ADBMS Exp-2

```
NAME - AKASH
UID - 23BCC70039
Part-A
-- Drop tables if they already exist (optional for re-runs)
DROP TABLE IF EXISTS Courses;
DROP TABLE IF EXISTS Departments;
-- Create Departments table
CREATE TABLE Departments (
  dept_id INT PRIMARY KEY,
  dept name VARCHAR(50) UNIQUE NOT NULL
);
-- Create Courses table
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)
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
Part - B
-- Insert into Departments
INSERT INTO Departments (dept id, dept name) VALUES
(1, 'Computer Science'),
(2, 'Electrical'),
(3, 'Mechanical'),
(4, 'Civil'),
(5, 'Electronics');
-- Insert into Courses
INSERT INTO Courses (course_id, course_name, dept_id) VALUES
(101, 'DBMS', 1),
(102, 'Operating Systems', 1),
(111, 'Data Structures', 1),
(103, 'Power Systems', 2),
(104, 'Digital Circuits', 2),
(112, 'Control Systems', 2),
(105, 'Thermodynamics', 3),
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(106, 'Fluid Mechanics', 3),
(107, 'Structural Engineering', 4),
(108, 'Surveying', 4),
(109, 'Embedded Systems', 5),
(110, 'VLSI Design', 5),
(113, 'Microprocessors', 5);
Part - C
SELECT dept_name
FROM Departments
WHERE dept_id IN (
  SELECT dept_id
  FROM Courses
  GROUP BY dept_id
  HAVING COUNT(course_id) > 2
);
Part - D
```

GRANT SELECT ON Courses TO 'viewer_user';