# Day 5 – SQL Practice Questions

## 📊 Dataset: Students, Courses, and Enrollments

This dataset involves academic records across three tables to help practice multi-key joins, filtering, and window functions.

### Students Table

|  |  |  |  |
| --- | --- | --- | --- |
| StudentID | StudentName | Gender | City |
| 1 | Riya Sen | F | Mumbai |
| 2 | Amit Patel | M | Ahmedabad |
| 3 | Neha Sharma | F | Delhi |
| 4 | Rahul Verma | M | Bangalore |
| 5 | Anjali Rao | F | Hyderabad |

### Courses Table

|  |  |  |  |
| --- | --- | --- | --- |
| CourseID | CourseName | Category | Fee |
| 101 | SQL Basics | Database | 5000 |
| 102 | Excel for Beginners | Productivity | 3000 |
| 103 | Advanced Python | Programming | 8000 |
| 104 | Data Visualization | Analytics | 7000 |

### Enrollments Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EnrollID | StudentID | CourseID | EnrollDate | Score |
| 1001 | 1 | 101 | 2022-01-10 | 85 |
| 1002 | 2 | 103 | 2022-01-15 | 72 |
| 1003 | 3 | 102 | 2022-01-20 | 78 |
| 1004 | 4 | 104 | 2022-01-22 | 90 |
| 1005 | 1 | 103 | 2022-01-25 | 82 |
| 1006 | 5 | 101 | 2022-01-28 | 88 |

## 📘 Practice Questions

1. List all students along with the courses they are enrolled in.

2. Show average score per course.

3. List students who enrolled in more than one course.

4. Find the highest score obtained in each category of courses.

5. Show students who scored more than 80 in any course.

6. Display total revenue collected per course category.

7. List students and the number of days since their enrollment (from today).

8. Identify any course not yet taken by any student.

9. Rank students by score within each course (use RANK or DENSE\_RANK).

10. Show total enrollments and average score by city.

## 🎯 Bonus Challenge

Write a query to find top 2 scorers in each course category.