

SQL DEVELOPER INTERNSHIP



Task 5: SQL Joins (Inner, Left, Right, Full)

- Objective: Learn to combine data from multiple tables
- Tools: DB Browser for SQLite / MySQL Workbench
- Deliverables: SQL queries using all join types

Hints/Mini Guide:

- 1. Create two related tables (e.g., Customers, Orders)
- 2. Use INNER, LEFT, RIGHT, FULL JOIN
- Outcome: Mastery of merging data

Interview Questions:

- 1. Difference between INNER and LEFT JOIN?
- 2. What is a FULL OUTER JOIN?
- 3. Can joins be nested?
- 4. How to join more than 2 tables?
- 5. What is a cross join?
- 6. What is a natural join?
- 7. Can you join tables without foreign key?
- 8. What is a self-join?
- 9. What causes Cartesian product?
- 10. How to optimize joins?

Key Concepts: Joins, Relationships

L Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

• <u>F Submission Link</u>

★ Task Submission Guidelines

• Time Window:

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10:00 PM

• Self-Research Allowed:

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

• X Debug Yourself:

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

• No Paid Tools:

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

• CitHub Submission:

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a **short README.md** explaining what you did.

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