### HR SQL Analytics Project

This project contains a collection of SQL queries written to analyze an HR database. It demonstrates the ability to extract insights from employee data using basic to advanced SQL techniques.

Tools & Technologies

* **MySQL**
* **HR Schema Dataset**
* **SQL Query Language**

Project Features

* Retrieve and filter employee records based on salary, department, and job roles.
* Perform **JOIN operations** to combine tables (e.g., Employees, Departments, Jobs).
* Use **aggregate functions** like AVG(), SUM(), COUNT() to analyze group data.
* Implement **subqueries** to find employees based on other employees’ data (e.g., same salary, same manager).
* Apply **Window Functions** (RANK(), DENSE\_RANK(), LEAD(), LAG(), etc.) for advanced salary ranking and trend analysis.
* Discover:
  + Top N highest-paid employees
  + Employees without commissions
  + Departments with no assigned employees
  + First/last employee hired per department

### File Included

* hr project.sql: All SQL queries categorized into various sections (SELECT, JOIN, Subqueries, Window Functions, etc.)

### How to Use

1. Clone or download the project.
2. Open MySQL Workbench or any SQL client.
3. Make sure the HR schema is imported in your MySQL server.
4. Run queries directly from the .sql file to see outputs.

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### Example Queries

-- Get top 5 highest-paid employees  
SELECT employee\_id, first\_name, salary  
FROM employees  
ORDER BY salary DESC  
LIMIT 5;  
  
-- Find departments with no employees assigned  
SELECT d.department\_name  
FROM departments d  
LEFT JOIN employees e ON d.department\_id = e.department\_id  
WHERE e.department\_id IS NULL;

### Author

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