-- RollNo: 21MA60R39

-- Name: Mohammed Kashif Mohammed Moizuddin

-- DBMS_ASSIGNMENT_02

---

-- Assumptions Made:

-- 1. Along with students, faculties and staff members also taking courses from academics.

-- 2. There are faculties from departments other than 'CS' but still they are teaching courses

--     of 'CS' department, such as CN, C++, DSA, OS.

-- 3. Basic subjects are prerequisite for advanced subjects.

-- 4. Highest qualification of STAFF is 'BTECH' and that of faculties is 'PHD'.

-- 5. Courses from 'CS' department can be taken by other department students.


```sql
CREATE database college;


create table RegUser(RNo int, RName varchar(20),ROccu varchar(10),
Age int, HighestQual varchar(5), PRIMARY KEY(RNo));


create table Faculty (FId int, ResearchArea varchar(4),
FDept varchar(3), PRIMARY KEY(FId),
FOREIGN KEY fk_std_0(FId) REFERENCES RegUser(RNo));


create table Course(CId int, CName varchar(10), CDuration varchar(10),
CDept varchar(3), FId int, PRIMARY KEY(CId),
FOREIGN KEY fk_std_1(FId) REFERENCES Faculty(FId));


create table Prerequisite (CId int, PreqCId int,
FOREIGN KEY fk_std2(CId) REFERENCES Course (CId),
FOREIGN KEY fk_std3(PreqCId) REFERENCES Course (CId),
PRIMARY KEY(CId, PreqCId));


create table  CourseReg(RNo int, CId int, Score int, PRIMARY KEY(RNo, CId),
FOREIGN KEY fk_std4(RNo) REFERENCES RegUser (RNo),
```

FOREIGN KEY fk_std5(CId) REFERENCES Course (CId));

use college;

show tables;

INSERT INTO RegUser

VALUES(2022001,'Ravi','STUDENT',23,'BTECH');

INSERT INTO RegUser

VALUES(2022002,'Hari','STUDENT',24,'BTECH');

INSERT INTO RegUser

VALUES(2022003,'shami','STUDENT',22,'BTECH');

INSERT INTO RegUser

VALUES(2022104,'John','STUDENT',25,'MTECH');

INSERT INTO RegUser

VALUES(2022105,'Viraj','STUDENT',25,'MTECH');

INSERT INTO RegUser

VALUES(2022206,'Raj','STUDENT',28,'PHD');

INSERT INTO RegUser

VALUES(2022207,'Mike','STUDENT',27,'PHD');

INSERT INTO RegUser

VALUES(2022308,'Munna','STUDENT',30,'PHD');

INSERT INTO RegUser

VALUES(2022309,'Michel','STUDENT',31,'PHD');

```sql
INSERT INTO RegUser
VALUES(2022310,'JACK','STUDENT',31,'MTECH');


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


INSERT INTO RegUser
VALUES(33001,'Shankar','FACULTY',37,'PHD');


INSERT INTO RegUser
VALUES(33002,'PAWAN','FACULTY',33,'PHD');


INSERT INTO RegUser
VALUES(33003,'Nilesh','FACULTY',46,'PHD');


INSERT INTO RegUser
VALUES(33104,'Sundar','FACULTY',55,'MTECH');


INSERT INTO RegUser
VALUES(33105,'Harsh','FACULTY',35,'MTECH');


INSERT INTO RegUser
VALUES(33206,'Monica','FACULTY',38,'PHD');


INSERT INTO RegUser
VALUES(33207,'Tison','FACULTY',53,'PHD');


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


INSERT INTO RegUser
VALUES(44001,'pooja','STAFF',33,'BTECH');
```

```sql
INSERT INTO RegUser

VALUES(44002,'Imad','STAFF',36,'BTECH');


INSERT INTO RegUser

VALUES(44003,'Dhoni','STAFF',34,'BTECH');


select * FROM RegUser;
-- ----------------------------------------------------------------------
INSERT INTO Faculty

VALUES(33001, 'ALGO', 'ECE');


INSERT INTO Faculty

VALUES(33002, 'ML', 'CS');


INSERT INTO Faculty

VALUES(33003, 'AI', 'CS');


INSERT INTO Faculty

VALUES(33104, 'DBMS', 'ME');


INSERT INTO Faculty

VALUES(33105, 'ML', 'EE');


INSERT INTO Faculty

VALUES(33206, 'AI', 'ECE');


INSERT INTO Faculty

VALUES(33207, 'ALGO', 'ME');


-- ----------------------------------------------------------------------
```

select * FROM Faculty;

INSERT INTO Course
Values (55001, 'LA for AI','MEDIUM','ECE',33206);

INSERT INTO Course
Values (55002, 'LA for AI','MEDIUM','CS',33003);

INSERT INTO Course
Values (55003, 'LA for ML','MEDIUM','CS',33002);

INSERT INTO Course
Values (55004, 'ADV AI','MEDIUM','ECE',33206);

INSERT INTO Course
Values (55005, 'ADV AI','LONG','CS',33003);

INSERT INTO Course
Values (55006, 'ADV ML','LONG','CS',33002);

INSERT INTO Course
Values (55007, 'ADV ALGO','LONG','ECE',33001);

INSERT INTO Course
Values (55008, 'BASIC ALGO','SHORT','ECE',33001);

INSERT INTO Course
Values (55009, 'ADV ALGO','LONG','ME',33207);

INSERT INTO Course
Values (55010, 'BASIC ALGO','SHORT','ME',33207);

INSERT INTO Course

Values (55011, 'BASICS ML','MEDIUM','EE',33105);

INSERT INTO Course

Values (55012, 'DSA','MEDIUM','CS',33206);

INSERT INTO Course

Values (55013, 'C++','LONG','CS',33206);

INSERT INTO Course

Values (55014, 'CN','MEDIUM','CS',33105);

INSERT INTO Course

Values (55013, 'OS','LONG','CS',33105);

SELECT * FROM Course;

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

INSERT INTO Prerequisite

VALUES (55005,55002);

INSERT INTO Prerequisite

VALUES (55004,55001);

INSERT INTO Prerequisite

VALUES (55005,55003);

INSERT INTO Prerequisite

VALUES (55007,55008);

```sql
INSERT INTO Prerequisite
VALUES (55009,55010);


SELECT * FROM Prerequisite;
-- ----------------------------------------------------
INSERT INTO CourseReg
VALUES (2022001,55001,95);
INSERT INTO CourseReg
VALUES (2022001,55008,89);
INSERT INTO CourseReg
VALUES (2022001,55006,65);


INSERT INTO CourseReg
VALUES (2022002,55002,58);
INSERT INTO CourseReg
VALUES (2022002,55003,93);
INSERT INTO CourseReg
VALUES (2022002,55006,79);
INSERT INTO CourseReg
VALUES (2022002,55011,99);


INSERT INTO CourseReg
VALUES (2022003,55010,86);
INSERT INTO CourseReg
VALUES (2022003,55003,87);
INSERT INTO CourseReg
VALUES (2022003,55004,77);


INSERT INTO CourseReg
VALUES (2022104,55010,78);
```

INSERT INTO CourseReg

VALUES (2022104,55001,88);

INSERT INTO CourseReg

VALUES (2022104,55005,63);

INSERT INTO CourseReg

VALUES (2022105,55001,59);

INSERT INTO CourseReg

VALUES (2022105,55008,62);

INSERT INTO CourseReg

VALUES (2022105,55006,68);

INSERT INTO CourseReg

VALUES (2022206,55004,78);

INSERT INTO CourseReg

VALUES (2022206,55006,74);

INSERT INTO CourseReg

VALUES (2022206,55009,99);

INSERT INTO CourseReg

VALUES (2022207,55002,100);

INSERT INTO CourseReg

VALUES (2022207,55003,89);

INSERT INTO CourseReg

VALUES (2022207,55007,77);

INSERT INTO CourseReg

VALUES (44003,55004,93);

INSERT INTO CourseReg

VALUES (44003,55006,95);

INSERT INTO CourseReg

VALUES (44003,55007,98);

INSERT INTO CourseReg

VALUES (33206,55005,96);

INSERT INTO CourseReg

VALUES (33206,55006,92);

INSERT INTO CourseReg

VALUES (33206,55009,88);

INSERT INTO CourseReg

VALUES (33207,55002,99);

INSERT INTO CourseReg

VALUES (33207,55003,82);

INSERT INTO CourseReg

VALUES (33207,55011,93);

INSERT INTO CourseReg

VALUES (33203,55002,89);

INSERT INTO CourseReg

VALUES (33203,55003,92);

INSERT INTO CourseReg

VALUES (33203,55011,83);

INSERT INTO CourseReg

VALUES (2022308,55012,89);

INSERT INTO CourseReg

VALUES (2022308,55013,91);

INSERT INTO CourseReg

VALUES (2022308,55015,73);

INSERT INTO CourseReg

VALUES (2022309,55012,100);

INSERT INTO CourseReg

VALUES (2022309,55014,95);

INSERT INTO CourseReg

VALUES (2022309,55015,84);

INSERT INTO CourseReg

VALUES (2022310,55013,74);

-- _____


-- ---------------------------- Q1 -----------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND          cr.CId = c.CId

AND          c.FId = f.FId

AND          y.RNo = f.FId

ORDER BY x.RNo;

| RId | RName | FId | FName | CId | CName |
|---|---|---|---|---|---|
| 33206 | Monica | 33207 | Tison | 55009 | ADV ALGO |
| 33206 | Monica | 33003 | Nilesh | 55005 | ADV AI |
| 33206 | Monica | 33002 | PAWAN | 55006 | ADV ML |
| 33207 | Tison | 33003 | Nilesh | 55002 | LA for AI |
| 33207 | Tison | 33002 | PAWAN | 55003 | LA for ML |
| 33207 | Tison | 33105 | Harsh | 55011 | BASICS ML |
| 44003 | Dhoni | 33206 | Monica | 55004 | ADV AI |
| 44003 | Dhoni | 33001 | Shankar | 55007 | ADV ALGO |
| 44003 | Dhoni | 33002 | PAWAN | 55006 | ADV ML |
| 2022001 | Ravi | 33206 | Monica | 55001 | LA for AI |
| 2022001 | Ravi | 33001 | Shankar | 55008 | BASIC ALGO |
| 2022001 | Ravi | 33002 | PAWAN | 55006 | ADV ML |

| | | | | | |
|---------|-------|-------|---------|-------|--------------|
| 2022002 | Hari | 33002 | PAWAN | 55006 | ADV ML |
| 2022002 | Hari | 33003 | Nilesh | 55002 | LA for AI |
| 2022002 | Hari | 33002 | PAWAN | 55003 | LA for ML |
| 2022002 | Hari | 33105 | Harsh | 55011 | BASICS ML |
| 2022003 | shami | 33002 | PAWAN | 55003 | LA for ML |
| 2022003 | shami | 33206 | Monica | 55004 | ADV AI |
| 2022003 | shami | 33207 | Tison | 55010 | BASIC ALGO |
| 2022104 | John | 33206 | Monica | 55001 | LA for AI |
| 2022104 | John | 33003 | Nilesh | 55005 | ADV AI |
| 2022104 | John | 33207 | Tison | 55010 | BASIC ALGO |
| 2022105 | Viraj | 33002 | PAWAN | 55006 | ADV ML |
| 2022105 | Viraj | 33001 | Shankar | 55008 | BASIC ALGO |
| 2022105 | Viraj | 33206 | Monica | 55001 | LA for AI |
| 2022206 | Raj | 33207 | Tison | 55009 | ADV ALGO |
| 2022206 | Raj | 33206 | Monica | 55004 | ADV AI |
| 2022206 | Raj | 33002 | PAWAN | 55006 | ADV ML |
| 2022207 | Mike | 33003 | Nilesh | 55002 | LA for AI |
| 2022207 | Mike | 33001 | Shankar | 55007 | ADV ALGO |
| 2022207 | Mike | 33002 | PAWAN | 55003 | LA for ML |
| 2022308 | Munna | 33206 | Monica | 55012 | DSA |
| 2022308 | Munna | 33206 | Monica | 55013 | C++ |
| 2022308 | Munna | 33105 | Harsh | 55015 | OS |
| 2022309 | Michel | 33206 | Monica | 55012 | DSA |
| 2022309 | Michel | 33105 | Harsh | 55014 | CN |
| 2022309 | Michel | 33105 | Harsh | 55015 | OS |
| 2022310 | JACK | 33206 | Monica | 55013 | C++ |


-- ----------------------------- Q2 --------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND          cr.CId = c.CId

AND          c.FId = f.FId

AND     y.RNo = f.FId

AND     x.ROccu = 'STUDENT'

ORDER BY x.RNo;

| RId | RName | FId | FName | CId | CName |
|---|---|---|---|---|---|
| 2022001 | Ravi | 33206 | Monica | 55001 | LA for AI |
| 2022001 | Ravi | 33002 | PAWAN | 55006 | ADV ML |
| 2022001 | Ravi | 33001 | Shankar | 55008 | BASIC ALGO |
| 2022002 | Hari | 33003 | Nilesh | 55002 | LA for AI |
| 2022002 | Hari | 33002 | PAWAN | 55003 | LA for ML |
| 2022002 | Hari | 33002 | PAWAN | 55006 | ADV ML |
| 2022002 | Hari | 33105 | Harsh | 55011 | BASICS ML |
| 2022003 | shami | 33002 | PAWAN | 55003 | LA for ML |
| 2022003 | shami | 33206 | Monica | 55004 | ADV AI |
| 2022003 | shami | 33207 | Tison | 55010 | BASIC ALGO |
| 2022104 | John | 33206 | Monica | 55001 | LA for AI |
| 2022104 | John | 33003 | Nilesh | 55005 | ADV AI |
| 2022104 | John | 33207 | Tison | 55010 | BASIC ALGO |
| 2022105 | Viraj | 33206 | Monica | 55001 | LA for AI |
| 2022105 | Viraj | 33002 | PAWAN | 55006 | ADV ML |
| 2022105 | Viraj | 33001 | Shankar | 55008 | BASIC ALGO |
| 2022206 | Raj | 33206 | Monica | 55004 | ADV AI |
| 2022206 | Raj | 33002 | PAWAN | 55006 | ADV ML |
| 2022206 | Raj | 33207 | Tison | 55009 | ADV ALGO |
| 2022207 | Mike | 33003 | Nilesh | 55002 | LA for AI |
| 2022207 | Mike | 33002 | PAWAN | 55003 | LA for ML |
| 2022207 | Mike | 33001 | Shankar | 55007 | ADV ALGO |
| 2022308 | Munna | 33206 | Monica | 55012 | DSA |
| 2022308 | Munna | 33206 | Monica | 55013 | C++ |
| 2022308 | Munna | 33105 | Harsh | 55015 | OS |
| 2022309 | Michel | 33206 | Monica | 55012 | DSA |
| 2022309 | Michel | 33105 | Harsh | 55014 | CN |
| 2022309 | Michel | 33105 | Harsh | 55015 | OS |
| 2022310 | JACK | 33206 | Monica | 55013 | C++ |

-- ----------------------------- Q3 --------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND             cr.CId = c.CId

AND             c.FId = f.FId

AND             y.RNo = f.FId

AND             x.HighestQual = 'BTECH'

ORDER BY x.RNo;

| RId | RName | FId | FName | CId | CName |
|---|---|---|---|---|---|
| 44003 | Dhoni | 33206 | Monica | 55004 | ADV AI |
| 44003 | Dhoni | 33002 | PA... | 55006 | ADV ML |
| 44003 | Dhoni | 33001 | Sha... | 55007 | ADV ... |
| 2022001 | Ravi | 33206 | Monica | 55001 | LA f... |
| 2022001 | Ravi | 33002 | PA... | 55006 | ADV ML |
| 2022001 | Ravi | 33001 | Sha... | 55008 | BASI... |
| 2022002 | Hari | 33003 | Nilesh | 55002 | LA f... |
| 2022002 | Hari | 33002 | PA... | 55003 | LA f... |
| 2022002 | Hari | 33002 | PA... | 55006 | ADV ML |
| 2022002 | Hari | 33105 | Harsh | 55011 | BASI... |
| 2022003 | shami | 33002 | PA... | 55003 | LA f... |
| 2022003 | shami | 33206 | Monica | 55004 | ADV AI |
| 2022003 | shami | 33207 | Tison | 55010 | BASI... |

-- ----------------------------- Q4 --------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND             cr.CId = c.CId

AND             c.FId = f.FId

AND             y.RNo = f.FId

AND             x.HighestQual = 'MTECH'

AND             f.FDept = 'CS'

ORDER BY x.RNo;

-- ----------------------------- Q5 ---------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND            cr.CId = c.CId

AND            c.FId = f.FId

AND            y.RNo = f.FId

AND            x.ROccu <> 'STAFF'

AND            c.CDuration = 'SHORT'

ORDER BY x.RNo;

-- ----------------------------- Q6 ---------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND            cr.CId = c.CId

AND            c.FId = f.FId

AND            y.RNo = f.FId

```
AND             x.HighestQual <> 'PHD'

AND             f.ResearchArea in (

                SELECT ff.ResearchArea

                FROM faculty ff

                WHERE (ff.ResearchArea = 'AI' AND ff.ResearchArea = 'ML')

                OR(ff.ResearchArea = 'ALGO')

                )

ORDER BY x.RNo;
```

| RId | RName | FId | FName | CId | CName |
|-----|-------|-----|-------|-----|-------|
| 44003 | Dhoni | 33001 | Sha... | 55007 | ADV ALGO |
| 2022001 | Ravi | 33001 | Sha... | 55008 | BASIC ALGO |
| 2022003 | shami | 33207 | Tison | 55010 | BASIC ALGO |
| 2022104 | John | 33207 | Tison | 55010 | BASIC ALGO |
| 2022105 | Viraj | 33001 | Sha... | 55008 | BASIC ALGO |

```
-- ----------------------------- Q7 -------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName,  c.Cdept,f.FDept

FROM RegUser x,RegUSer y, RegUSer z,Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND             cr.CId = c.CId

AND             c.FId = f.FId

AND             y.RNo = f.FId

AND             c.CDept='CS'

AND             f.FDept <>'CS'

AND             (SELECT COUNT(*) FROM RegUser WHERE x.RNo = z.RNo)>1

GROUP BY x.RNo, c.CName

ORDER BY x.RNo;
```

| RId | RName | FId | FName | CId | CName | Cdept | FDept |
|-----|-------|-----|-------|-----|-------|-------|-------|
| 2022308 | Munna | 33206 | Monica | 55013 | C++ | CS | ECE |
| 2022308 | Munna | 33206 | Monica | 55012 | DSA | CS | ECE |
| 2022308 | Munna | 33105 | Harsh | 55015 | OS | CS | EE |
| 2022309 | Michel | 33105 | Harsh | 55014 | CN | CS | EE |
| 2022309 | Michel | 33206 | Monica | 55012 | DSA | CS | ECE |
| 2022309 | Michel | 33105 | Harsh | 55015 | OS | CS | EE |
| 2022310 | JACK | 33206 | Monica | 55013 | C++ | CS | ECE |

-- ----------------------------- Q8 --------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND          cr.CId = c.CId

AND          c.FId = f.FId

AND          y.RNo = f.FId

AND          c.CDuration<> 'LONG'

AND          (f.FDept = 'EE' OR f.FDept = 'CS')

ORDER BY x.RNo;

| RId | RName | FId | FName | CId | CName |
|-----|-------|-----|-------|-----|-------|
| 33207 | Tison | 33002 | PA... | 55003 | LA for ML |
| 33207 | Tison | 33003 | Nilesh | 55002 | LA for AI |
| 33207 | Tison | 33105 | Harsh | 55011 | BASICS ML |
| 2022002 | Hari | 33002 | PA... | 55003 | LA for ML |
| 2022002 | Hari | 33003 | Nilesh | 55002 | LA for AI |
| 2022002 | Hari | 33105 | Harsh | 55011 | BASICS ML |
| 2022003 | shami | 33002 | PA... | 55003 | LA for ML |
| 2022207 | Mike | 33002 | PA... | 55003 | LA for ML |
| 2022207 | Mike | 33003 | Nilesh | 55002 | LA for AI |
| 2022309 | Michel | 33105 | Harsh | 55014 | CN |

-- ----------------------------- Q9 --------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName, c.CDept

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND          cr.CId = c.CId

AND          c.FId = f.FId

AND          y.RNo = f.FId

AND          x.HighestQual = 'BTECH'

AND          f.ResearchArea <> 'DBMS'

AND          (C.CDept <> 'EE' AND c.CDept <> 'ME')

ORDER BY x.RNo;

| RId | RName | FId | FName | CId | CName | CDept |
|-----|-------|-----|-------|-----|-------|-------|
| 44003 | Dhoni | 33206 | Monica | 55004 | ADV AI | ECE |
| 44003 | Dhoni | 33002 | PA... | 55006 | ADV ML | CS |
| 44003 | Dhoni | 33001 | Sha... | 55007 | ADV ALGO | ECE |
| 2022001 | Ravi | 33206 | Monica | 55001 | LA for AI | ECE |
| 2022001 | Ravi | 33002 | PA... | 55006 | ADV ML | CS |
| 2022001 | Ravi | 33001 | Sha... | 55008 | BASIC ALGO | ECE |
| 2022002 | Hari | 33003 | Nilesh | 55002 | LA for AI | CS |
| 2022002 | Hari | 33002 | PA... | 55003 | LA for ML | CS |
| 2022002 | Hari | 33002 | PA... | 55006 | ADV ML | CS |
| 2022003 | shami | 33002 | PA... | 55003 | LA for ML | CS |
| 2022003 | shami | 33206 | Monica | 55004 | ADV AI | ECE |

-- ----------------------------- Q10 --------------------------------------------

-- (RId, RName, FId, FName, CId, CName)

SELECT x.RNo AS RId, x.RName, f.FId,y.RName AS FName, cr.CId, c.CName

FROM RegUser x,RegUSer y, Faculty f, CourseReg cr, course c

WHERE x.RNo = cr.RNo

AND          cr.CId = c.CId

AND          c.FId = f.FId

AND          y.RNo = f.FId

AND             x.HighestQual<> 'PHD'

AND             c.CDuration = 'MEDIUM'

AND             (f.FDept = 'EE' OR f.FDept ='ECE')

AND             c.CDept <> 'ME'

AND             (f.ResearchArea = 'AI' OR f.ResearchArea = 'ML' )

ORDER BY x.RNo;

| RId | RName | FId | FName | CId | CName |
|---|---|---|---|---|---|
| 44003 | Dhoni | 33206 | Monica | 55004 | ADV AI |
| 2022001 | Ravi | 33206 | Monica | 55001 | LA for AI |
| 2022002 | Hari | 33105 | Harsh | 55011 | BASICS ML |
| 2022003 | shami | 33206 | Monica | 55004 | ADV AI |
| 2022104 | John | 33206 | Monica | 55001 | LA for AI |
| 2022105 | Viraj | 33206 | Monica | 55001 | LA for AI |

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