Task 4

/DBMS-MySQL

/Feedback

$ **Task_3_Feedback**

/Resources

$ Watch this video **MySQL-Tutorial** to **the end.**

$ from Baraa Course, watch these videos also:
> **SQL Joins Basics**
> **Advanced SQL Joins**
> **Joining Multiple Tables**
> **SQL Subquery**

$ Other Useful resources along this phase:

> **Baraa Course**

> **Eng-Ramy ITI Course**

> **DR-Amr Internal DBs Course**

/TODO

$ *Part A: LeetCode Problems*

Create a file named Task_4_Solutions.sql and paste your SQL code for each problem there.

✓ > *Combine Two Tables*

✓ > *Replace Employee ID With The Unique Identifier*

✓ > *Customer Who Visited but Did Not Make Any Transactions*

✓ > *Project Employees I*

✓ > *Sales Person*

✓ > *Rising Temperature*

✓ > *Average Time of Process per Machine*

✓ > *Students and Examinations*

✓ > *Managers with at Least 5 Direct Reports*

✓ > *Confirmation Rate*

✓ > *Product Sales Analysis III*

> *Market Analysis I*

$ *Part B: Research Questions*

*Answer the following questions in the file named **research.md**.*

1. **UNION vs UNION ALL:**
   - *We learned how to combine result sets. What is the difference between these two commands regarding **Performance** and **Duplicate Handling (Search for it)**?*

2. *Subquery vs JOIN:*
   - *Most Subqueries can be rewritten as Joins. Why might you choose to use a Join instead of a Subquery in a real production environment?*

/Submission Guidelines

> **Inside your IEEE-ZSB-Backend-26 repository, inside the MySQL folder, create a new folder named Task_4 and put your files there:**

```
MySQL\

    Task_4\

            Task_4_Solutions.sql

            research.md

    HTML\

        . . .
```

/How-To-Submit

$ After you finish all of that, push your files to the repo as explained.

$ Submit the GitHub repository link on the task chat on **Discord.**

/Deadline

$ Tuesday, February 24 at **11:59 PM**

Wish you the best.❤️