Analyzing Customer Churn at a telephone company in Power Bl

Churn: Customers in the telephone company who discontinue the telephone service.

Scenario: Customers in the telecom industry can choose from a variety of service providers and actively switch from one to the next. They can stop doing business with the telephone service. If the company could forecast which customers are likely to leave ahead of time, it could focus customer retention efforts only on these "high risk" clients.

Goal: Predict which customers are at high risk of leaving (churn) to reduce customer churn. Ultimately, the telephone company can expand its coverage area and retrieve more customer loyalty.

Churn

Total of customers

7043

Partner
✓DependentsChurn RateYesNo25.41%Yes14.24%NoNo34.24%NoYes21.33%Total26.54%

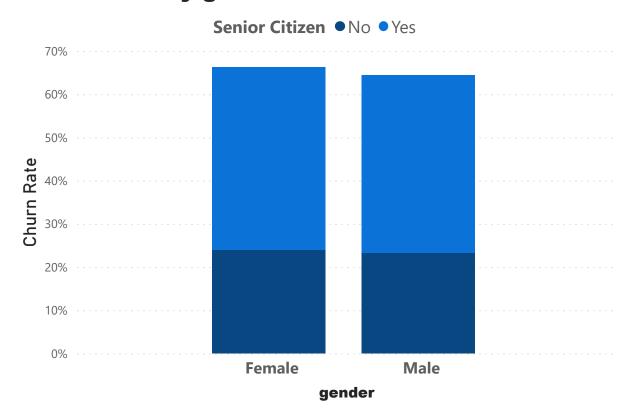
Total of Churned Customers

1869

Churn rate

26.54%

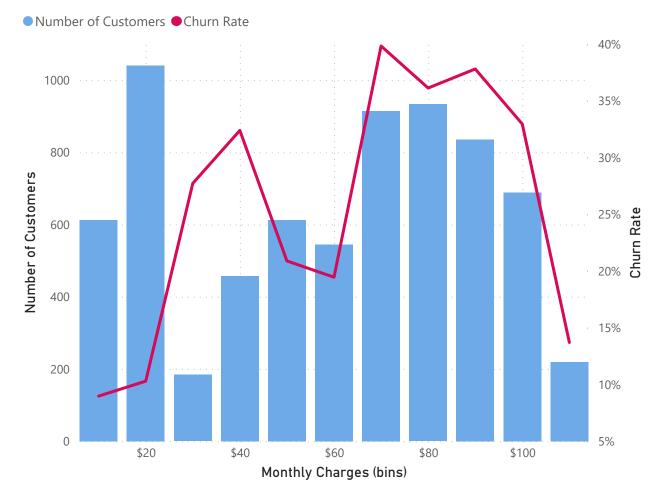
Churn Rate by gender and Senior Citizen



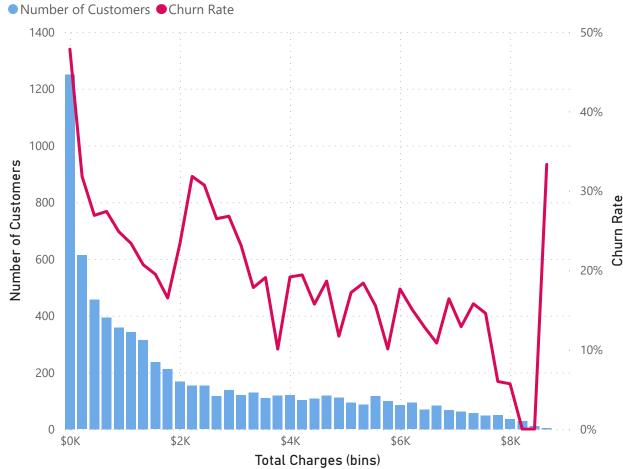
Charges



Number of Customers and Churn Rate by Monthly Charges (bins)

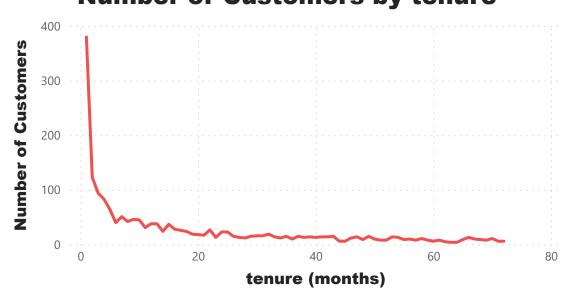


Number of Customers and Churn Rate by Total Charges (bins)

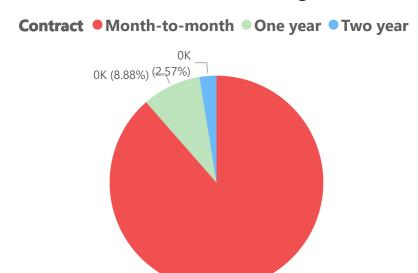


Contract

Number of Customers by tenure



Number of Customers by Contract



2K (88.55%)

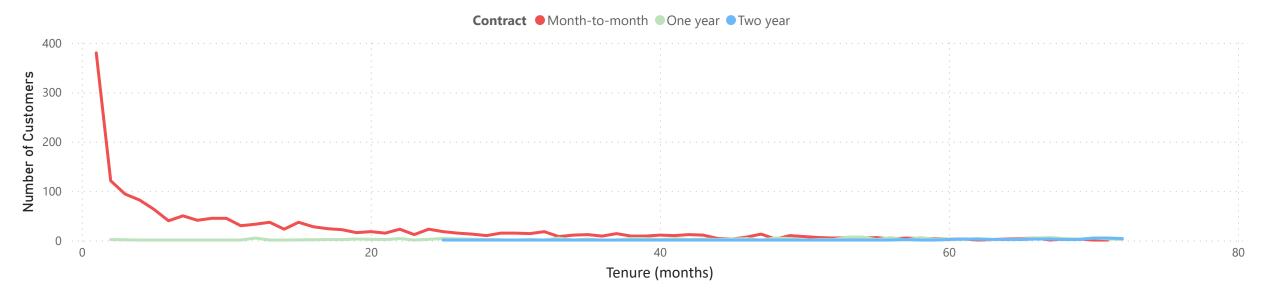
Churn





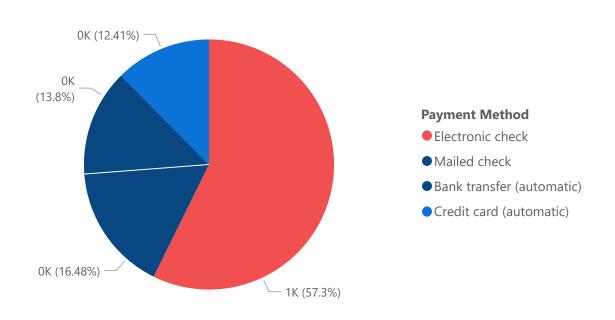


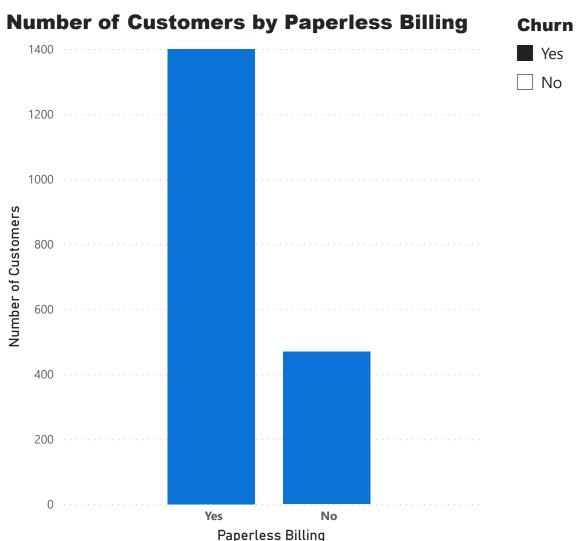
Number of Customers by tenure and Contract



Payment and Billing

Number of Customers by Payment Method

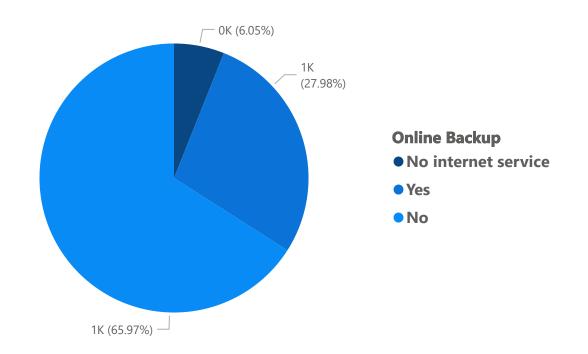




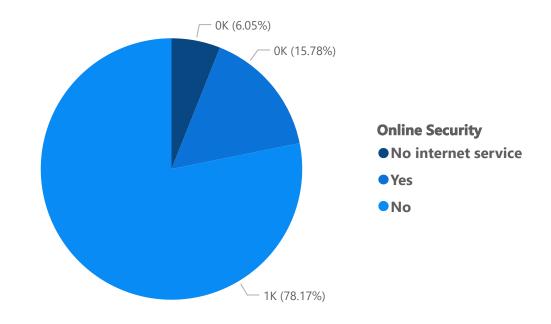
Services



Number of Customers by Online Backup



Number of Customers by Online Security



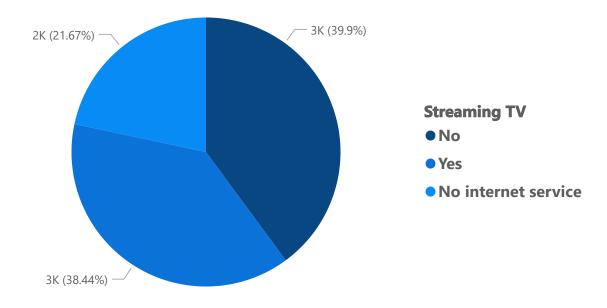
Streaming Service

Churn Yes

Number of Customers by Streaming Movies

2K (21.67%) Streaming Movies No Yes No internet service

Number of Customers by Streaming TV



Overview

The sorter the Tenure and the higher the Monthly Charges are, the higher the churn rate.

Churn rate

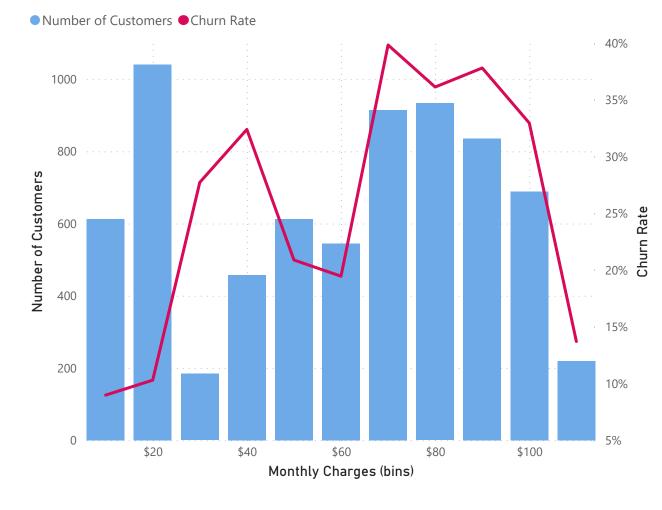
26.54%





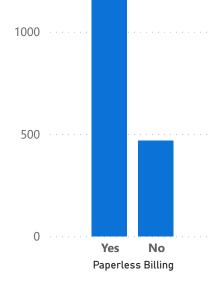
Churned Customers by Paperless Billing



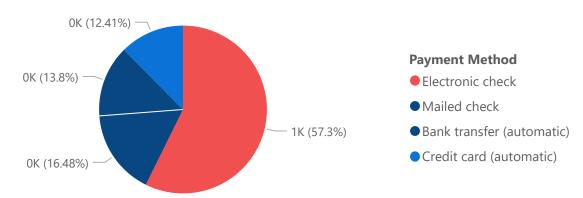


Churned Customers by Contract





Churned Customers by Payment Method



Takeaways

Churn rate

77.27%

Tenure Monthly charges more than:

Contract Type:

6

(Months)

\$100.2

Month-to-month

Customers who initiated telephone service within the last six months and are on month-to-month contracts with high monthly charges tend to leave (Churned rate: 77.27%).

<Solution>

Personalized offers for new customers:

Provide tailored promotions or discount to new customers.

Improved Customer Support for new customers:

Enhance customer support services with a focus on catering to the needs of new customers.

Longer-Term Contracts:

Encourage customers to switch from month-to-month contracts to longer-term commitments with benefits like reduced monthly charges or a additional services.