**PROGRAM 6.**

**ORDER PROCESSING DATABASE**

CREATE DATABASE ORDPROCESS;

USE ORDPROCESS;

CREATE TABLE SALESMAN(SALESMAN\_ID INT,

NAME VARCHAR (20),

CITY VARCHAR (20),

COMMISSION VARCHAR (20),

PRIMARY KEY (SALESMAN\_ID));

DESC SALESMAN;

CREATE TABLE CUSTOMER

(CUSTOMER\_ID INT,

CUST\_NAME VARCHAR (20),

CITY VARCHAR (20),

GRADE INT,

SALESMAN\_ID INT,

PRIMARY KEY (CUSTOMER\_ID),

FOREIGN KEY(SALESMAN\_ID) REFERENCES SALESMAN (SALESMAN\_ID) ON DELETE SET NULL);

DESC CUSTOMER;

CREATE TABLE ORDERS

(ORD\_NO INT,

PURCHASE\_AMT REAL,

ORD\_DATE DATE,

CUSTOMER\_ID INT,

SALESMAN\_ID INT,

PRIMARY KEY (ORD\_NO),

FOREIGN KEY(CUSTOMER\_ID) REFERENCES CUSTOMER(CUSTOMER\_ID) ON DELETE CASCADE,

FOREIGN KEY(SALESMAN\_ID) REFERENCES SALESMAN(SALESMAN\_ID) ON DELETE CASCADE);

DESC ORDERS;

INSERT INTO SALESMAN VALUES (1000,'JOHN','BANGALORE','25 %');

INSERT INTO SALESMAN VALUES (2000,'RAVI','BANGALORE','20 %');

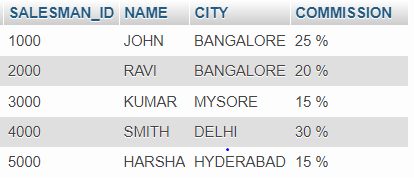
INSERT INTO SALESMAN VALUES (3000,'KUMAR','MYSORE','15 %');

INSERT INTO SALESMAN VALUES (4000,'SMITH','DELHI','30 %');

INSERT INTO SALESMAN VALUES (5000,'HARSHA','HYDERABAD','15 %');

COMMIT;

Select \* from SALESMAN;



INSERT INTO CUSTOMER VALUES (10,'PREETHI','BANGALORE', 100, 1000);

INSERT INTO CUSTOMER VALUES (11,'VIVEK','MANGALORE', 300, 1000);

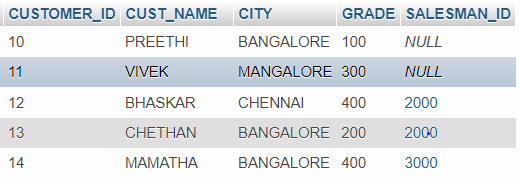
INSERT INTO CUSTOMER VALUES (12,'BHASKAR','CHENNAI', 400, 2000);

INSERT INTO CUSTOMER VALUES (13,'CHETHAN','BANGALORE', 200, 2000);

INSERT INTO CUSTOMER VALUES (14,'MAMATHA','BANGALORE', 400, 3000);

COMMIT;

SELECT \* FROM CUSTOMER;



INSERT INTO ORDERS VALUES (50, 5000,'2017-05-04',10,1000);

INSERT INTO ORDERS VALUES (51, 450,'2017-01-20',10,2000);

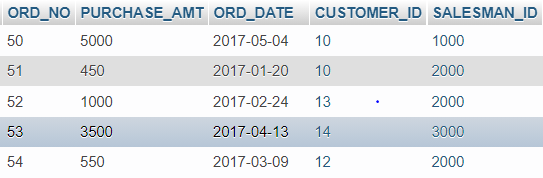
INSERT INTO ORDERS VALUES (52, 1000,'2017-02-24',13,2000);

INSERT INTO ORDERS VALUES (53, 3500,'2017-04-13',14,3000);

INSERT INTO ORDERS VALUES (54, 550,'2017-03-09',12,2000);

COMMIT;

SELECT \* FROM ORDERS;



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 CITY='BANGALORE');



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

SELECT SALESMAN\_ID, NAME

FROM SALESMAN S1

WHERE 1 < (SELECT COUNT(\*)

FROM CUSTOMER

WHERE SALESMAN\_ID=S1.SALESMAN\_ID);



**3)List all salesmen and indicate those who have and don’t have customers in their cities**

SELECT S.SALESMAN\_ID, NAME, CUST\_NAME, COMMISSION

FROM SALESMAN S, CUSTOMER C

WHERE S.CITY = C.CITY

UNION

SELECT SALESMAN\_ID, NAME, 'NO MATCH', COMMISSION

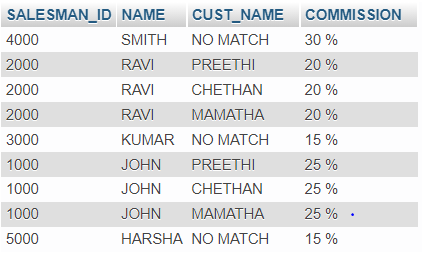
FROM SALESMAN

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.**

CREATE VIEW ELITESALESMAN AS

SELECT O.ORD\_DATE, S.SALESMAN\_ID, S.NAME

FROM SALESMAN S, ORDERS O

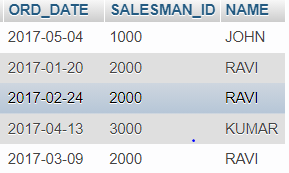
WHERE S.SALESMAN\_ID = O.SALESMAN\_ID

AND O.PURCHASE\_AMT=(SELECT MAX(PURCHASE\_AMT)

FROM ORDERS O1

WHERE O1.ORD\_DATE = O.ORD\_DATE);

SELECT \* FROM ELITESALESMAN;



**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;

