**Assignment: Assignment #3  
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Assignment Objective: Data Transform Activity  
Using the business problem you selected, perform the required steps to aggregate data for visualization using a series of summarizations, including: Count and Average. - **Human Resources Analysis - Data**

**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”.**

CREATE TABLE **sales\_attrition**

row format delimited

fields terminated by '|'

STORED AS RCFile

AS SELECT COUNT(Attrition) AS Attrition FROM employee\_sales WHERE LOWER(Attrition) LIKE “%yes%”;

CREATE TABLE **sales\_non\_attrition**

row format delimited

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STORED AS RCFile

AS SELECT COUNT(Attrition) AS 'Non Attrition’ FROM employee\_sales WHERE LOWER(Attrition) LIKE “%no%”;

**2) 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”.**

CREATE TABLE **sales\_average\_income**

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STORED AS RCFile

AS SELECT Attrition, AVG(MonthlyIncome) AS average\_monthly\_income FROM employee\_sales GROUP BY Attrition;

CREATE TABLE **sales\_min\_income**

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STORED AS RCFile

AS SELECT Attrition, MIN(MonthlyIncome) AS min\_monthly\_income FROM employee\_sales GROUP BY Attrition;

CREATE TABLE **sales\_max\_income**

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STORED AS RCFile

AS SELECT Attrition, MAX(MonthlyIncome) AS max\_monthly\_income FROM employee\_sales GROUP BY Attrition;

**3) 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”**

CREATE TABLE **sales\_incomes\_attrition**

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STORED AS RCFile

AS SELECT MonthlyIncome AS monthlyincome, COUNT(MonthlyIncome) AS ‘count’ FROM employee\_sales WHERE LOWER (Attrition) LIKE “%yes%” GROUP BY MonthlyIncome;

CREATE TABLE **sales\_incomes\_non\_attrition**

row format delimited

fields terminated by '|'

STORED AS RCFile

AS SELECT MonthlyIncome AS monthlyincome, COUNT(MonthlyIncome) AS ‘count’ FROM employee\_sales WHERE LOWER (Attrition) LIKE “%no%” GROUP BY MonthlyIncome;