NAME	CHIRAG
UID	23BCS14318
CLASS/GROUP	622/B
SUBJECT	ABMS

CODE:

```
CREATE TABLE Departments (

    dept_id INT PRIMARY KEY,

    dept_name VARCHAR(50) UNIQUE NOT NULL

);


CREATE TABLE Courses (

    course_id INT PRIMARY KEY,

    course_name VARCHAR(100) NOT NULL,

    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 Designs', 5),

(111, 'Computer Networks', 1),

(112, 'Electrical Machines', 2),

(113, 'Microcontrollers', 5);

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 Designs	5
111	Computer Networks	1
112	Electrical Machines	2
113	Microcontrollers	5

SELECT*FROM Departments;

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

SELECT dept_name

FROM Departments

WHERE dept_id IN (

    SELECT dept_id

    FROM Courses

    GROUP BY dept_id

    HAVING COUNT(course_id) > 2

);

dept_name
Computer Science
Electrical
Electronics

GRANT SELECT ON Courses TO Viewer_user;