Case Study: Analyzing Customer Churn in Power Bl

This project analyzes customer churn data to discover why customers are churning

Definition

The churn rate, also known as the rate of attrition or customer churn, is the rate at which customers stop doing business with an entity. As a result, the revenue of the company will not increase if existing customers are leaving the company and getting new customers is more expensive and hard than keep current customers, so reducing churn is a priority for many companies.

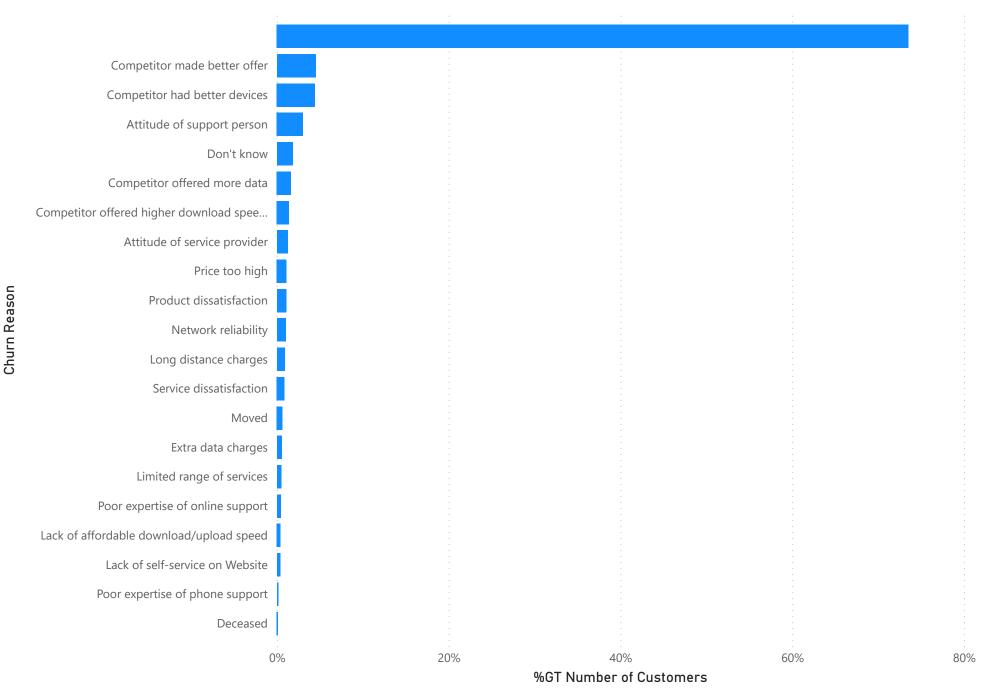
One way to calculate churn can be defined by the formula:

Churn rate = customers lost / total number of customers

Understanding churn help companies to:

- Measure competitiveness.
- Provides clarity of the type of customer that is leaving.

Number of Customers by Churn Reason



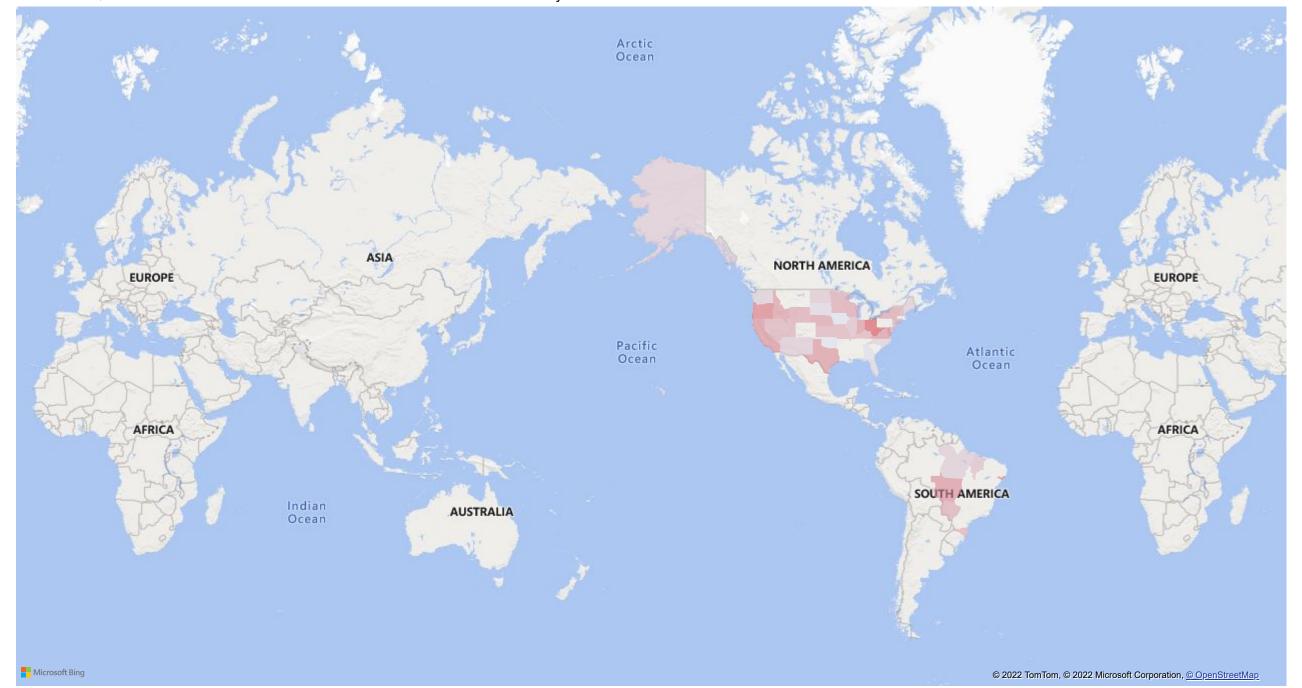
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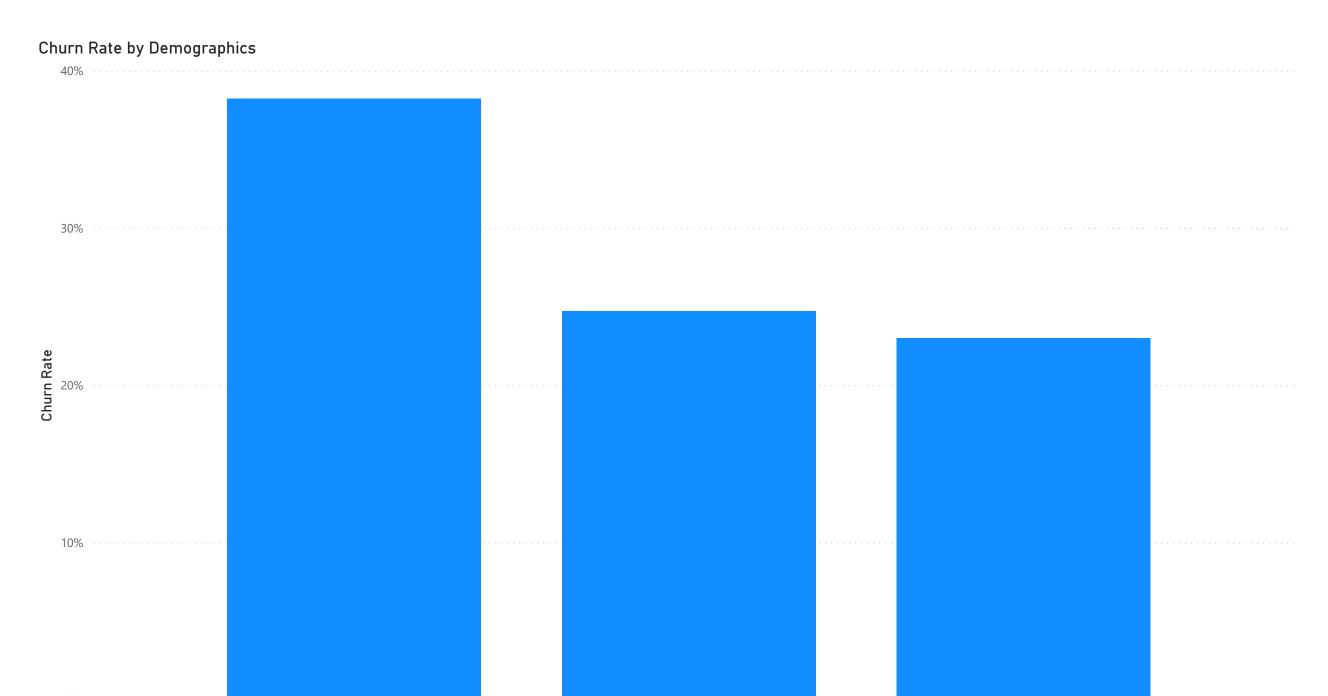
Number of Churned Customers

%GT Count of Churn Label by Churn Category and Churn Reason

Competitor		Attitude			Price	
					Price too high	Long distance charges
					Trice too mg.	Long distance charges
		Attitude of support person		Attitude of service	Extra data charges	Lack of affordable d
		Dissatisfaction			Other	
Competitor made better offer C	Competitor had better devices	Product dissatisfaction				
			Consider discotist	faction Limited ra		
			Service dissatis	action Limited ra	De all Lea	Maria d
					Don't know	Moved
					Poor expertise of online suppo	ort Deceased
Competitor offered more data	Competitor offered higher download speeds	Network reliability	Lack of self-ser	vi Poor Poor		

Churn Rate, Number of Customers and Number of Churned Customers by State

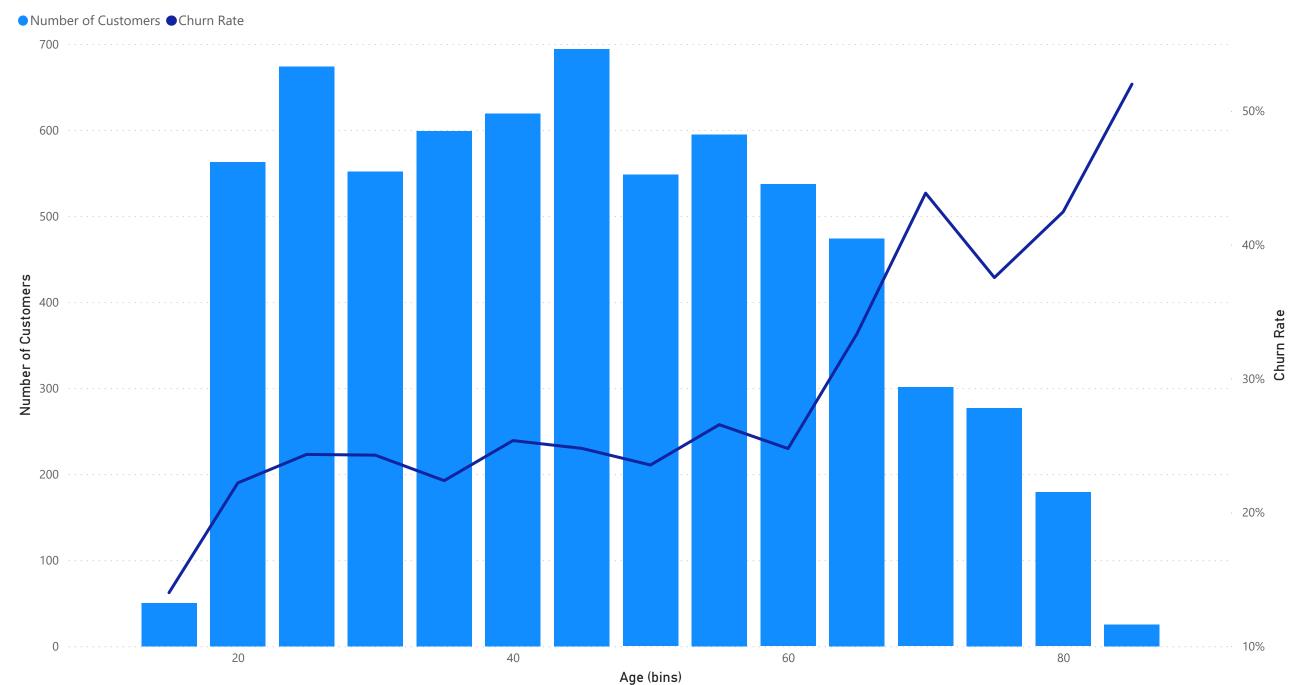




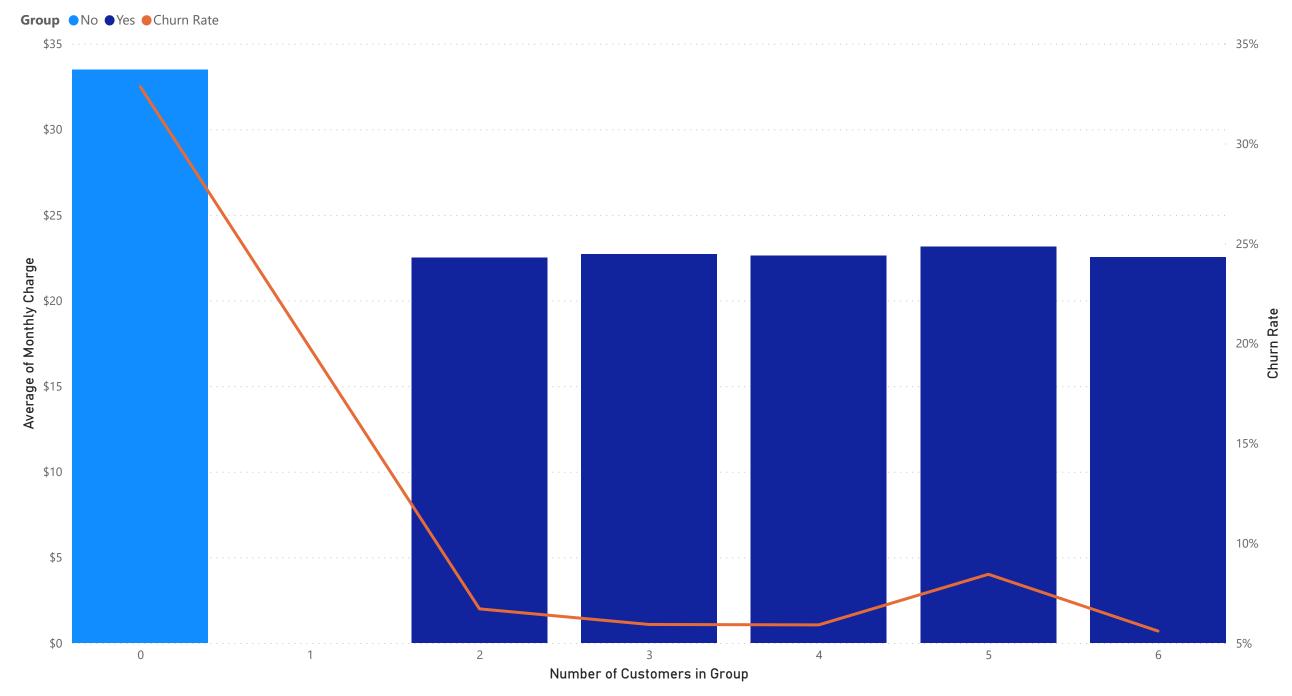
Under 30

Senior

Number of Customers and Churn Rate by Age (bins)



Average of Monthly Charge and Churn Rate by Number of Customers in Group and Group



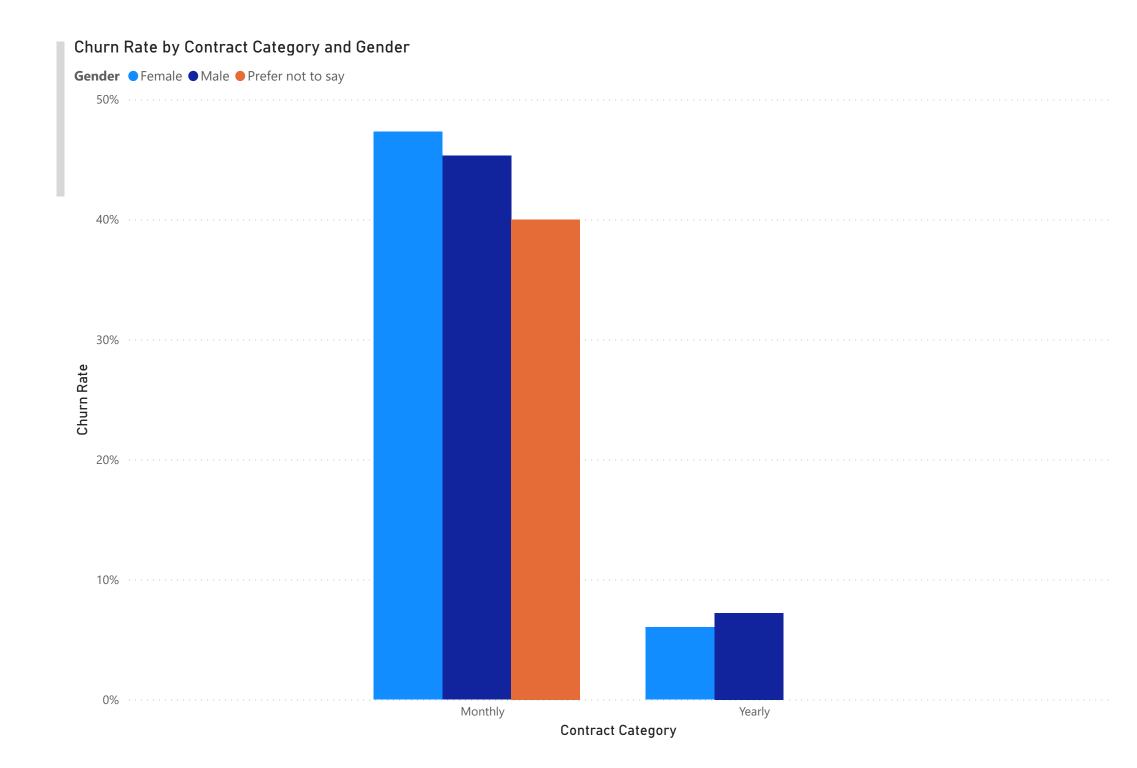


Churn Rate

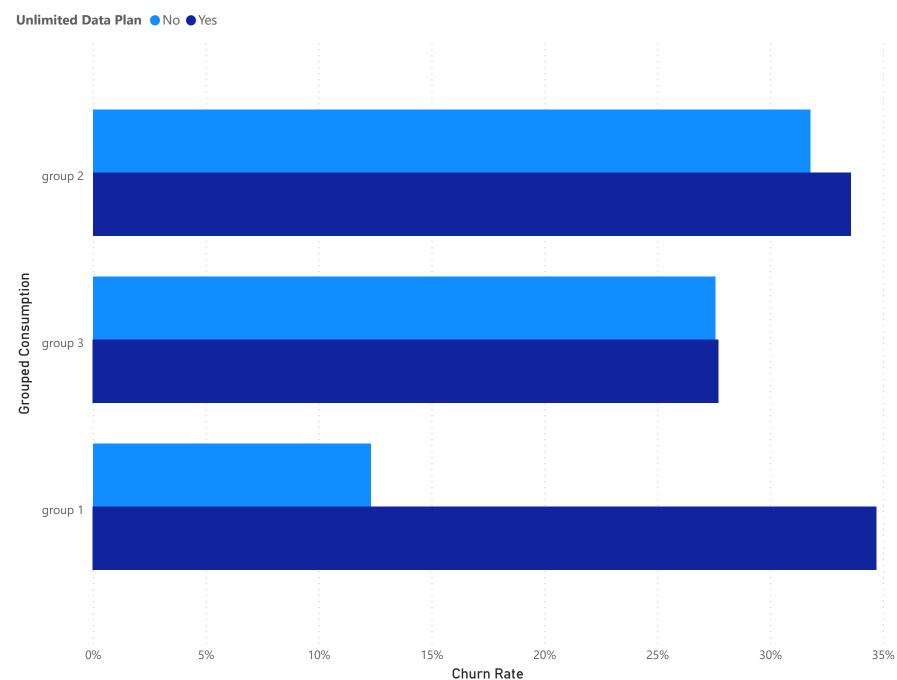
Yearly

6.62%

Churn Rate



Churn Rate by Grouped Consumption and Unlimited Data Plan



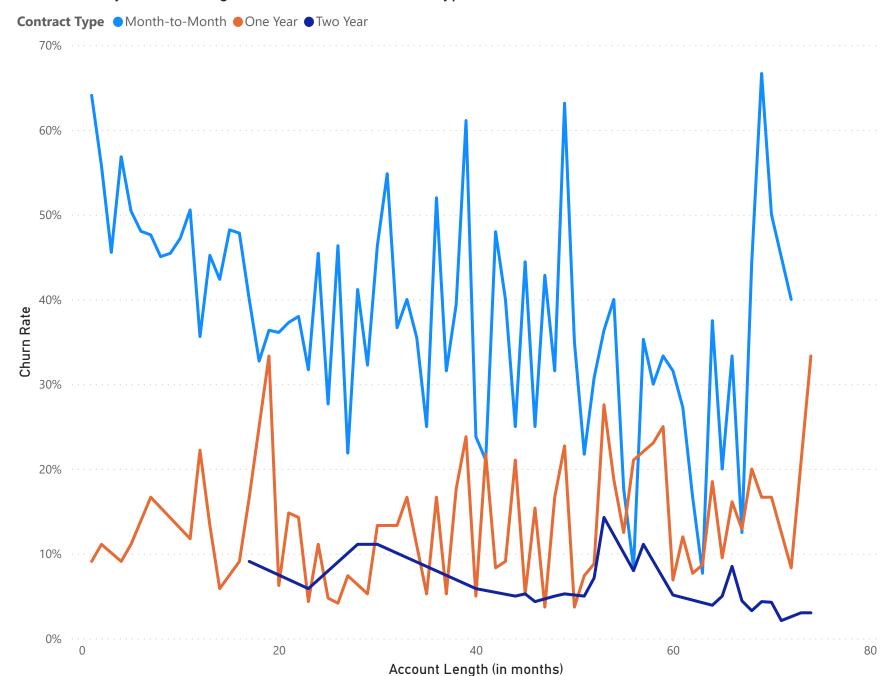
6687		100.00%
4494	Yes	119.55%
2193	No	59.93%
Number of Customers	Unlimited Data Plan	%GT Churn Rate

Churn Rate by State

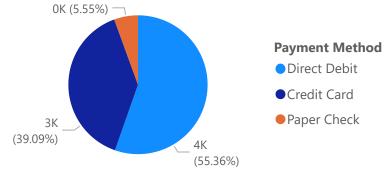


Intl Active	no	yes	Total
No	20.01%	71.19%	22.21%
Yes	40.34%	7.59%	34.31%
Total	27.07%	24.88%	26.86%

Churn Rate by Account Length (in months) and Contract Type



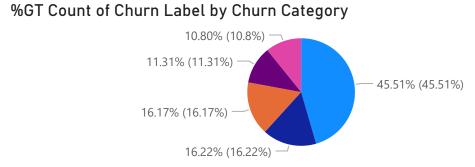
Number of Customers by Payment Method



6687

Number of Customers

Age	Senior	Under 30	Churn Rate
196083	No	No	24.71%
31714	No	Yes	23.00%
89492	Yes	No	38.22%
317289			26.86%

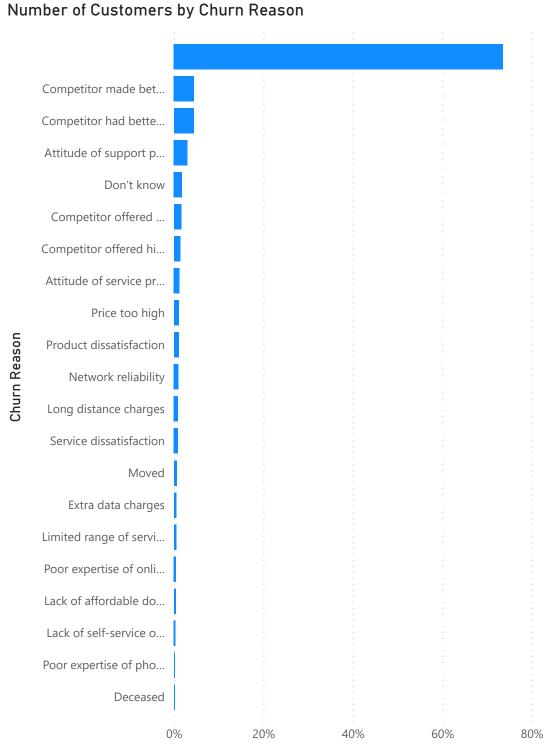


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Number of Churned Customers

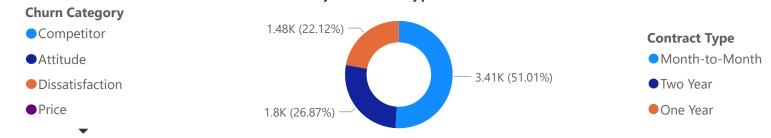
26.86%

Churn Rate

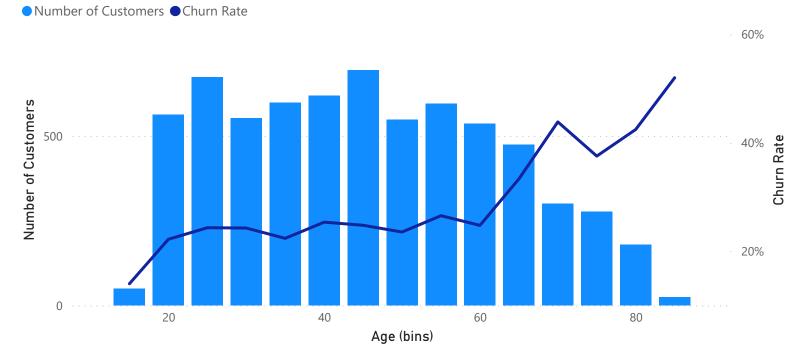


%GT Number of Customers

Count of Customer ID by Contract Type



Number of Customers and Churn Rate by Age (bins)



Churn Rate by State



Account Length (in months)

24

2108

Number of Customers

14K Avg Monthly GB Download

19.69%

Churn Rate

Average of Monthly Charge and Churn Rate by Number of Customers in Group and Group

