



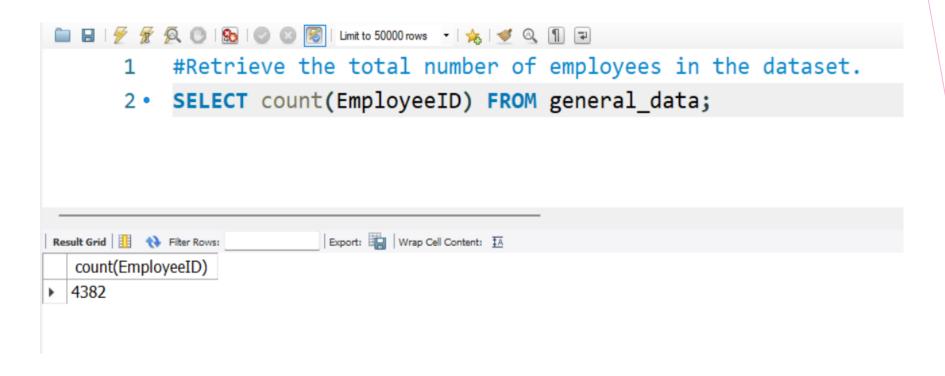
Task 1: HRAnalysis SQL Internship at Psylia

By Utsav Raj



1. Retrieve the total number of employees in the dataset.

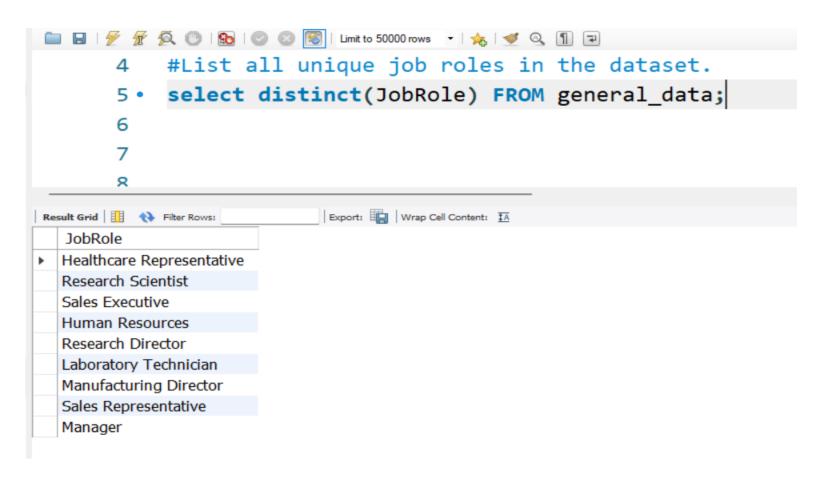
SELECT count(EmployeeID) FROM general_data;





2. List all unique job roles in the dataset.

select distinct(JobRole) FROM general_data;



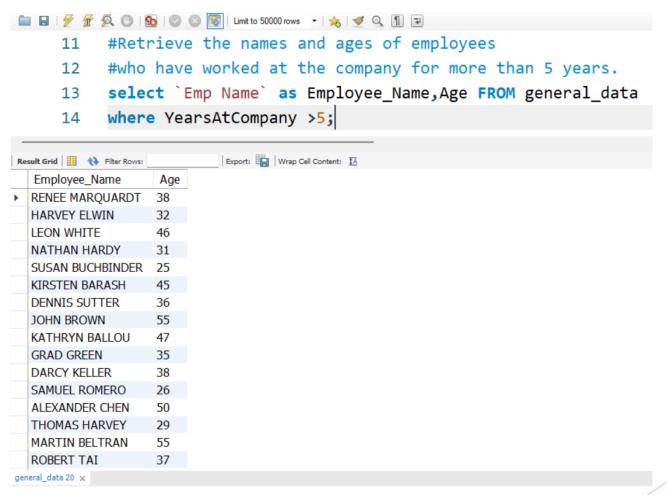


3. Find the average age of employees.

select avg(age) as average_age FROM general_data;



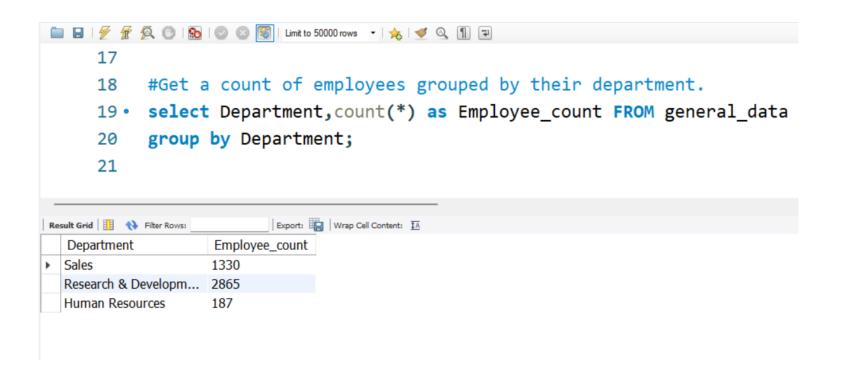
- 4.Retrieve the names and ages of employees who have worked at the company for more than 5 years.
 - select `Emp Name` as Employee_Name,Age FROM
 general_data where YearsAtCompany >5;





5. Get a count of employees grouped by their department.

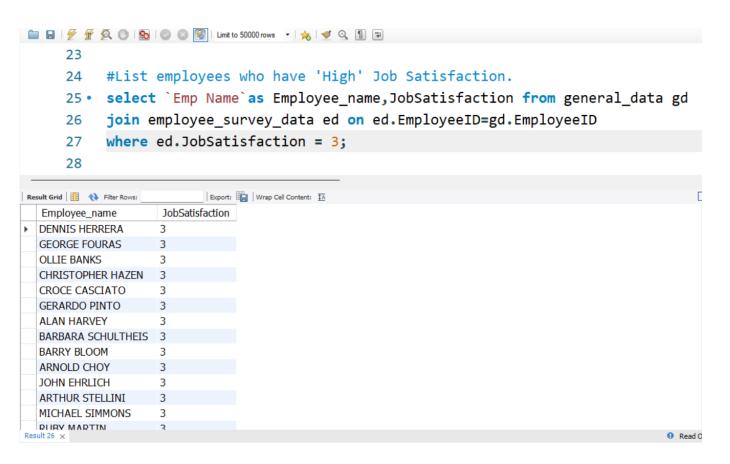
select Department, count(*) as Employee_count FROM
general_data group by Department;





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

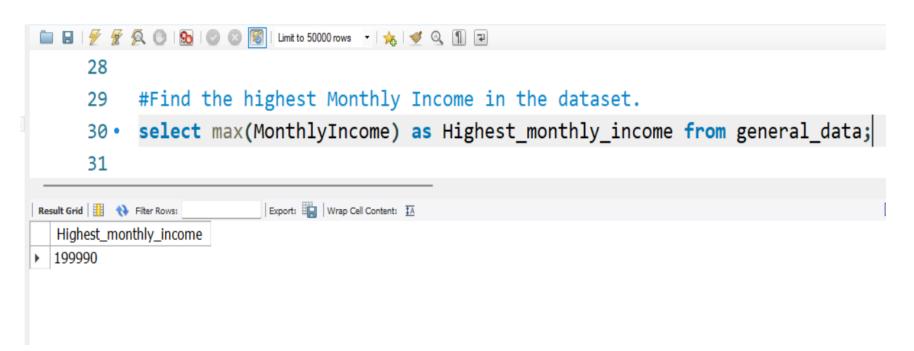
select `Emp Name` as Employee_name, JobSatisfaction from general_data gd join employee_survey_data ed on ed. EmployeeID=gd. EmployeeID where ed. JobSatisfaction = 3;





7. Find the highest Monthly Income in the dataset.

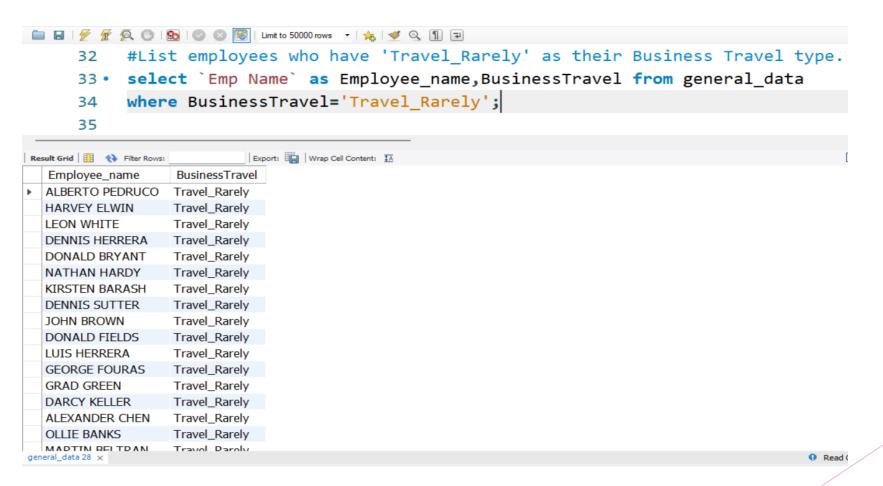
select max(MonthlyIncome) as Highest_monthly_income from general_data;





8. List employees who have 'Travel_Rarely' as their Business Travel type.

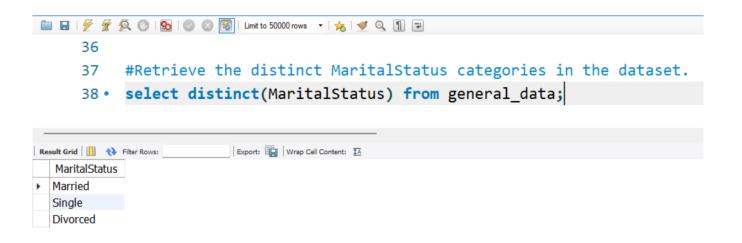
select `Emp Name` as Employee_name,BusinessTravel from
general_data where BusinessTravel='Travel_Rarely';





9. Retrieve the distinct Marital Status categories in the dataset.

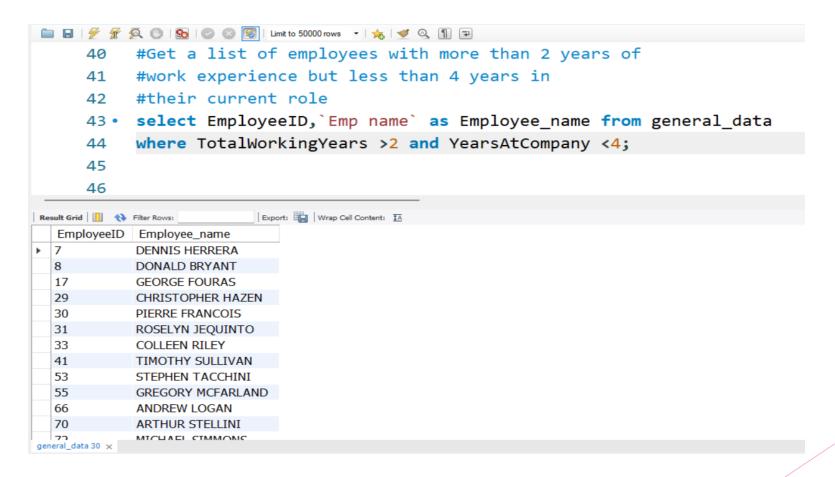
select distinct(MaritalStatus) from general_data;





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

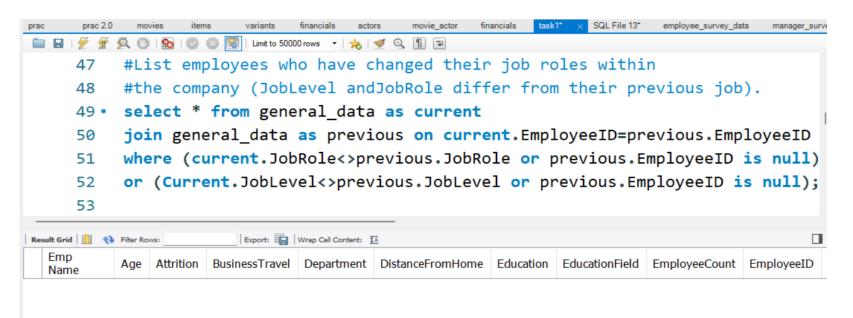
select EmployeeID, `Emp name` as Employee_name from
general_data where TotalWorkingYears > 2 and YearsAtCompany < 4;</pre>





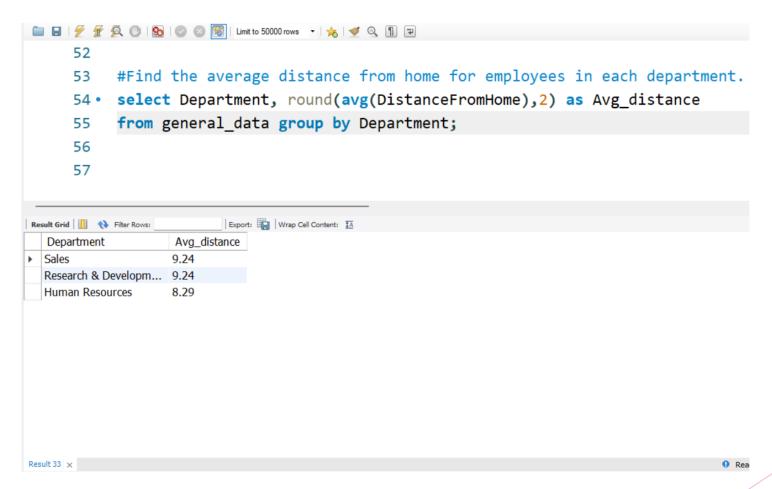
11. List employees who have changed their job roles within the company (Job Level and Job Role differ from their previous job).

select * from general_data as current join general_data as previous on current.EmployeeID=previous.EmployeeIDwhere (current.JobRole<>previous.JobRole or previous.EmployeeID is null)or (Current.JobLevel<>previous.JobLevel or previous.EmployeeID is null);





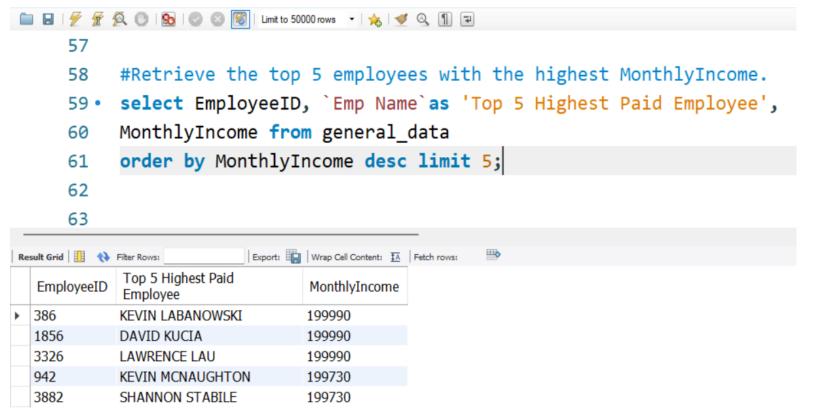
- 12. Find the average distance from home for employees in each department.
- select Department, round(avg(DistanceFromHome),2) as Avg_distance from general_data group by Department;





13. Retrieve the top 5 employees with the highest Monthly Income.

select EmployeeID, `Emp Name` as 'Top 5 Highest Paid Employee', MonthlyIncome from general_data order by MonthlyIncome desc limit 5;





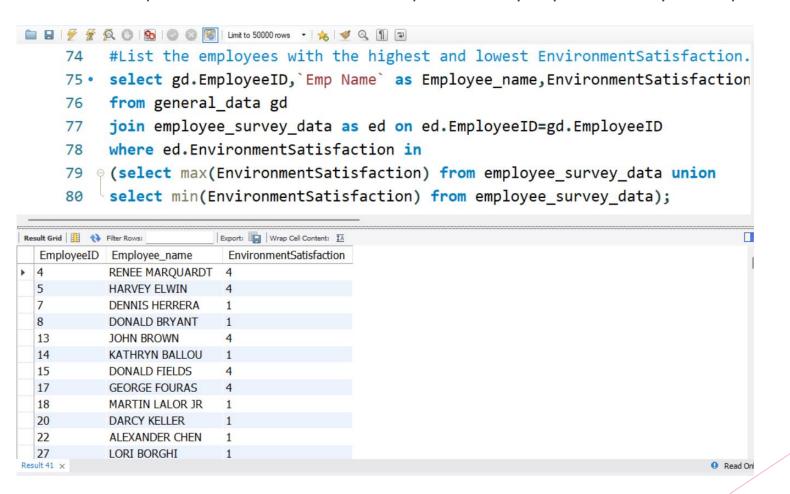
14. Calculate the percentage of employees who have had a promotion in the last year.

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                           63
                                                       #Calculate the percentage of employees who have had a promotion
                           65
                                                       #in the last year.
                                                       select count(*) as Total_employees,
                                                       count(case when YearsSinceLastPromotion<=1 then 1 end) as</pre>
                           67
                                                      Count promotion last year,
                           68
                                                        (count(case when YearsSinceLastPromotion<=1 then 1 end)*100/count(*))</pre>
                                                       as Percentage from general data;
                           70
                           71
                           72
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            4382
                                                                     2792
                                                                                                                                                                  63.7152
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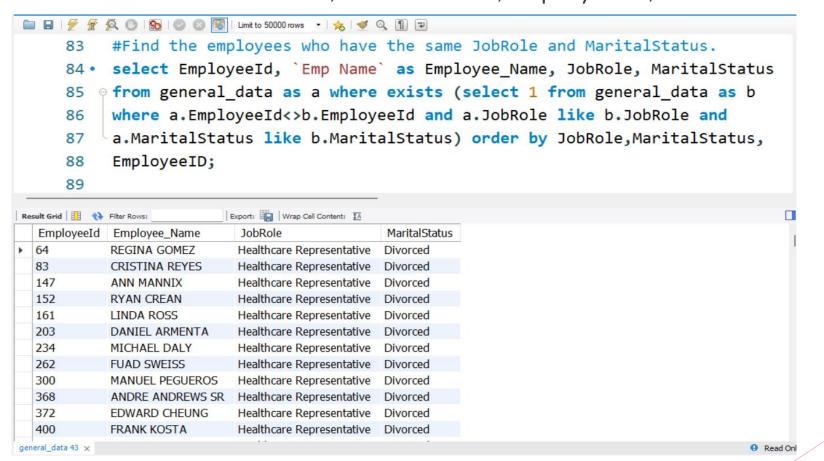
15. List the employees with the highest and lowest Environment Satisfaction.

select gd.EmployeeID, `Emp Name` as Employee_name,
EnvironmentSatisfaction from general_data gdjoin employee_survey_data as ed on
ed.EmployeeID=gd.EmployeeID where ed.EnvironmentSatisfaction in(select
max(EnvironmentSatisfaction) from employee_survey_data unionselect
min(EnvironmentSatisfaction) from employee_survey_data);





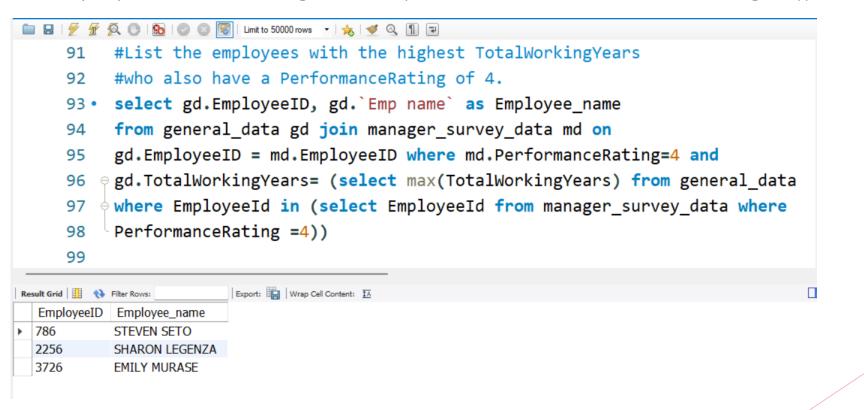
16. Find the employees who have the same Job Role and Marital Status.
select Employeeld, 'Emp Name' as Employee_Name, JobRole,
MaritalStatusfrom general_data as a where exists (select 1 from general_data as bwhere a.Employeeld<>b.Employeeld and a.JobRole like b.JobRole anda.MaritalStatus like b.MaritalStatus) order by JobRole,MaritalStatus,EmployeeID;





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

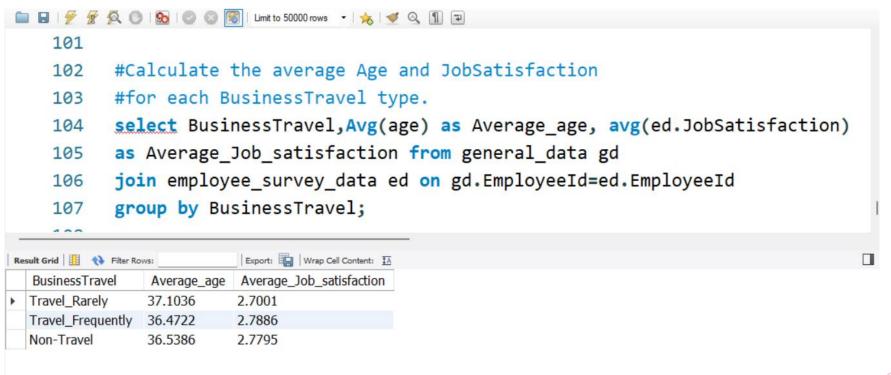
select gd.EmployeeID, gd.`Emp name` as Employee_namefrom general_data gd join manager_survey_data md on gd.EmployeeID = md.EmployeeID where md.PerformanceRating=4 and gd.TotalWorkingYears= (select max(TotalWorkingYears) from general_datawhere EmployeeId in (select EmployeeId from manager_survey_data where PerformanceRating =4))





18. Calculate the average Age and Job Satisfaction for each Business Travel type.

select BusinessTravel,Avg(age) as Average_age, avg(ed.JobSatisfaction)as Average_Job_satisfaction from general_data gd join employee_survey_data ed on gd.EmployeeId=ed.EmployeeId group by BusinessTravel;





19. Retrieve the most common Education Field among employees.

select EducationField,count(EducationField) as most_common_fieldfrom general_data group by EducationFieldorder by most_common_field desc limit 1;

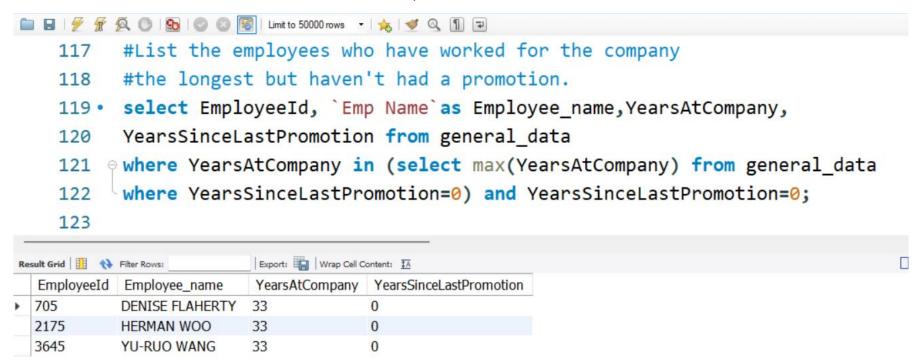
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    110
    111
            #Retrieve the most common EducationField among employees.
            select EducationField, count(EducationField) as most common field
    112 •
            from general_data group by EducationField
    113
            order by most_common_field desc limit 1;
    114
    115
Result Grid Filter Rows:
                           Export: Wrap Cell Content: 🖽 Fetch rows:
  EducationField most_common_field
Life Sciences
             1806
```



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

select Employeeld, `Emp Name`as

Employee_name,YearsAtCompany,YearsSinceLastPromotion from general_datawhere YearsAtCompany in (select max(YearsAtCompany) from general_datawhere YearsSinceLastPromotion=0) and YearsSinceLastPromotion=0;







Thank You

SQL Internship at Psyliq

By **Utsav Raj**