

# **Power Query Transformations**

## **Add a new column in prod\_Churn**

1. Churn Status = if [Customer\_Status] = "Churned" then 1 else 0
2. Change Churn Status data type to numbers
3. Monthly Charge Range = if [Monthly\_Charge] < 20 then "< 20" else if [Monthly\_Charge] < 50 then "20-50" else if [Monthly\_Charge] < 100 then "50-100" else "> 100"

## **Create a New Table Reference for mapping\_AgeGrp**

1. Keep only Age column and remove duplicates
2. Age Group = if [Age] < 20 then "< 20" else if [Age] < 36 then "20 - 35" else if [Age] < 51 then "36 - 50" else "> 50"
3. AgeGrpSorting = if [Age Group] = "< 20" then 1 else if [Age Group] = "20 - 35" then 2 else if [Age Group] = "36 - 50" then 3 else 4
4. Change data type of AgeGrpSorting

## **Create a new table reference for mapping\_TenureGrp**

1. Keep only Tenure\_in\_Months and remove duplicates
2. Tenure Group = if [Tenure\_in\_Months] < 6 then "< 6 Months" else if [Tenure\_in\_Months] < 12 then "6-12 Months" else if [Tenure\_in\_Months] < 18 then "12-18 Months" else if [Tenure\_in\_Months] < 24 then "18-24 Months" else ">= 24 Months"
3. TenureGrpSorting = if [Tenure\_in\_Months] = "< 6 Months" then 1 else if [Tenure\_in\_Months] = "6-12 Months" then 2 else if [Tenure\_in\_Months] = "12-18 Months" then 3 else if [Tenure\_in\_Months] = "18-24 Months" then 4 else 5
4. Change data type of TenureGrpSorting

## **Create a new table reference for prod\_Services**

1. Unpivot services columns
2. Rename Column –
  - a. Attribute >> Services
  - b. Value >> Status

## Summary Page - Measures

Total Customers = `Count`(`prod_Churn[Customer_ID]`)

New Joiners = `CALCULATE`(`COUNT`(`prod_Churn[Customer_ID]`), `prod_Churn[Customer_Status]` = `"Joined"`)

Total Churn = `SUM`(`prod_Churn[Churn Status]`)

Churn Rate = `[Total Churn]` / `[Total Customers]`

## Churn Prediction Page - Measures

Count Predicted Churner = `COUNT`(`Predictions[Customer_ID]`) + 0

Title Predicted Churners = `"COUNT OF PREDICTED CHURNERS : "` & `COUNT`(`Predictions[Customer_ID]`)