ASSIGNMENT 5: SQL QUERYING

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AIT-580 Analytics: Big Data to Information

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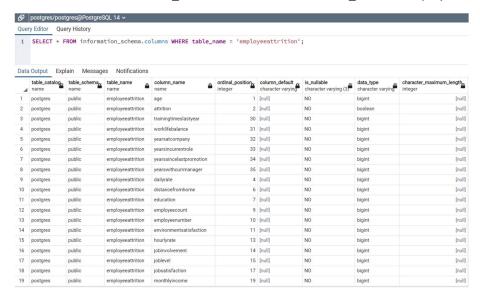
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SQL QUERYING

1. Write an SQL query to create table for given dataset. Use the SQL command below to display the characteristics of the table.

Reasoning: -

SELECT * FROM information_schema.columns WHERE table_name = 'employeeattrition';



- 2. Write SQL commands that find the following:
 - a. Count the total number of records in the table.

Reasoning: -

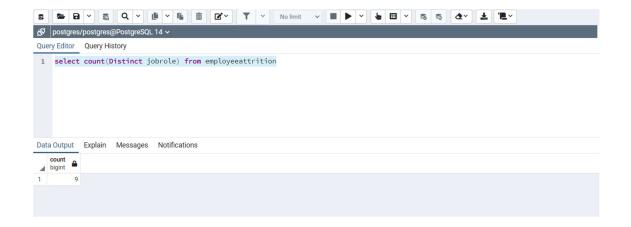
select count(*) from employeeattrition;



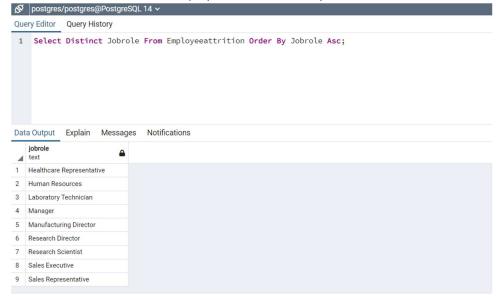
b. How many unique JOBROLE are there in the dataset. Order them by alphabetical order from A to Z.

Reasoning: -

select count(Distinct jobrole) from employeeattrition;



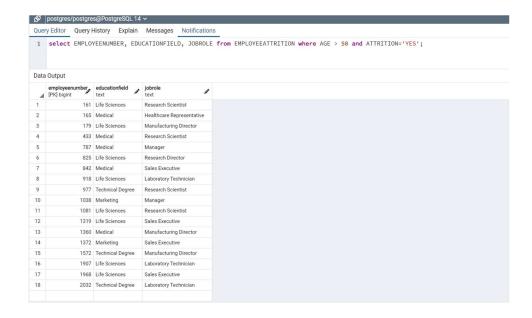
Select Distinct Jobrole From Employeeattrition Order By Jobrole Asc;



c. Find EMPLOYEENUMBER, EDUCATIONFIELD, JOBROLE for all the employees whose AGE is greater than 50 and ATTRITION is YES.

Reasoning: -

select EMPLOYEENUMBER, EDUCATIONFIELD, JOBROLE from EMPLOYEEATTRITION where AGE > 50 and ATTRITION='YES';



d. Count the different MARITALSTATUS when ATTRITION is YES in the dataset. Arrange the count in descending order (Hint: Use GROUP BY statement).

Reasoning: -

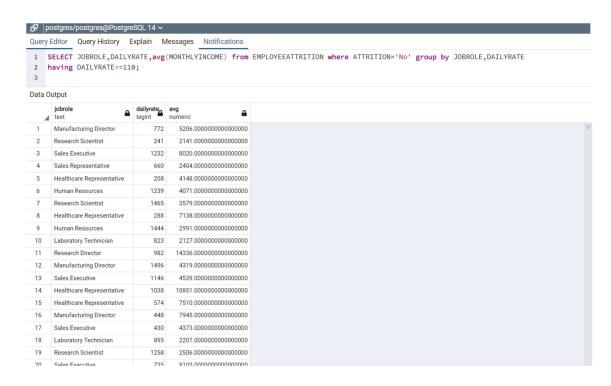
SELECT count(MARITALSTATUS) from EMPLOYEEATTRITION where ATTRITION='Yes' group by MARITALSTATUS;



e. For each JOBROLE when the ATTRITION is No, find the average MONTHLYINCOME for only those employees having DAILYRATE greater than or equal to 110 (Hint: Use GROUP BY and HAVING statements together).

Reasoning: -

SELECT JOBROLE, DAILYRATE, avg(MONTHLYINCOME) from EMPLOYEEATTRITION where ATTRITION='No' group by JOBROLE, DAILYRATE having DAILYRATE>=110;



Note:- For the above query there are 1158 rows generated.