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UID:	23BCS11142
Subject:	ADBMS
Section:	622-B

Ans1:

Code:

CREATE TABLE Departments (dept_id INT PRIMARY KEY,dept_name VARCHAR(50) NOT NULL UNIQUE);

CREATE TABLE Courses (course_id INT PRIMARY KEY,course_name VARCHAR(100) NOT NULL,dept_id INT NOT NULL,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');

Select * from Departments;

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),

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(107, 'Structural Engineering', 4),
(108, 'Surveying', 4),
(109, 'Embedded Systems', 5),
(110, 'VLSI Design', 5);
Select * from Courses;
SELECT dept_name
FROM Departments
WHERE dept_id IN (
    SELECT dept_id
    FROM Courses
    GROUP BY dept_id
    HAVING COUNT(*) >= 2
);
GRANT SELECT ON Courses TO viewer_user;
```

(a) Department's detail:

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

(b) Courses detail:

course_id	course_name	dept_id
101	DBMS	1
102	Operating Systems	Ī
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

(c)

dept_name	=
Civil	
Computer Science	
Electrical	
Electronics	
Mechanical	