CREATE DATABASE EMPNEW1;

USE EMPNEW1;

CREATE TABLE EMPLOYEE

(

EMPID INT,

EMPFNAME VARCHAR(30),

EMPLNAME VARCHAR(50),

AGE INT,

EMAILID VARCHAR(50),

PHONE BIGINT,

EMPADD VARCHAR(100)

);

INSERT INTO EMPLOYEE VALUES(1,'AKSHAY','KUMAR',22,'AKSHAY@GMAIL.COM',9876544567,'BANGALORE');

INSERT INTO EMPLOYEE VALUES(2,'MARTHA','DSOUZA',28,'MARTHA@GMAIL.COM',7654678956,'CHENNAI');

INSERT INTO EMPLOYEE VALUES(3,'ALEX','FERNANDO',22,'ALEX@GMAIL.COM',6787899876,'HYDERABAD');

INSERT INTO EMPLOYEE VALUES(4,'DANE','PRINCE',32,'DANE@GMAIL.COM',77986544567,'GOA');

INSERT INTO EMPLOYEE VALUES(5,'ABHITOSH','KUMAR',22,'ABITHOSH@GMAIL.COM',9976544567,'PATNA');

SELECT \* FROM EMPLOYEE;

CREATE TABLE PROJECTS

(

PID INT,

EMPID INT,

CLIENTID INT,

PROJECTNAME VARCHAR(50),

PROJ\_START DATE

);

INSERT INTO PROJECTS VALUES(111,1,3,'P1','2021-05-11');

INSERT INTO PROJECTS VALUES(222,2,1,'P2','2021-02-21');

INSERT INTO PROJECTS VALUES(333,4,2,'P3','2020-06-16');

INSERT INTO PROJECTS VALUES(444,3,3,'P4','2020-09-23');

INSERT INTO PROJECTS VALUES(555,4,2,'P5','2021-03-14');

INSERT INTO PROJECTS VALUES(666,16,1,'P6','2021-04-14');

SELECT \* FROM PROJECTS;

SELECT \* FROM EMPLOYEE;

--SAMPLE INNERJOIN

--MATCHING SETS OF A & MATCHING SETS OF b(INNERJOIN)

SELECT E.EMPID,E.EMPFNAME,P.PID,P.PROJECTNAME FROM

EMPLOYEE INNER JOIN PROJECTS ON EMPLOYEE.EMPID = PROJECTS.EMPID;

--SAMPLE LEFT JOIN LEFT OUTER JOIN

--ALL VALUES ARE RETURNED LEFT TABLE

--RETURNS MATCHING VALUES WRT RIGHT TABLE

--WHEN THE RECORDS FROM LEFT DOESNOT MATCH THEN NULL WILL BE PLACED

SELECT E.EMPID,E.EMPFNAME,P.PID,P.PROJECTNAME FROM

EMPLOYEE LEFT JOIN PROJECTS ON EMPLOYEE.EMPID = PROJECTS.EMPID;

--SAMPLE RIGHT JOIN RIGHT OUTER JOIN

--RETURNS ALL VALUES WRT RIGHT TABLE(PROJECTS)

--RETURNS MATCHING VALUES WRT LEFT TABLE(EMPLOYEE)

--FOR NO MATCHING RECORDS ON LEFT TABLE(EMPLOYEE)RETURNS NULL

SELECT E.EMPID,E.EMPFNAME,P.PID,P.PROJECTNAME,P.EMPID FROM

EMPLOYEE E RIGHT JOIN PROJECTS P ON E.EMPID = P.EMPID;

--FULL JOIN

--MATCHING VAL OF A OR B

--NOT MATCHING ONES WILL GIVE NULL

SELECT E.EMPID,E.EMPFNAME,P.PID,P.PROJECTNAME,P.EMPID FROM

EMPLOYEE E FULL JOIN PROJECTS P ON E.EMPID = P.EMPID;

ALTER TABLE EMPLOYEE

ADD MANAGERID INT;

SELECT \* FROM EMPLOYEE;

UPDATE EMPLOYEE

SET MANAGERID = 4;

UPDATE EMPLOYEE

SET MANAGERID = 2 WHERE EMPID=3;

SELECT E.EMPID,M.EMPFNAME,E.MANAGERID,E.EMPFNAME AS MANAGER\_NAME

FROM EMPLOYEE E,EMPLOYEE M

WHERE E.MANAGERID=M.EMPID;

SELECT E.EMPID,E.EMPFNAME,E.MANAGERID,M.EMPFNAME AS MANAGER\_NAME

FROM EMPLOYEE E INNER JOIN EMPLOYEE M ON E.MANAGERID=M.EMPID;

CREATE DATABASE E\_COMMERCE;

USE E\_COMMERCE;

--CATEGORES TABLE

CREATE TABLE CATEGORIES

(

CAT\_ID INT PRIMARY KEY,

CAT\_NAME VARCHAR(50),

CAT\_DESC VARCHAR(100)

);

CREATE TABLE PRODUCTS

(

PID INT PRIMARY KEY,

PNAME VARCHAR(50),

PRICE FLOAT,

CAT\_ID INT FOREIGN KEY REFERENCES CATEGORIES(CAT\_ID)

);

INSERT INTO CATEGORIES VALUES(1,'SOAP','BATHING & DETERGENT');

INSERT INTO CATEGORIES VALUES(2,'SHAMPOOS','HAIR & PRODUCTS');

INSERT INTO CATEGORIES VALUES(3,'SANITIZER','CLEANSING');

INSERT INTO CATEGORIES VALUES(4,'CONDITIONERS','HAIR PRODUCTS');

INSERT INTO CATEGORIES VALUES(5,'MOISTURIZER','BEAUTY PRODUCT');

SELECT \* FROM CATEGORIES;

SELECT \* FROM PRODUCTS;

SELECT \* FROM ORDERS;

INSERT INTO PRODUCTS VALUES(1,'LUX',30,1);

INSERT INTO PRODUCTS VALUES(2,'PONDS',50,5);

INSERT INTO PRODUCTS VALUES(3,'HIMALAYA SANITIZER',40,3);

INSERT INTO PRODUCTS VALUES(4,'SUNSILK',50,2);

INSERT INTO PRODUCTS VALUES(5,'LORIAL',70,4);

INSERT INTO PRODUCTS VALUES(6,'LIRIL',30,1);

INSERT INTO PRODUCTS VALUES(7,'LOTUS',130,5);

CREATE TABLE ORDERS

(

ORDID INT,

QUANT INT,

PID INT FOREIGN KEY REFERENCES PRODUCTS(PID)

);

INSERT INTO ORDERS VALUES(111,3,3);

INSERT INTO ORDERS VALUES(222,4,5);

INSERT INTO ORDERS VALUES(111,2,2);

INSERT INTO ORDERS VALUES(333,1,1);

INSERT INTO ORDERS VALUES(444,3,4);

INSERT INTO ORDERS VALUES(111,2,3);

SELECT \* FROM ORDERS;

SELECT O.ORDID,O.PID,P.PNAME

FROM ORDERS O,PRODUCTS P

WHERE O.PID = P.PID;

/\*

111 3 HIMALAYA SANITIZER

222 5 LORIAL

111 2 PONDS

333 1 LUX

444 4 SUNSILK

111 3 HIMALAYA SANITIZER

\*/

SELECT O.ORDID,O.PID,P.PNAME,C.CAT\_NAME AS PRODUCT\_CATEGORY\_NAME

FROM ORDERS O,PRODUCTS P,CATEGORIES C

WHERE O.PID = P.PID AND P.CAT\_ID=C.CAT\_ID;

SELECT O.ORDID,O.PID,P.PNAME,C.CAT\_NAME

FROM ORDERS O INNER JOIN PRODUCTS P ON O.PID=P.PID

INNER JOIN CATEGORIES C ON P.CAT\_ID = C.CAT\_ID;

SELECT O.ORDID,O.PID,P.PNAME,C.CAT\_NAME,O.QUANT,P.PRICE

FROM ORDERS O,PRODUCTS P,CATEGORIES C

WHERE O.PID = P.PID AND P.CAT\_ID = C.CAT\_ID;

SELECT O.ORDID,O.PID,P.PNAME,C.CAT\_NAME,O.QUANT,P.PRICE,(O.QUANT\*P.PRICE) AS TOTALPRICE

FROM ORDERS O INNER JOIN PRODUCTS P ON O.PID=P.PID

INNER JOIN CATEGORIES C ON P.CAT\_ID = C.CAT\_ID;

SELECT DISTINCT C.CAT\_NAME

FROM PRODUCTS P,CATEGORIES C

WHERE C.CAT\_ID = P.CAT\_ID AND C.CAT\_ID IN (1,5);

SELECT CAT\_ID,COUNT(CAT\_ID) FROM PRODUCTS

GROUP BY CAT\_ID

HAVING COUNT(CAT\_ID)>=1;

SELECT P.PID,P.PNAME,C.CAT\_ID,C.CAT\_NAME

FROM PRODUCTS P INNER JOIN CATEGORIES C ON C.CAT\_ID=P.CAT\_ID;

SELECT P.CAT\_ID,COUNT(P.CAT\_ID),C.CAT\_NAME

FROM PRODUCTS P

INNER JOIN CATEGORIES C ON P.CAT\_ID = C.CAT\_ID

GROUP BY ;

CREATE TABLE CUSTOMERS

(

CUSTID INT PRIMARY KEY,

CUSTNAME VARCHAR(50),

ORDID INT

);

INSERT INTO CUSTOMERS VALUES(1000,'SHILPA',111);

INSERT INTO CUSTOMERS VALUES(1001,'PAVAN',222);

INSERT INTO CUSTOMERS VALUES(1002,'SANJAY',333);

SELECT \* FROM CUSTOMERS;

SELECT PRODUCTS.PNAME,CUSTOMERS.CUSTNAME

FROM ORDERS INNER JOIN PRODUCTS ON ORDERS.PID = PRODUCTS.PID

INNER JOIN CUSTOMERS ON CUSTOMERS.ORDID = ORDERS.ORDID WHERE CUSTOMERS.CUSTNAME='SHILPA';