

30 MySQL Analysis Questions for Your Dataset

Basic Queries

1. Retrieve the list of employees who have left the company (Attrition = 'Yes').
2. Find the average age of employees in each department.
3. Identify employees with a JobSatisfaction rating of 4 and above.
4. List all employees working in the "Research & Development" department.
5. Calculate the total MonthlyIncome generated by employees in each JobRole.

Aggregations

6. Find the total number of employees in each AgeGroup.
7. Calculate the average PercentSalaryHike for employees who work overtime (OverTime = 'Yes').
8. Determine the maximum TotalWorkingYears of employees in the company.
9. Find the department with the highest average EnvironmentSatisfaction rating.
10. Identify the average YearsAtCompany for employees grouped by their EducationField.

Filtering and Sorting

11. List the top 10 highest-paid employees based on their MonthlyIncome.
12. Find employees who have worked in more than 3 companies (NumCompaniesWorked > 3).
13. Retrieve the names of employees who are in the highest JobLevel and belong to the "Sales" department.
14. Identify employees who received a PercentSalaryHike greater than the company's average.
15. List employees with the least DistanceFromHome in each MaritalStatus category.

Date-Based Analysis

16. Calculate the total TrainingTimesLastYear for employees grouped by AgeGroup.
17. Determine the average number of years employees have been in their current role (YearsInCurrentRole) for each JobRole.
18. Identify employees who have not received a promotion (YearsSinceLastPromotion = 0) in the last 5 years.
19. Find employees who have worked with their current manager (YearsWithCurrManager) for more than 10 years.
20. List employees with YearsAtCompany greater than the average working years in the company.

Joins and Subqueries

21. Identify the JobRole with the highest average MonthlyIncome.

22. Retrieve the JobSatisfaction and RelationshipSatisfaction scores of employees whose EnvironmentSatisfaction is below the average.
23. Find the department where employees have the highest PerformanceRating.
24. List all EducationField categories where employees have a JobInvolvement score of 3 or higher.
25. Identify employees in the top 5% of MonthlyIncome who also work overtime.

Advanced Analysis

26. Calculate the attrition rate (Attrition = 'Yes') for each department.
27. Determine the correlation between DistanceFromHome and Attrition.
28. Analyze the average JobSatisfaction of employees who work overtime compared to those who do not.
29. Find employees who have StockOptionLevel greater than 1 and are in SalarySlab = 'High'.
30. Identify the factors that differentiate employees with a PerformanceRating of 4 from others.

Let me know if you need SQL query examples or solutions for any of these questions!