NAME	AMBUJ SHUKLA
UID	23BCS10884
CLASS/GROUP	622/A
SUBJECT	ADBMS

CODE

```
CREATE TABLE Departments (
    dept_id INT PRIMARY KEY,
    dept_name VARCHAR(50) UNIQUE
);


CREATE TABLE Courses (
    course_id INT PRIMARY KEY,
    course_name VARCHAR(100),
    dept_id INT,
    FOREIGN KEY (dept_id) REFERENCES Departments(dept_id)
);


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);

SELECT * FROM Departments;

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

SELECT * From Courses;

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

SELECT dept_name

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

dept_name ☰
Civil
Computer Science
Electrical
Electronics
Mechanical

```sql
GRANT SELECT ON Courses TO viewer_user;
```