```
mysql> USE students_db;
Query OK, 1 row affected (0.01 sec)

mysql> USE students_db;
Database changed
mysql> CREATE TABLE students (student_id INT PRIMARY KEY AUTO_INCREMENT, student_name VARCHAR(100), email VARCHAR(100));
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE subjects (subject_id INT PRIMARY KEY AUTO_INCREMENT, subject_name VARCHAR(100), credits INT);
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE enrollments (enrollment_id INT PRIMARY KEY AUTO_INCREMENT, student_id INT, enrollment_date DATE, total_credits INT, FOREIGN KEY (student_id)
mysql> CREATE TABLE enrollments (enrollment_id INT PRIMARY KEY AUTO_INCREMENT, student_id) into perform the second of the second into perform the second
```

mysql> INSERT INTO enrollment_items (enrollment_id, subject_id, grade) Query OK, 5 rows affected (0.01 sec) Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM students ORDER BY student_name;

```
enrollment_id | student_name |
                                 total_credits
                  Alice
                                               7
              1
              2
                  Bob
                                               6
              3
                  Charlie
                                               5
3 rows in set (0.00 sec)
mysql> SELECT s.student_name, e.enrollment_id
    -> FROM students s
    -> LEFT JOIN enrollments e ON s.student_id = e.student_id;
                 enrollment_id
  student_name
  Alice
  Bob
                              2
  Charlie
                              3
3 rows in set (0.00 sec)
mysql> SELECT e.enrollment_id, s.student_name
    -> FROM enrollments e
    -> RIGHT JOIN students s ON e.student_id = s.student_id;
  enrollment_id | student_name
              1
                  Alice
              2
                  Bob
              3
                  Charlie
3 rows in set (0.00 sec)
mysql> SELECT e.enrollment_id, s.student_name
    -> FROM enrollments e
    -> RIGHT JOIN students s ON e.student_id = s.student_id;
```

```
enrollment_id | student_name
              1
                  Alice
              2
                  Bob
              3
                  Charlie
3 rows in set (0.00 sec)
mysql> SELECT SUM(total_credits) AS total_credits FROM enrollments;
  total_credits
             18
1 row in set (0.00 sec)
mysql> SELECT AVG(credits) AS average_credits FROM subjects;
  average_credits
           3.0000
1 row in set (0.00 sec)
mysql> CREATE VIEW student_enrollment_summary AS
    -> SELECT s.student_name,
              COUNT(e.enrollment_id) AS total_enrollments,
              SUM(e.total_credits) AS total_credits
    ->
    -> FROM students s
    -> LEFT JOIN enrollments e ON s.student_id = e.student_id
    -> GROUP BY s.student_name;
Query OK, 0 rows affected (0.01 sec)
mysql> SELECT * FROM student_enrollment_summary;
```

```
mysql> SELECT * FROM student_enrollment_summary;
 student_name | total_enrollments
                                    | total_credits
 Alice
                                 1
                                                  7
                                 1
  Bob
                                                  6
 Charlie
                                 1
                                                  5
3 rows in set (0.00 sec)
mysql> SELECT student_name, COALESCE(email, 'No Email') AS email_info FROM students;
  student_name | email_info
 Alice
                 alice@example.com
  Bob
                 bob@example.com
 Charlie
                 charlie@example.com
3 rows in set (0.00 sec)
```