

B. Uday Kiran

CS21B1058

SET - 1

1)

```
CREATE TABLE eStudent (  
  rollNo varchar2(5) NOT NULL,  
  name varchar2(20) DEFAULT NULL,  
  degree varchar2(10) DEFAULT NULL,  
  year number(4,0) DEFAULT NULL,  
  sex varchar2(6) DEFAULT NULL,  
  deptNo varchar2(20) DEFAULT NULL,  
  advisor varchar2(5) DEFAULT NULL  
);  
  
create table eDepartment (  
  deptId varchar2(20) NOT NULL,  
  name varchar2(20) DEFAULT NULL,  
  hod varchar2(5) DEFAULT NULL,  
  phone number(10,0) DEFAULT NULL  
);  
  
insert all  
  into eStudent values('CS21B1058','Uday', 'Btech',2021,'M','CS','CS101')  
  into eStudent values('CS21B1056','Pranav', 'Btech',2021,'M','CS','CS102')  
select 1 from dual;  
  
insert all  
  into eDepartment values('1','CS','CS101','1234567890')  
  into eDepartment values('2','ECE','CS102','1234567897')  
select 1 from dual;  
  
select name,rollNo  
from eStudent  
where advisor=(select hod from eDepartment where name='CS');
```

2)

```
CREATE TABLE eTeaching (  
  empId varchar2(5) NOT NULL,  
  courseId varchar2(8) NOT NULL,
```

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sem varchar2(6) NOT NULL,  
year number(4,0) NOT NULL,  
classRoom varchar2(5)  
);
```

```
CREATE TABLE eProfessor (  
  empId varchar2(5) NOT NULL,  
  name varchar2(20) DEFAULT NULL,  
  sex varchar2(6) DEFAULT NULL,  
  startYear number(4,0) DEFAULT NULL,  
  deptNo varchar2(20) DEFAULT NULL,  
  phone number(10,0) DEFAULT NULL  
);
```

```
select empId,name,startYear from eProfessor where empId in (select empId from  
eTeaching where year=2002)  
minus  
(select t1.empId, t1.name, t1.startYear from  
select empId,name,startYear from eProfessor where empId in (select empId from  
eTeaching where year=2002) t1,  
select empId,name,startYear from eProfessor where empId in (select empId from  
eTeaching where year=2002) t2  
where t1.startYear>t2.startYear);
```

3)

```
CREATE TABLE eEnrollment (  
  rollNo varchar(5) NOT NULL,  
  courseId varchar(8) NOT NULL,  
  sem varchar(6) NOT NULL,  
  year number(4,0) NOT NULL,  
  grade varchar(2) DEFAULT NULL  
);
```

```
select distinct rollNo from eEnrollment where year =2002  
minus  
select distinct rollNo  
from (select rollNo, courseId from eEnrollment where year=2002  
minus  
select rollNo, courseId from eEnrollment where year=2002 and grade='S');
```