--Create Table SALESMAN with Primary Key as SALESMAN\_ID

CREATE TABLE SALESMAN(

SALESMAN\_ID INTEGER PRIMARY KEY,

NAME VARCHAR(20),

CITY VARCHAR(20),

COMMISSION VARCHAR(20));

DESC SALESMAN;

--------------------------------------

--Create Table CUSTOMER with Primary Key as CUSTOMER\_ID and Foreign Key SALESMAN\_ID referring the SALESMAN table

CREATE TABLE CUSTOMER(

CUSTOMER\_ID INTEGER PRIMARY KEY,

CUST\_NAME VARCHAR(20),

CITY VARCHAR(20),

GRADE INTEGER,

SALESMAN\_ID INTEGER,

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

DESC CUSTOMER;

--------------------------------------

--Create Table ORDERS with Primary Key as ORDER\_NO and Foreign Key CUSTOMER\_ID and SALESMAN\_ID referring the CUSTOMER and SALESMAN tables respectively

CREATE TABLE ORDERS(

ORDER\_NO INTEGER PRIMARY KEY,

PURCHASE\_AMOUNT DECIMAL(10,2),

ORDER\_DATE DATE,

CUSTOMER\_ID INTEGER,

SALESMAN\_ID INTEGER,

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

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

DESC ORDERS;

--Inserting records into SALESMAN table

INSERT INTO SALESMAN VALUES(1000,'RAHUL','BANGALORE','20%');

INSERT INTO SALESMAN VALUES(2000,'ANKITA','BANGALORE','25%');

INSERT INTO SALESMAN VALUES(3000,'SHARMA','MYSORE','30%');

INSERT INTO SALESMAN VALUES(4000,'ANJALI','DELHI','15%');

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

SELECT \* FROM SALESMAN;

------------------------------------------

--Inserting records into CUSTOMER table

INSERT INTO CUSTOMER VALUES(1,'ADYA','BANGALORE',100,1000);

INSERT INTO CUSTOMER VALUES(2,'BANU','MANGALORE',300,1000);

INSERT INTO CUSTOMER VALUES(3,'CHETHAN','CHENNAI',400,2000);

INSERT INTO CUSTOMER VALUES(4,'DANISH','BANGALORE',200,2000);

INSERT INTO CUSTOMER VALUES(5,'ESHA','BANGALORE',400,3000);

SELECT \* FROM CUSTOMER;

------------------------------------------

--Inserting records into ORDERS table

INSERT INTO ORDERS VALUES(201,5000,'2020-06-02',1,1000);

INSERT INTO ORDERS VALUES(202,450,'2020-04-09',1,2000);

INSERT INTO ORDERS VALUES(203,1000,'2020-03-15',3,2000);

INSERT INTO ORDERS VALUES(204,3500,'2020-07-09',4,3000);

INSERT INTO ORDERS VALUES(205,550,'2020-05-05',2,2000);

SELECT \* FROM ORDERS;

-- 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');

----------------------------------

--Find the name and numbers of all salesman who had more than one customer

SELECT SALESMAN\_ID, NAME

FROM SALESMAN S

WHERE (SELECT COUNT(\*)

FROM CUSTOMER C

WHERE C.SALESMAN\_ID=S.SALESMAN\_ID) > 1;

----------------------------------

--List all the salesman and indicate those who have and don’t have customers in their cities (Use UNION operation.)

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

FROM SALESMAN S, CUSTOMER C

WHERE S.CITY=C.CITY

UNION

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

FROM SALESMAN S

WHERE CITY NOT IN

(SELECT CITY

FROM CUSTOMER)

ORDER BY 1 ASC;

-----------------------------------

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

CREATE VIEW V\_SALESMAN AS

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

FROM SALESMAN S,ORDERS O

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

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

FROM ORDERS C

WHERE C.ORDER\_DATE=O.ORDER\_DATE);

SELECT \* FROM V\_SALESMAN;

-----------------------------------

--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;