

```
1 • CREATE SCHEMA `course_enrollment` ;
2 • USE `course_enrollment`;
3
4 • CREATE TABLE student (
5     student_id VARCHAR(10) PRIMARY KEY,
6     student_name VARCHAR(25) NOT NULL
7 );
8
9 • CREATE TABLE course (
10     course_id VARCHAR(10) PRIMARY KEY,
11     course_name VARCHAR(25) NOT NULL,
12     credit_hours INT
13 );
14
15 • CREATE TABLE enrollment (
16     student_id VARCHAR(10),
17     course_id VARCHAR(10),
18     grade CHAR(1),
19     PRIMARY KEY (student_id, course_id),
20     FOREIGN KEY (student_id) REFERENCES student(student_id),
21     FOREIGN KEY (course_id) REFERENCES course(course_id)
22 );
23
```

```
24 • INSERT INTO student (student_id, student_name) VALUES
25     ('S001', 'Thomas Bell'),
26     ('S002', 'Katherine Davis'),
27     ('S003', 'Victor Lee'),
28     ('S004', 'Laura Brown'),
29     ('S005', 'Vincent Roy'),
30     ('S006', 'Liam Chen');
31
32 • INSERT INTO course (course_id, course_name, credit_hours) VALUES
33     ('C001', 'Databases', 3),
34     ('C002', 'Organizational Theory', 3),
35     ('C003', 'Operating Systems', 3),
36     ('C004', 'Advanced Spreadsheets', 3),
37     ('C005', 'Tableau for Beginners', 3);
38
39 • INSERT INTO enrollment (student_id, course_id, grade) VALUES
40     ('S001', 'C001', 'A'),
41     ('S001', 'C002', 'A'),
42     ('S002', 'C003', 'B'),
43     ('S003', 'C004', 'A'),
44     ('S003', 'C005', 'B'),
45     ('S004', 'C001', 'C'),
46     ('S004', 'C002', 'A'),
47     ('S005', 'C001', 'A');
```

```
72 • SELECT
73     c.course_name,
74     COUNT(e.student_id) AS num_students
75 FROM
76     enrollment AS e
77     JOIN course AS c ON e.course_id = c.course_id
78 GROUP BY
79     c.course_name
80 HAVING
81     COUNT(e.student_id) > 3
82 ORDER BY
83     num_students;
84
85 • DELETE FROM enrollment
86 WHERE
87     student_id = 'S004'
88     AND course_id = 'C001';
89
90 • UPDATE enrollment
91 SET grade = 'A'
92 WHERE
93     student_id = 'S002'
94     AND course_id = 'C003';
95
```