drop database HPP;

create database HPP;

use HPP;

create table department(

d\_id int NOT NULL primary key CHECK (d\_id BETWEEN 1 AND 1000),

d\_name varchar(100)

);

create table professor(

id int NOT NULL primary key CHECK (id BETWEEN 1 AND 1000),

name varchar(100) ,

department\_id int,

salary int CHECK (salary BETWEEN 5000 AND 40000),

FOREIGN KEY (department\_id) REFERENCES department(d\_id)

);

create table course(

c\_id int NOT NULL primary key CHECK (c\_id BETWEEN 1 AND 1000),

d\_name varchar (100),

department\_id int,

credits int CHECK (credits BETWEEN 1 AND 10),

FOREIGN KEY (department\_id) REFERENCES department(d\_id)

);

CREATE TABLE schedule (

professor\_id int NOT NULL,

course\_id int NOT NULL,

semester int NOT NULL,

year int CHECK (year BETWEEN 2000 AND 2017),

FOREIGN KEY (professor\_id)

REFERENCES professor(id),

FOREIGN KEY (course\_id)

REFERENCES course(c\_id)

) ;

INSERT INTO department(d\_id,d\_name) value(1,'Bcom'),(2,'BBA'),(3,'IT'),(4,'MBA'),(5,'MCA');

Select \* from department;

INSERT INTO professor(id,name,salary,department\_id)values(1,'Bala',12000,1),(2,'sankar',13000,1),(3,'siva',34000,3),(4,'selvam',9800,4),(5,'kanesh',8000,5);

INSERT INTO course(c\_id,d\_name,department\_id,credits)values(1,'Commerce',1,5),

(2,'Business Mathematics',1,4),

(3,'Digital Marketing',2,8),

(4,'Java',3,9),

(5,'C++',3,9),

(6,'Data Analytics',4,7),

(7,'Human Resource Management',4,8),

(8,'Operating Systems',5,9),

(9,'Programming & Data Structure',5,8);

INSERT INTO schedule (course\_id,professor\_id,semester,year)values(1,1,1,2008),

(1,3,1,2008),(2,2,2,2005),(5,4,3,2003),(6,3,6,2011),(5,2,5,2012);

SOLUTION :

select distinct p.name,c.d\_name

FROM professor p

JOIN schedule s on s.professor\_id = p.id

JOIN course c on s.course\_id=c.c\_id

WHERE c.department\_id != p.department\_id;