SETS IN SQL

CREATE DATABASE oops;

USE oops;

CREATE TABLE Employee

(

id INT NOT NULL PRIMARY KEY,

fname CHAR(25),

lname CHAR(25),

age INT,

emailId CHAR(25),

PhoneNo INT,

City CHAR(25)

);

INSERT INTO Employee

(id,fname,lname,age,emailId,PhoneNo,City)VALUES

(1,'Aman','Proto',32,'aman@gmail.com',898,'Delhi'),

(2,'Yagya','Naryan',44,'yaga@gmail.com',222,'Palam'),

(3,'Rahul','BD',22,'rahul@gmail.com',444,'Kolkata'),

(4,'Jatin','Hermit',31,'jatin@gmail.com',666,'Raipur'),

(5,'PK','Pandey',21,'pk@gmail.com',555,'Jaipur'),

(6,'Jat','Hermit',31,'j@gmail.com',666,'Raipur'),

(7,'P','Pandey',21,'p@gmail.com',555,'Jaipur');

CREATE TABLE Dept1

(

empid INT NOT NULL PRIMARY KEY,

name CHAR(25),

role char(25),

FOREIGN KEY (empid)

REFERENCES Employee (id)

ON DELETE CASCADE

);

INSERT into Dept1

(empid,name,role)values

(1,'A','engineer'),

(2,'B','salesman'),

(3,'C','manager'),

(4,'D','salesman'),

(5,'E','engineer');

create table Dept2

(

empid INT,

name CHAR(25),

role char(25),

FOREIGN KEY (empid)

REFERENCES Employee (id)

ON DELETE CASCADE

);

INSERT into Dept2

(empid,name,role)values

(3,'C','manager'),

(6,'F','marketing'),

(7,'G','salesman');

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

-- SET Opertion

-- Union

-- List out all the employee in the company

Select \* from Dept1

UNION

Select \* from Dept2;

-- List out all the employee in all dept who work as salesman

select \*from Dept1 where role='salesman'

union

select \*from Dept2 where role='salesman';

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

-- Intersection

-- List all the employee who works in both departement

select Dept1.\* from Dept1 INNER JOIN Dept2 using (empid);

SELECT d1.\* FROM Dept1 as d1 INNER JOIN Dept2 as d2 ON d1.empid=d2.empid;

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

-- MINUS

-- List out all the employe who works only in Dept1 but not in Dept2

select Dept1.\* from Dept1 LEFT JOIN Dept2 using (empid)

where Dept2.empid is NULL;

select Dept1.\* from Dept1 LEFT JOIN Dept2 on Dept1.empid=Dept2.empid

where Dept2.empid is NULL;

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