NAME	Taimur Kamran
UID	23BCS10578
SECTION	622-A
SUBJECT	ADBMS

```
Ouestion: Querying Departments Based on Course Count using SQL
Code:
DROP TABLE IF EXISTS courses;
DROP TABLE IF EXISTS fb;
CREATE TABLE fb (
dept_id INT PRIMARY KEY,
dept_nameVARCHAR(50) UNIQUE NOT NULL
);
CREATE TABLE courses(
course_id INT PRIMARY KEY,
course_nameVARCHAR(100) NOT NULL,
dept_id INT,
  FOREIGN KEY (dept_id) REFERENCES fb(dept_id)
);
INSERT\ INTO\ fb(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 System', 1),
(111, 'Machine Learning', 1),
(103, 'Power System', 1),
(104, 'Digital Circuits', 2),
(105, 'Thermodynamics', 3),
(106, 'Fluid Mechanics', 3),
(107, 'Structural Engineering', 4),
(108, 'Surveying', 4),
(109, 'Embedded System', 5),
(110, 'VLSI Design', 5);
SELECT dept name
FROM fb
WHERE dept_id IN (
  SELECT dept_id
  FROM courses
  GROUP BY dept_id
  HAVING COUNT(course_id) > 2
);
```

OUTPUT:

```
Output
 Computer Science
```

Available TABLE:

TABLE 1:

Available Tables		
Courses		
course_id	course_name	dept_id
101	DBMS	1
102	Operating System	1
m	Machine Learning	1
103	Power System	1
104	Digital Circuits	2
105	Thermodynamics	3
106	Fluid Mechanics	3
107	Structural Engineering	4
108	Surveying	4
109	Embedded System	5
110	VLSI Design	5

TABLE 2:

