PARIJAT PAL | 23BCC70037 | 23BCC1-A |ADBMS

EXPERIMENT 1.2

Title: Insert Sample Data into Department and Course Tables

Description:

After defining the schema, your task is to populate the

`Departments` and `Courses` tables with at least 5 departments and 10 courses. Ensure that multiple courses are associated with each department.

Input Format:

Pre-existing **Departments** and **Courses** table structures from Problem 2A.

Output Format:

No output — just successful insertion of sample data.

Constraints:

- Use meaningful department names like "Computer Science", "Electrical", "Mechanical", etc.
- Use course names like “DBMS”, “Circuits”, “Thermodynamics” etc.
- Use valid foreign keys linking courses to department.

Sample Input:

Departments

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

Courses

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

Query:

```
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),

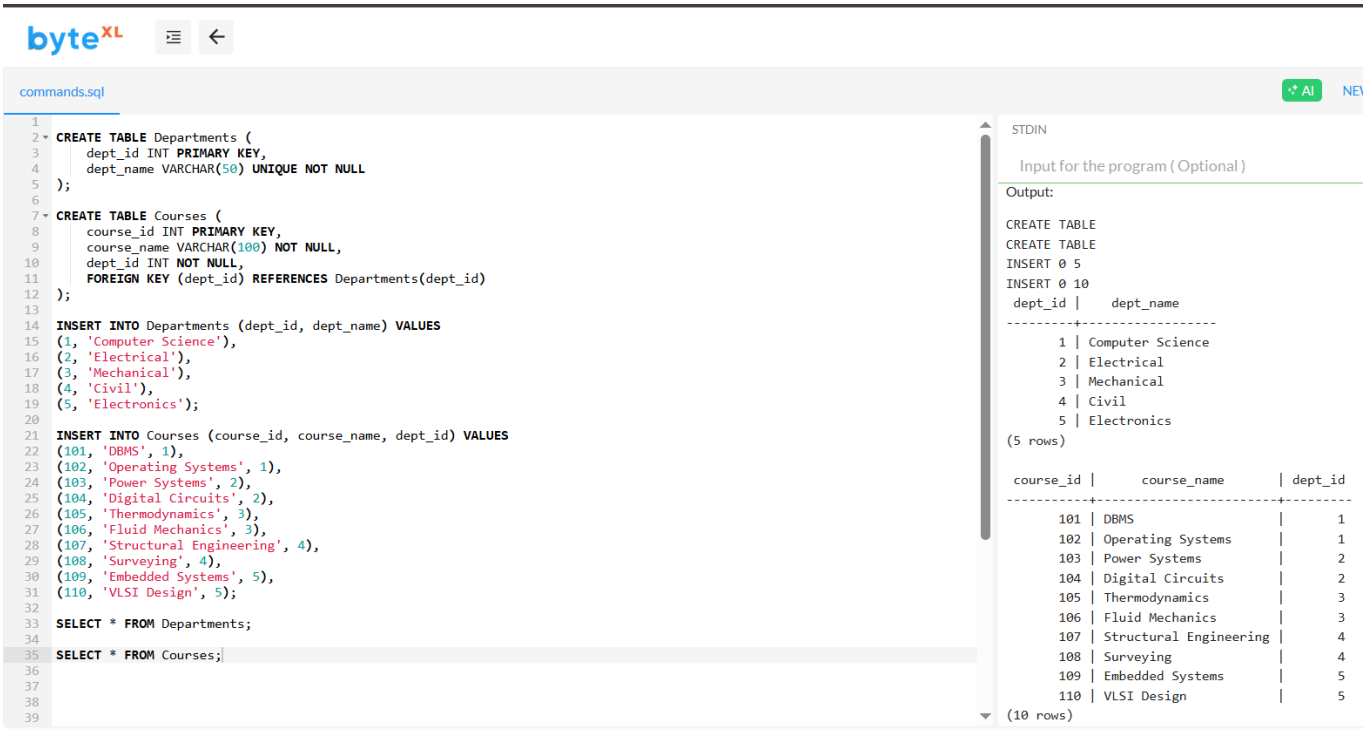
(109, 'Embedded Systems', 5),

(110, 'VLSI Design', 5);

SELECT * FROM Departments;

SELECT * FROM Courses;

Output:



Learning Outcome:

Understand how to associate courses with departments using foreign keys.

Learn to write and run INSERT and SELECT SQL statements.