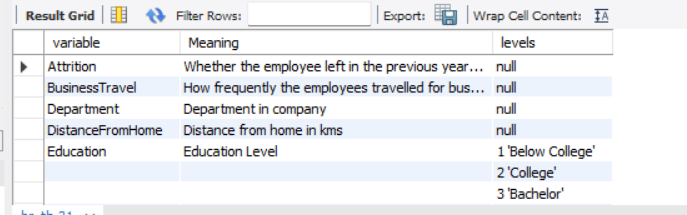
# INTERNSHIP PROJECT

**BY**

**HR DATA ANALYSIS USING SQL**

**Thenmozhi R**

LOADING THE DATA



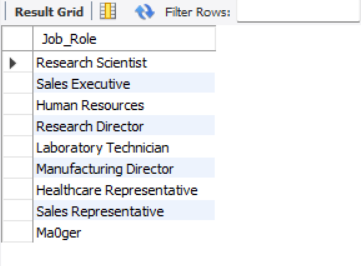
1. Retrieve the total number of employees in the dataset

SELECT COUNT(Empoyee\_id) As no\_of\_Employees FROM hr\_tb1;



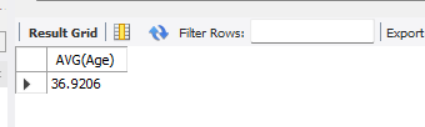
2. List all unique job roles in the dataset.

SELECT DISTINCT(Job\_Role) FROM hr\_tb1;



3. Find the average age of employees.

SELECT AVG(Age) FROM hr\_tb1;

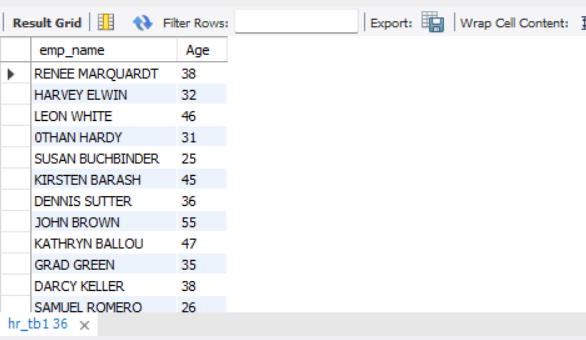


4. Retrieve the names and ages of employees who have worked at the company for more than 5 years.

SELECT emp\_name, Age

FROM hr\_tb1

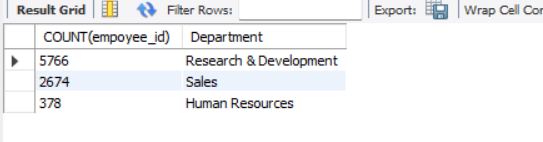
WHERE Years\_At\_Company > 5;



5. Get a count of employees grouped by their department

SELECT COUNT(empoyee\_id),Department FROM hr\_tb1 GROUP BY

Department;

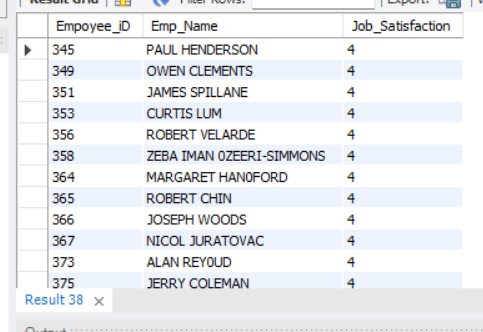


6. List employees who have 'High' Job Satisfaction.

SELECT hr\_tb1.Empoyee\_iD,Emp\_Name,hr\_tb2.Job\_Satisfaction

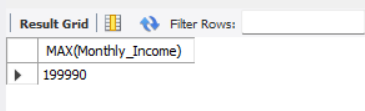
FROM hr\_tb1 JOIN hr\_tb2 ON hr\_tb1.Empoyee\_iD =

hr\_tb2.Employee\_ID ORDER BY Job\_Satisfaction DESC;



7. Find the highest Monthly Income in the dataset.

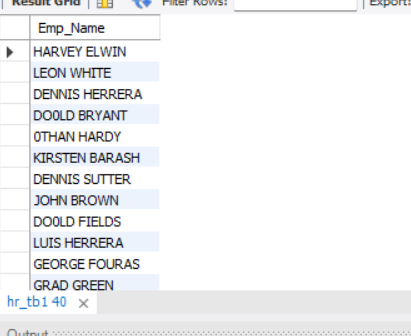
SELECT MAX(Monthly\_Income) FROM hr\_tb1;



8. List employees who have 'Travel\_Rarely' as their BusinessTravel type.

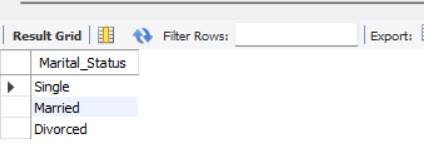
SELECT Emp\_Name FROM hr\_tb1 WHERE Business\_Travel IN

('Travel\_Rarely');



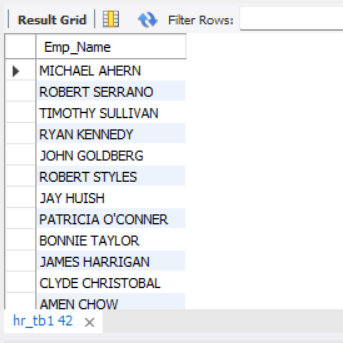
9. Retrieve the distinct MaritalStatus categories in the dataset.

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);



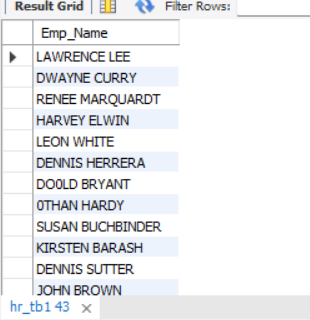
11. List employees who have changed their job roles within the company (JobLevel and JobRole differ from their previous job).

SELECT Emp\_Name

FROM hr\_tb1

WHERE Job\_Level != Job\_Role

LIMIT 0, 50000;



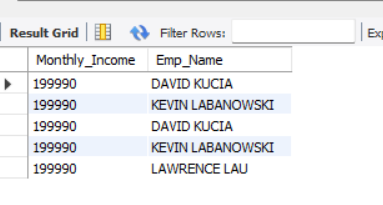
12. Retrieve the top 5 employees with the highest MonthlyIncome

SELECT Monthly\_Income, Emp\_Name

FROM hr\_tb1

ORDER BY Monthly\_Income DESC

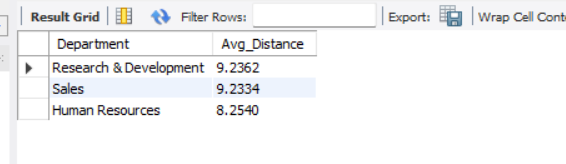
LIMIT 5;



13. 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;



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

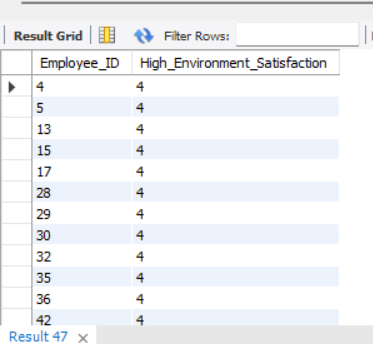
SELECT Employee\_ID,Environment\_Satisfaction AS High\_Environment\_Satisfaction

FROM hr\_tb2 Where Environment\_Satisfaction = 4

UNION ALL

SELECT Employee\_ID,Environment\_Satisfaction AS Low\_Environment\_Satisfaction

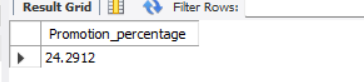
FROM hr\_tb2 Where Environment\_Satisfaction = 1 ;



15. 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;

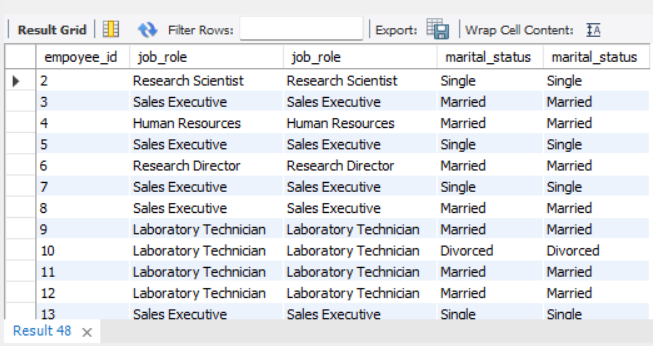


16. Find the employees who have the same Job Role and Marital Status

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.

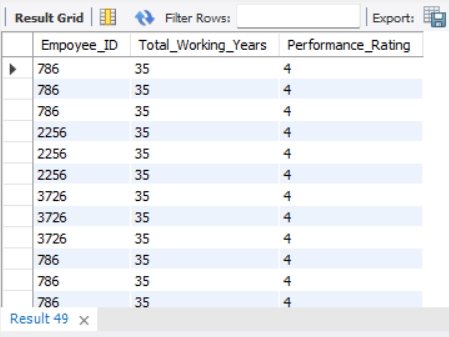
SELECT hr\_tb1.Empoyee\_ID,hr\_tb1.Total\_Working\_Years,

Performance\_Rating FROM hr\_tb1 JOIN hr\_tb2 ON

hr\_tb1.Empoyee\_ID =hr\_tb2.Employee\_ID WHERE

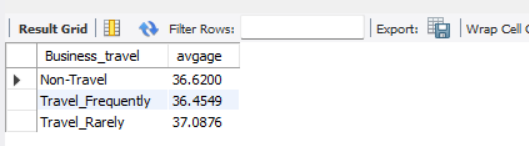
hr\_tb2.Performance\_Rating=4

ORDER BY hr\_tb1.Total\_Working\_Years DESC ;



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

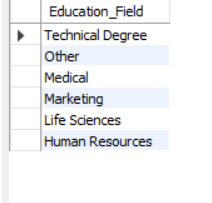
select distinct Business\_travel,avg(age)over(partition by Business\_travel)as avgage from hr\_tb1;



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 Employee\_ID

ORDER BY Max\_no\_of\_years DESC ;

