



INTERNSHIP PROJECT

HR DATA ANALYSIS USING SQL

BY

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LOADING THE DATA

 $LOAD\ DATA\ INFILE\ 'C: \ \ 'Data.csv' \\$

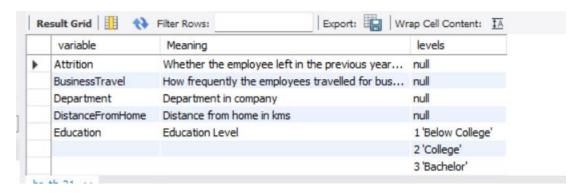
INTO TABLE hr_tb1

FIELDS TERMINATED BY ','

ENCLOSED BY ""

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;



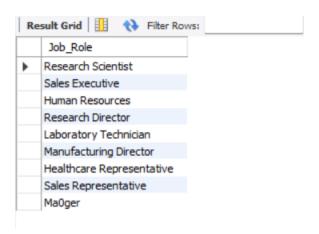
1. Retrieve the total number of employees in the dataset

SELECT COUNT(Empoyee_id) As no_of_Employees FROM hr_tb1;



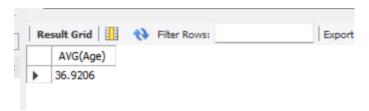
2. List all unique job roles in the dataset.

SELECT DISTINCT(Job_Role) FROM hr_tb1;



3. Find the average age of employees.

SELECT AVG(Age) FROM hr_tb1;

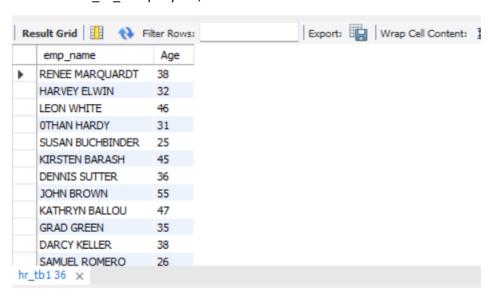


4. Retrieve the names and ages of employees who have worked at the company for more than 5 years.

SELECT emp name, Age

FROM hr tb1

WHERE Years At Company > 5;



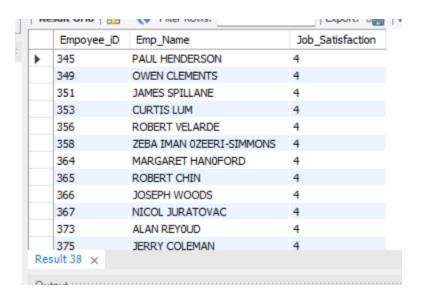
5. Get a count of employees grouped by their department

SELECT COUNT(empoyee_id), Department FROM hr_tb1 GROUP BY Department;



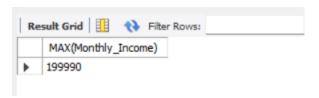
6. List employees who have 'High' Job Satisfaction.

SELECT hr_tb1.Empoyee_iD,Emp_Name,hr_tb2.Job_Satisfaction
FROM hr_tb1 JOIN hr_tb2 ON hr_tb1.Empoyee_iD =
hr_tb2.Employee_ID ORDER BY Job_Satisfaction DESC;



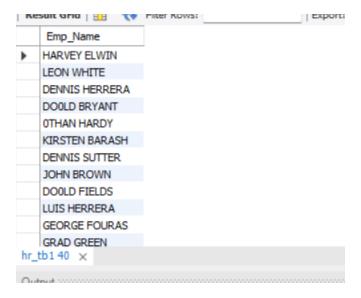
7. Find the highest Monthly Income in the dataset.

SELECT MAX(Monthly_Income) FROM hr_tb1;



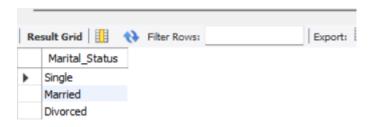
8. List employees who have 'Travel_Rarely' as their BusinessTravel type.

SELECT Emp_Name FROM hr_tb1 WHERE Business_Travel IN ('Travel_Rarely');



9. Retrieve the distinct MaritalStatus categories in the dataset.

SELECT DISTINCT(Marital_Status) FROM hr_tb1;



10. Get a list of employees with more than 2 years of work experience but less than 4 years in their current role.

SELECT Emp_Name FROM hr_tb1 WHERE Total_Working_Years IN(2,4);



11. List employees who have changed their job roles within the company (JobLevel and JobRole differ from their previous job).

SELECT Emp_Name

FROM hr_tb1

WHERE Job_Level != Job_Role

LIMIT 0, 50000;



13. Retrieve the top 5 employees with the highest MonthlyIncome

SELECT Monthly_Income, Emp_Name

FROM hr_tb1

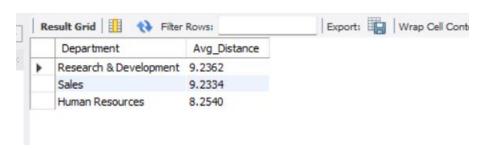
ORDER BY Monthly_Income DESC

LIMIT 5;



12. Find the average distance from home for employees in each department.

SELECT Department, AVG(Distance_From_HOME) AS Avg_Distance FROM hr_tb1 GROUP BY Department;



13. List the employees with the highest and lowest Environment Satisfaction.

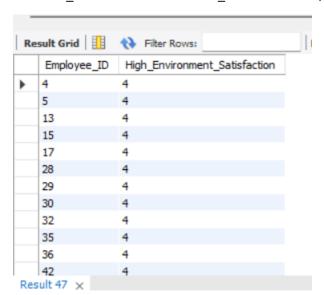
SELECT Employee_ID, Environment_Satisfaction AS High_Environment_Satisfaction

FROM hr_tb2 Where Environment_Satisfaction = 4

UNION ALL

SELECT Employee_ID,Environment_Satisfaction AS Low_Environment_Satisfaction

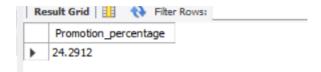
FROM hr_tb2 Where Environment_Satisfaction = 1;



14. Calculate the percentage of employees who have had a promotion in the last year

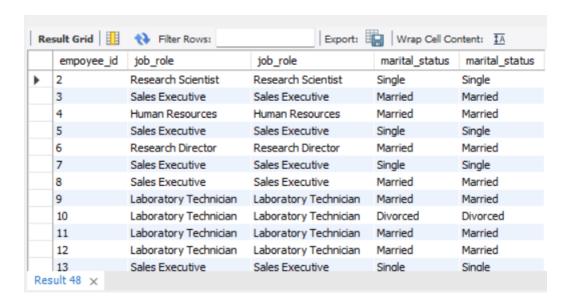
SELECT COUNT(*)*100/(SELECT COUNT(*) FROM hr_tb1) AS

Promotion_percentage FROM hr_tb1 WHERE Years_Since_Last_Promotion=1;



15. Find the employees who have the same Job Role and Marital Status

SELECT a.empoyee_id, a.job_role, b.job_role, a.marital_status, b.marital_status from hr_tb1 a join hr_tb1 b on a.Empoyee_ID=b.Empoyee_ID where a.Job_Role=b.job_role and a. Marital_Status=b.Marital_Status;



17. List the employees with the highest Total Working Years who also have a Performance Rating of 4.

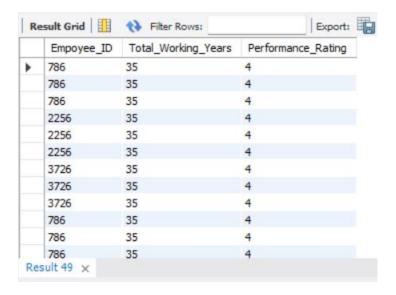
SELECT hr_tb1.Empoyee_ID,hr_tb1.Total_Working_Years,

Performance_Rating FROM hr_tb1 JOIN hr_tb2 ON

hr_tb1.Empoyee_ID =hr_tb2.Employee_ID WHERE

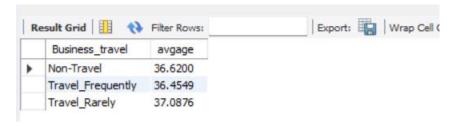
hr_tb2.Performance_Rating=4

ORDER BY hr_tb1.Total_Working_Years DESC;



18. Calculate the average Age and JobSatisfaction for each BusinessTravel type.

select distinct Business_travel,avg(age)over(partition by Business_travel)as avgage from hr_tb1;



19. Retrieve the most common Education Field among employees.

SELECT Education_Field FROM hr_tb1 GROUP BY Education_Field ORDER

BY Education_Field DESC;



20. List the employees who have worked for the company the longest but haven't had a promotion.

SELECT Empoyee ID, MAX(Years At Company) AS Max no of years FROM

hr tb1 WHERE Years Since Last Promotion =0 GROUP BY Empoyee ID

ORDER BY Max_no_of_years DESC;

Result Grid		
	Empoyee_ID	Max_no_of_years
•	705	33
	2175	33
	3645	33
	216	31
	1686	31
	3156	31
	878	26
	2348	26
Res	2010 cult 52 V	76