

SQL Database
Tasks

01 Month Remote Internship



Basic Tasks

Maintain a Github Reposatary of Tasks, Named as YoungDevInterns_Sql_Tasks, Every Task Should be Uploaded on Linkedin & Facebook Mentioning Company's Page

Basic Tasks (Week 1)

- 1. Database & Table Setup
 - Create Internship_DB, tables Employees and Departments.
 - Insert 5 records into each table.
- 2. Basic SELECT Queries
 - Retrieve employees' names and positions.
 - List departments with locations.
- 3. Filtering & Sorting
 - Query employees earning > \$50,000.
 - Sort employees by name, list departments in specific cities.

Intermediate Tasks

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Intermediate Tasks (Week 2-3)

- 1. JOIN Operations
 - Use INNER JOIN to list employees and their departments.
 - Use LEFT JOIN to list all employees, including those without departments.
- 2. Aggregation Functions
 - Calculate average salary, total employees per department, and highest salary in each department.
- 3. Subqueries
 - Find employees earning more than the department's average salary.
 - List departments with more than 3 employees.

Expert Tasks

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Expert Tasks (Week 4)

- 1. Complex JOINs
 - Join Employees, Departments, and Managers to list employees with department and manager details.
- 2. Window Functions
 - Rank employees by salary within their department using ROW_NUMBER().
 - Rank employees across the company using RANK().
- 3. Data Modification & Transactions
 - Update employee salaries by 10%.
 - Use transactions to commit or roll back updates.