from customer;

	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

```
insert into orders values("50","5000","17-05-04","10","1000"),
("51","450","17-01-20","10","2000"),
("52","1000","17-02-24","13","2000"),
("53", "3500", "17-04-13", "14", "3000"),
("54", "550", "17-03-09", "12", "2000");
```

select * from orders;

	ord_no	purchase_amt	ord_date	customer_id	salesman_id
•	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 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

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

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
٠	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%

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
١	2017-05-04	1000	JHON
	2017-01-20	2000	RAVI
	2017-02-24	2000	RAVI
	2017-04-13	3000	KUMAR
	2017-03-09	2000	RAVI
	-		

delete from salesman where salesman_id = 1000;