

Module 2: Assignment 3 - Mutate Function

Problem Statement:

Jonas has performed data manipulation using filter() and select(). Jonas realizes the need of adding certain columns of the customers to the dataset. Now, further Jonas wants to manipulate data by adding age column to the dataset using mutate() function. He lists down the tasks that need to be performed.

Tasks to be performed:

- 1. Add a column named 'Age' and assign a random value in customer churn dataset that lies within a range using sample() function based in the following conditions:
 - a. If the customer is a senior citizen (Senior Citizen == 1), then the age assigned to the customer lies between 56 and 100.
 - b. If the customer is not a senior citizen (SeniorCitizen==0), then the age assigned to the customers lies between 16:55
- 2. Create a column named 'Customer_Category' based on the following condition:
 - a. The customers whose monthly charges are less than 45 will be named as 'Low Paying' customers.
 - b. The customers whose monthly charges are less than '90' will be named as 'Medium Paying' customers.
 - c. The customers whose monthly charges are greater than '90' will be named as 'High Paying' customers.
- 3. Create a column named "Security" based on the following condition:
 - a. The customers who have opted for 'Online Security' will be marked as 'Secure'.
 - b. The customers who have not opted for 'Online Security' will be marked as 'Not Secure'.