| Name : Yadwinder Singh | Branch : BE CSE |
|------------------------|----------------------------|
| UID: 23BCS10091 | Sem.: 5 th |
| Subject : ADBMS | Subject code: 23CSP-333 |

```
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)
);
-- PART B: INSERT SAMPLE DATA
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);
-- -----
```

-- PART C: SUBQUERY – Departments with > 2 courses

OUTPUT:

| fieldCount | affectedRows | insertId | info | serverStatus | warningStatus | changedRows |
|------------|--------------|----------|----------------|--------------|---------------|-------------|
| 0 | 0 | 0 | | 10 | 0 | 0 |
| 0 | 0 | 0 | | 10 | 0 | 0 |
| 0 | 0 | 0 | | 10 | 0 | 0 |
| 0 | 0 | 0 | | 10 | 0 | 0 |
| 0 | 5 | 0 | Records: 5 Dup | 10 | 0 | 0 |
| 0 | 10 | 0 | Records: 10 Du | 10 | 0 | 0 |

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

| 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 |
| | | |