# Day 10 – SQL Practice Questions

## 📦 Dataset: Online Courses, Instructors & Enrollments

Today’s dataset explores the world of online learning platforms. You'll analyze instructors, their courses, student enrollments, and revenue generated. Focus is on aggregation, joins, and identifying high/low performing courses and instructors.

### Courses Table

|  |  |  |  |
| --- | --- | --- | --- |
| CourseID | CourseName | InstructorID | Price |
| 101 | SQL Fundamentals | 1 | 50 |
| 102 | Advanced Python | 2 | 75 |
| 103 | Excel for Data Analysis | 1 | 40 |
| 104 | Data Visualization | 3 | 60 |
| 105 | Machine Learning Basics | 2 | 80 |

### Instructors Table

|  |  |
| --- | --- |
| InstructorID | InstructorName |
| 1 | Alice |
| 2 | Bob |
| 3 | Carol |

### Enrollments Table

|  |  |  |
| --- | --- | --- |
| EnrollmentID | CourseID | StudentID |
| 1001 | 101 | 501 |
| 1002 | 102 | 502 |
| 1003 | 101 | 503 |
| 1004 | 103 | 504 |
| 1005 | 104 | 505 |
| 1006 | 105 | 506 |
| 1007 | 105 | 507 |
| 1008 | 104 | 508 |
| 1009 | 103 | 509 |
| 1010 | 102 | 510 |

## 📘 Practice Questions

1. List all courses with their instructor names.

2. Show total number of enrollments per course.

3. Display total revenue generated per course (Price × Enrollments).

4. Show total revenue generated per instructor.

5. Find instructors with no courses listed.

6. Identify courses that have no enrollments.

7. Display average number of enrollments per course for each instructor.

8. Rank courses based on total enrollments (highest to lowest).

9. List instructors whose courses have an average price above $60.

10. Find the most enrolled course for each instructor.

## 🎯 Bonus Challenge

Write a query to list the top 2 revenue-generating courses for each instructor using DENSE\_RANK.