

Module 5: Pandas Assignment – 1

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Problem Statement:

You work in XYZ Corporation as a Data Analyst. Your corporation has told you to analyze the customer_churn dataset with various functions.

Tasks To Be Performed:

1. Start off by importing the customer_churn.csv file in the jupyter notebook and store that in churn DataFrame.
2. From the churn DataFrame, select only 3rd, 7th, 9th, and 20th columns and all the rows and store that in a new DataFrame named newCols.
3. From the original DataFrame, select only the rows from the 200th index till the 1000th index(inclusive) column.
4. Now select the rows from 20th index till 200th index(exclusive),and columns from 2nd index till 15th index value.
5. Display the top 100 records from the original DataFrame.
6. Display the last 10 records from the DataFrame.
7. Display the last record from the DataFrame.
8. Now from the churn DataFrame, try to sort the data by the tenure column according to the descending order.
9. Fetch all the records that are satisfying the following condition:
 - a. Tenure>50 and the gender as 'Female'
 - b. Gender as 'Male' and SeniorCitizen as 0
 - c. TechSupport as 'Yes' and Churn as 'No'
 - d. Contract type as 'Month-to-month' and Churn as 'Yes'
10. Use a for loop to calculate the number of customers that are getting the tech support and are male senior citizens.