**Data Aggregation Activity: Module 5 March 11th, 2024**

W2-Data Analysis Tools for Analytics

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Unfortunately I have used all my credits on HDInsight, so I was unable to check my queries.

1. **Create 2 tables. The first table shows how many salespeople have attrition. Store this information in a column called “attrition”. The second table counts how many salespeople have no attrition. Store this information in a column called “Non Attrition”.**

***Using previously loaded: employee\_sales***

*CREATE TABLE employee\_sales*

*(*

*Attrition string,*

*Department string,*

*JobSatisfaction int,*

*MonthlyIncome int,*

*);*

SELECT COUNT(Attrition) AS Attrition\_count

FROM employee\_sales

WHERE Attrition LIKE "%YES%;

SELECT COUNT(Attrition) AS Non\_Attrition\_count

FROM employee\_sales

WHERE Attrition LIKE "%NO%;

1. **Create 3 statistics tables (average, min, max) showing the monthly income for: all salespeople, those with attrition and those without attrition. For each table, label the columns “average\_monthly\_income”, “min\_monthly\_income”, and “max\_monthly\_income”.**

SELECT AVG(MonthlyIncome) AS average\_monthly\_income, MIN(MonthlyIncome) AS min\_monthly\_income, MAX(MonthlyIncome) AS max\_monthly\_income)

FROM employee\_sales

WHERE Attrition LIKE “%YES%”;

SELECT AVG(MonthlyIncome) AS average\_monthly\_income, MIN(MonthlyIncome) AS min\_monthly\_income, MAX(MonthlyIncome) AS max\_monthly\_income)

FROM employee\_sales

WHERE Attrition LIKE “%NO%”;

1. **Create 2 tables containing the monthly income and count of salespeople making that monthly income for: salespeople with attrition and salespeople without attrition. Label the columns as: “monthlyincome” and “count”**

SELECT MonthlyIncome as monthlyincome, COUNT(\*) AS count

From employee\_sales

WHERE Attrition LIKE “%YES%”

GROUP BY MonthlyIncome

SELECT MonthlyIncome as monthlyincome, COUNT(\*) AS count

From employee\_sales

WHERE Attrition LIKE “%NO%”

GROUP BY MonthlyIncome