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CLASS	622-A

DROP TABLE IF EXISTS Courses;

DROP TABLE IF EXISTS Departments;

CREATE TABLE Departments (

   dept_id INT PRIMARY KEY,

      dept_name VARCHAR(50) UNIQUE NOT NULL

      );

select *from Departments;

      CREATE TABLE Courses (

         course_id INT PRIMARY KEY,

```sql
        course_name VARCHAR(100) NOT NULL,

        dept_id INT NOT NULL,

            FOREIGN KEY (dept_id) REFERENCES
Departments(dept_id)

                );


            select *from Courses;


INSERT INTO Departments (dept_id, dept_name) VALUES

(1, 'Computer Science'),

(2, 'Electrical'),

(3, 'Mechanical'),

(4, 'Civil'),

(5, 'Electronics');


INSERT INTO Courses (course_id, course_name, dept_id) VALUES

(101, 'DBMS', 1),

(102, 'Operating Systems', 1),

(103, 'Power Systems', 2),

(104, 'Digital Circuits', 2),
```

(105, 'Thermodynamics', 3),

(106, 'Fluid Mechanics', 3),

(107, 'Structural Engineering', 4),

(108, 'Surveying', 4),

(109, 'Embedded Systems', 5),

(110, 'VLSI Design', 5);


```sql
SELECT dept_name
FROM Departments
WHERE dept_id IN (
  SELECT dept_id
    FROM Courses
      GROUP BY dept_id
        HAVING COUNT(course_id) >= 2
        );


GRANT SELECT ON db_43sdmf2s3.Courses TO 'viewer_user'@'localhost';
```

```
 9      select *from Departments;
10
11          CREATE TABLE Courses (
12              course_id INT PRIMARY KEY,
13                  course_name VARCHAR(100) NOT NULL,
14                  dept_id INT NOT NULL,
15                      FOREIGN KEY (dept_id) REFERENCES Departments(dept_id)
16                      );
```

course_id	course_name	dept_id
101	DBMS	1
102	Operating Systems	1
103	Power Systems	2
104	Digital Circuits	2
105	Thermodynamics	3
106	Fluid Mechanics	3
107	Structural Engineering	4
108	Surveying	4
109	Embedded Systems	5
110	VLSI Design	5

< Home   MySQL - db_43sdmf2s3   Run >

Items   Queries

Search

Tables

courses

demo

departments

Functions

Procedures

```
 1      DROP TABLE IF EXISTS Courses;
 2      DROP TABLE IF EXISTS Departments;
 3
 4
 5      CREATE TABLE Departments (
 6          dept_id INT PRIMARY KEY,
 7              dept_name VARCHAR(50) UNIQUE NOT NULL
 8              );
 9      select *from Departments;
10
11          CREATE TABLE Courses (
12              course_id INT PRIMARY KEY,
13                  course_name VARCHAR(100) NOT NULL,
14                  dept_id INT NOT NULL,
15                      FOREIGN KEY (dept_id) REFERENCES Departments(dept_id)
16                      );
17                      select *from Courses;
```

dept_id	dept_name
4	Civil
1	Computer Science
2	Electrical
5	Electronics
3	Mechanical

Items   Queries

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Tables

courses

demo

departments

Functions

Procedures

```sql
35    (108, 'Surveying', 4),
36    (109, 'Embedded Systems', 5),
37    (110, 'VLSI Design', 5);
38    SELECT dept_name
39    FROM Departments
40    WHERE dept_id IN (
41        SELECT dept_id
42            FROM Courses
43                GROUP BY dept_id
44                    HAVING COUNT(course_id) >= 2
45                        );
46
47    GRANT SELECT ON db_43sdmf2s3.Courses TO 'viewer_user'@'localhost';
48
49
```

dept_name
Civil
Computer Science
Electrical
Electronics
Mechanical