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Subject:	ADBMS
Section:	622-B

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;
```

(A) Department's detail:

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

```

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 Courses;

```

(B) Courses detail:

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
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;
```

(C) Retrieve Departments Offering More Than Two Courses Using Subquery:

dept_name	≡
Civil	
Computer Science	
Electrical	
Electronics	
Mechanical	