SQL JOINS QUESTIONS

**🟢 INNER JOIN Questions**

1. List all employees who have attended at least one training program.
2. Show employee names with their respective training course names.
3. Get all training records with employee department details.
4. Find the cost of training each employee along with their job grade.
5. List the gender of employees who attended "Communication Workshop".
6. Find the training dates and departments of employees who got trained.
7. Get the list of employees whose training cost is above 1000 along with their hire date.
8. Show employee titles and the number of training courses they attended.

**🟡 LEFT JOIN Questions**

1. List all employees and any training they may have attended (include those with no training).
2. Show all employees along with course names if they attended any.
3. Get a list of employees who never attended a training session.
4. List employee names and cost of training (if any), else show null.
5. Find employees hired before 2014 who may or may not have taken training.
6. Get all employees in the Sales department and the courses they attended (if any).

**🟠 RIGHT JOIN Questions**

1. List all training records and the employees who attended them (even if some Employee IDs are missing in Emp).
2. Find training sessions that were attended by employees who are not listed in the Emp table (data quality check).
3. Show all training courses, whether or not the employee data is present.
4. Get a list of course codes and corresponding employees (if any).

**🔵 FULL OUTER JOIN (Simulated via UNION in MySQL)**

1. Get a full list of employees and training details — show all possible records.
2. Find mismatches: Employees who have no training AND training records with no matching employee.
3. List all unique employees and trainees — include both sides with nulls where there's no match.

**BONUS Complex Logic Join Questions**

1. For each employee, count how many training sessions they attended.
2. Get a list of all suppliers and how many employees they trained.
3. Find the average cost of training for each department.
4. List departments with employees who never received training.
5. Find employees trained by more than one supplier.
6. Show top 5 employees based on total training cost.
7. For each training course, list how many unique employees took it.
8. Identify duplicate training entries (same Employee ID, same course).
9. List all employees who joined after 2014 and took at least one training