# Big Data – Hadoop - Hive

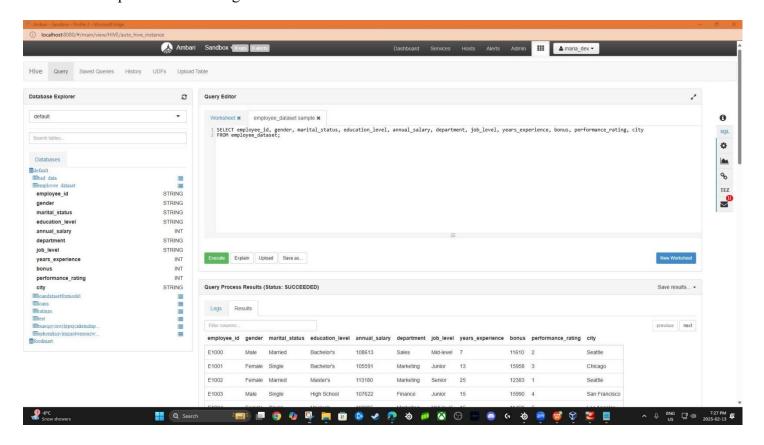
Date: 02/13/2025

#### **Scenario Question:**

You are a data analyst working for a company that manages a large workforce. Your manager has asked you to analyze the employee data to gather insights on employee performance, salary distribution, and department-wise headcount. You are given an employee dataset with the following columns: Employee\_ID, Gender, Marital\_Status, Education\_Level, Annual\_Salary, Department, Job\_Level, Years\_Experience, Bonus, Performance\_Rating, and City that needs to be uploaded to **Hive** (Hadoop) for further analysis.

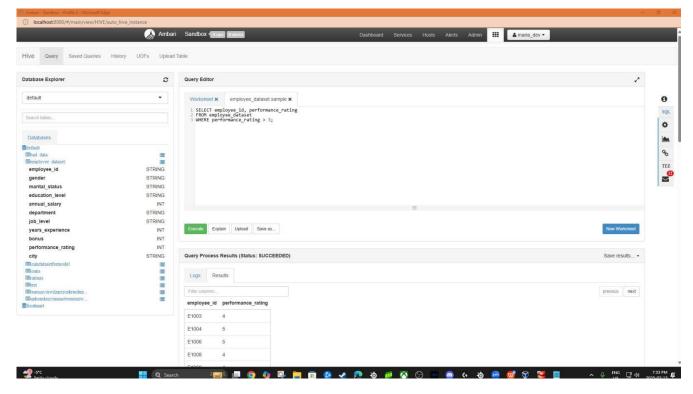
#### Task 1: Select Basic Data

• Your first task is to retrieve a list of all employees along with their key details. This includes their ID, gender, marital status, education level, annual salary, bonus, and performance rating.



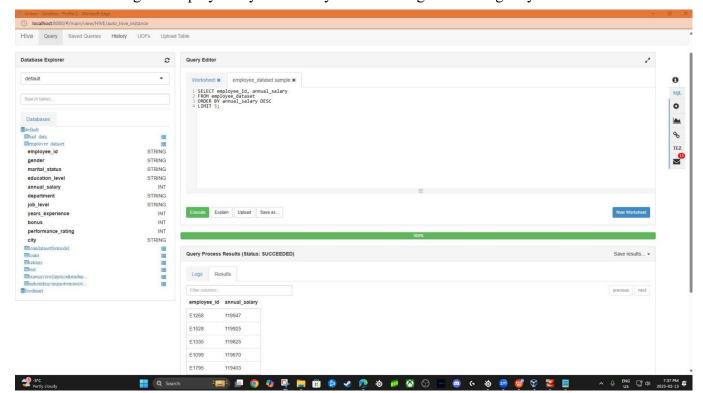
#### Task 2: Filtering Data

Next, you need to filter the data to find employees who have a performance rating of 4
or higher. This information will help you identify top performers in the organization.



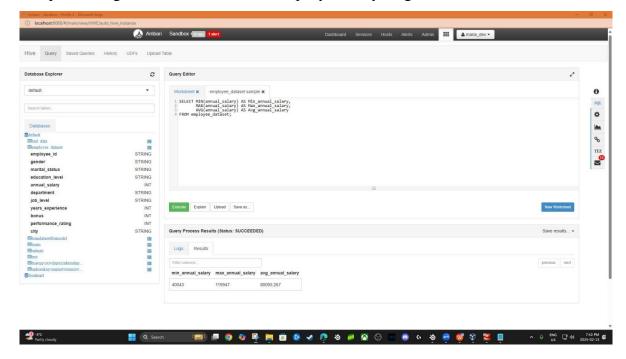
#### **Task 3: Sorting Data**

- You are then tasked with identifying the **top 5 highest-paid employees** in the company.
- Sorting the employees by their salary in descending order will give you this information.



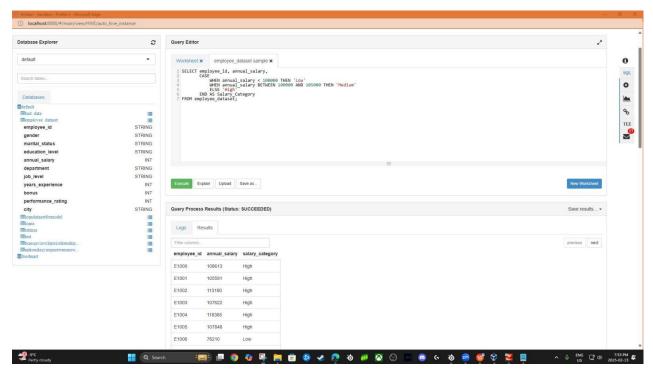
### **Task 4: Salary Statistics**

• Your manager is interested in understanding the distribution of employee salaries. You are required to retrieve the **minimum**, **maximum**, and **average salary** from the dataset to provide a general overview of the company's salary range.



#### **Task 5: Salary Category**

• To make the data more insightful, you are asked to categorize employees into "Low," "Medium," and "High" salary groups based on their annual salary. This categorization will be used in further analysis.



## **Task 6: Grouping by Department**

• Finally, your manager wants to see how employees are distributed across different **departments**. You will need to group the data by department and count the number of employees in each department.

