Task 6:Subqueries and Nested Queries

- **Objective: Use subqueries in SELECT, WHERE, and FROM**
- **Tools :DB Browser for SQLite / MySQL Workbench**
- **Deliverables:SQL queries with nested logic**

Hints/Mini Guide:

1. Use scalar and correlated subqueries
2. Use subqueries inside IN, EXISTS, =

- **Outcome:** Advanced query logic skills

Interview Questions:

1. What is a subquery?
2. Difference between subquery and join?
3. What is a correlated subquery?
4. Can subqueries return multiple rows?
5. How does EXISTS work?
6. How is performance affected by subqueries?
7. What is scalar subquery?
8. Where can we use subqueries?
9. Can a subquery be in FROM clause?
10. What is a derived table?

Key Concepts: **Subqueries, Filtering**

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

- 👉 [Submission Link]

📌 **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.

- 🛠️ **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.

- 📁 **GitHub 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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