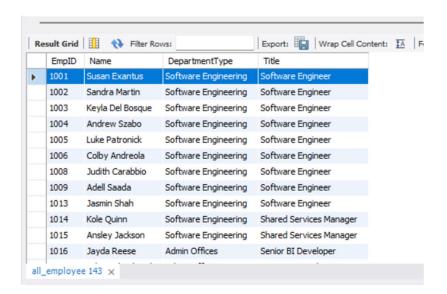
Employees/HR Analytics SQL Project

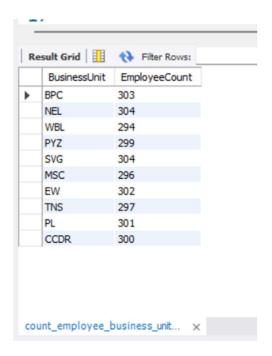
1. List all active employees along with their department and job title.

SELECT * FROM all employee;



2. Retrieve the count of employees in each business unit.

SELECT * FROM count_employee_business_unit;



3. Find the average current employee rating across all departments.

SELECT * FROM average_employee_rating_department;

department	Avg_Rating
Software Engineering	2.9
Admin Offices	3.0
Production	3.0
Executive Office	2.8
IT/IS	3.0
Sales	2.9

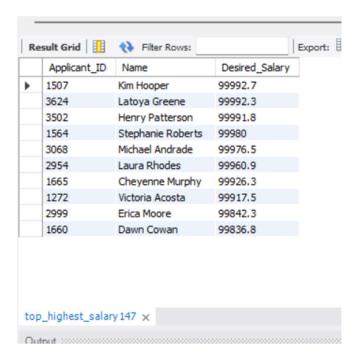
4. List employees who have not completed any training programs.

SELECT * FROM not_complete_training_programs;

Re	esult Grid	Filter Rows:		Export: Wrap Cell Conter
	Employee_ID	Name	Training_Type	Training_Outcome
•	1003	Keyla Del Bosque	Internal	Incomplete
	1008	Judith Carabbio	External	Incomplete
	1009	Adell Saada	Internal	Incomplete
	1010	Kamari Hunter	External	Incomplete
	1013	Jasmin Shah	External	Incomplete
	1014	Kole Quinn	External	Incomplete
	1018	Alan Haynes	Internal	Incomplete
	1025	Giovanni Jenkins	Internal	Incomplete
	1026	Alexis Moss	External	Incomplete
	1027	Joanna Murphy	External	Incomplete
	1028	Joseph Schmidt	Internal	Incomplete
	1033	Blaine Brooks	Internal	Incomplete
	1044	Shyanne Stark	External	Incomplete
	1052	Jacquelyn Johns	Internal	Incomplete
	4050	ning_program ×		

5. Retrieve the top 10 applicants with the highest desired salary.

SELECT * FROM top_highest_salary;



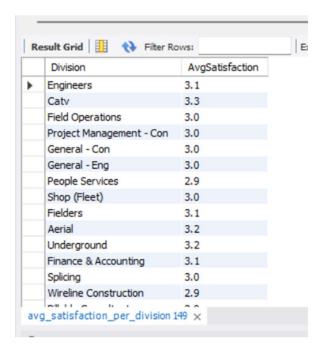
6. Find the number of training programs each employee has completed.

SELECT * FROM training program complete;

	EmpID	Name	TrainingCount	
•	1001	Susan Exantus	1	
	1002	Sandra Martin	1	
	1003	Keyla Del Bosque	1	
	1004	Andrew Szabo	1	
	1005	Luke Patronick	1	
	1006	Colby Andreola	1	
	1007	Edward TRUE	1	
	1008	Judith Carabbio	1	
	1009	Adell Saada	1	
	1010	Kamari Hunter	1	
	1011	Sarah Malone	1	
	1012	Skyler Blackwell	1	
	1013	Jasmin Shah	1	
	1014	Kole Quinn	1	
tra	ining pro	gram_complete 148	÷	

7. Find the average satisfaction score per division.

SELECT * FROM avg_satisfaction_per_division;



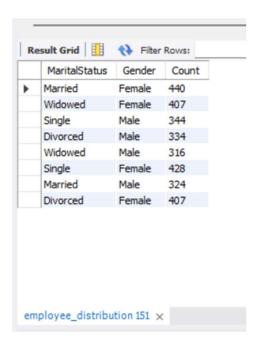
8. List all applicants who have more than 5 years of experience and a desired salary less than \$60,000.

SELECT * FROM exprience less salary;



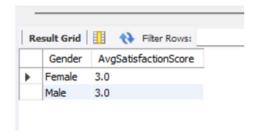
9. Show employee distribution by marital status and gender.

SELECT * FROM employee_distribution;



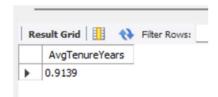
10. Compare average satisfaction score between male and female employees.

SELECT * FROM avg_satisfaction_gender;



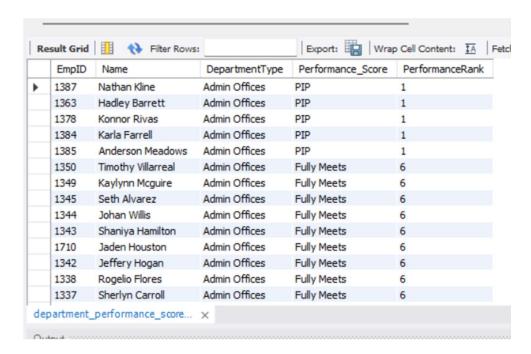
11. Find the average tenure (Exit Date - StartDate) of employees who left the company.

SELECT * FROM avg_tenure;



12. Rank all employees within their department by performance score.

SELECT * FROM department performance score;



13. List employees whose performance score is 'Exceeds Expectations' and have completed more than 3 training programs.

SELECT * FROM exceeds_performance;



14. Identify the top 5 departments with the highest average engagement scores.

SELECT * FROM depaartmently_engagement_scores;

R	esult Grid 🔡 🙌 Fi	Iter Rows:	
	Department	AvgEngagement	
•	Executive Office	3.4	
	Software Engineering	3.0	
	IT/IS	3.0	
	Sales	3.0	
	Admin Offices	2.9	

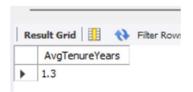
15. Find the correlation between training hours and current employee rating.

SELECT * FROM correlation;

	EmpID	Current_Employee_Rating	TotalTrainingHours
_			
•	1001	3	4
		3	2
	1003	3	4
	1004	3	2
	1005	3	4
	1006	3	2
	1007	3	2
	1008	3	2
	1009	3	2
	1010	3	5
	1011	3	1
	1012	3	3
	1013	3	2
	1014	3	2

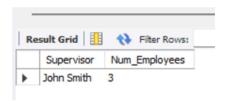
16. Calculate the average tenure of employees who have left the company.

SELECT * FROM avg tenure employee;



17. Determine which supervisor manages the most employees.

SELECT * FROM supervisor;



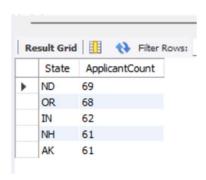
18. Identify the most common termination type by department.

SELECT * FROM common_termination;

K	esult Grid			
	DepartmentType	TerminationType	TermCount	
٠	Admin Offices	Unk	32	
	Executive Office	Retirement	6	
	IT/IS	Unk	206	
	Production	Unk	1006	
	Sales	Unk	167	
	Software Engineering	Unk	51	

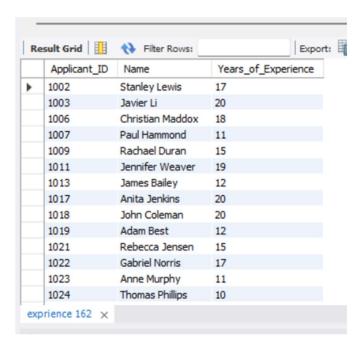
19. List the top 5 states with the highest number of applicants.

SELECT * FROM top_state;



20. Retrieve a list of applicants with more experience than the average.

SELECT * FROM exprience;



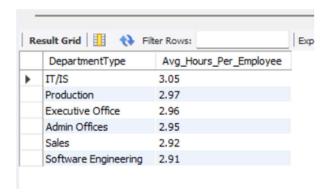
21. Create a rolling 3-month average of engagement scores per employee.

SELECT * FROM rolling 3 mon avg;

_	T	♦ Filter Rows	-
	Employee_ID	Survey_date	Rolling_3_Month_Avg
•	1001	2022-10-10	2
	1002	2023-08-03	4
	1003	2023-01-03	2
	1004	2023-07-30	3
	1005	2023-06-19	2
	1006	2023-05-03	5
	1007	2023-07-18	2
	1008	2023-06-21	5
	1009	2023-06-06	2
	1010	2022-09-15	2
	1011	2022-12-08	1
	1012	2023-01-13	3
	1013	2022-12-13	5
	1014	2023-06-28	4

22. Calculate the average training hours per employee per department and rank departments accordingly.

SELECT * FROM Avg Hours Per Employee;



23. Identify departments where average satisfaction is below the company average.

SELECT * FROM dep_comp_avg;

Result Grid			
	DepartmentType	DeptAvgScore	
•	Admin Offices	2.5125	
	Production	3.0208	
	IT/IS	3.0093	

24. Create a list the top 3 employees in each division by current rating.

SELECT * FROM current_employee_rating;

EmpID	Name	ivision	Current_Employee_Rating
3355	Darryl Ponce	Aerial	5
2604	Saniyah Cantu	Aerial	5
3295	Emmanuel Perkins	Aerial	5
3157	Deegan Pham	Billable Consultants	5
3091	Kali Hensley	Billable Consultants	5
2975	Bradley J Knapp	Billable Consultants	4
3140	Evie Beard	Catv	5
2239	Dario Whitney	Catv	5
2098	Phillip Fuentes	Catv	5
2473	Anastasia Hardy	Corp Operations	4
2596	Thaddeus Lutz	Corp Operations	2
2245	Londyn Underwood	Engineers	5
2187	Amaris Kirk	Engineers	5
2984	Tayana Jeannite	Engineers	5

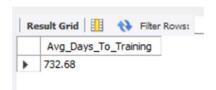
25. Build a cohort analysis of employees grouped by hiring quarter.

SELECT * FROM cohort analysis;

Result Grid		
	Hiring_Cohort	Employee_Count
	2018-Q3	98
	2018-Q4	157
	2019-Q1	153
	2019-Q2	148
	2019-Q3	136
	2019-Q4	161
	2020-Q1	143
	2020-Q2	139
	2020-Q3	157
	2020-Q4	153
	2021-Q1	157
	2021-Q2	140
	2021-Q3	160
	2021-Q4	143

26. Find the average time between an employee's start date and their first training program.

SELECT * FROM avg_days_training;



27. Calculate the average engagement score before and after completing a training program.

SELECT * FROM avg_before_after_time;

