

Introduction

Project Overview: Analyzing customer churn to understand patterns and reduce churn rate.

Objectives: Identify key metrics, analyze customer behavior, and provide actionable insights.

Data Sources & Tools

Data Source: Customer Churn Dataset

Tools: MySQL for querying data, Power BI for visualization

Problem Statements

Identify the total number of customers and the churn rate

7043
Count of Customer ID

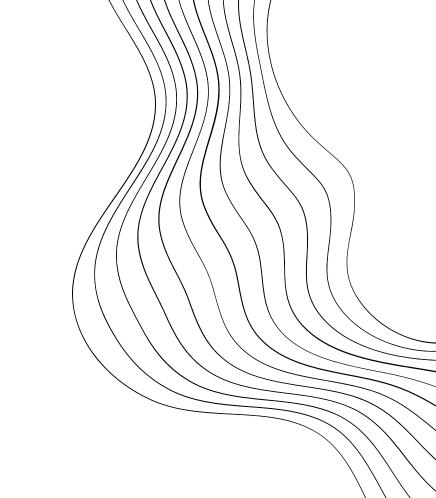
1869 Count of Customer Status



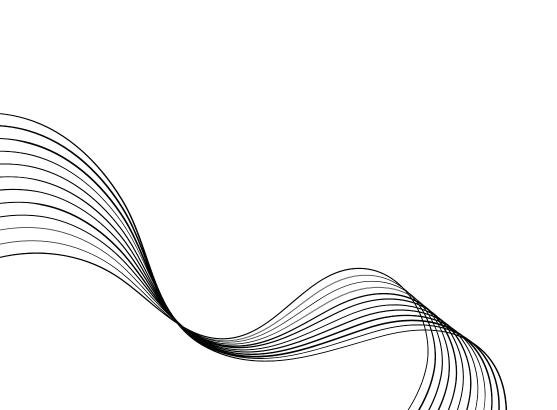
Churn Rate 32.80 %

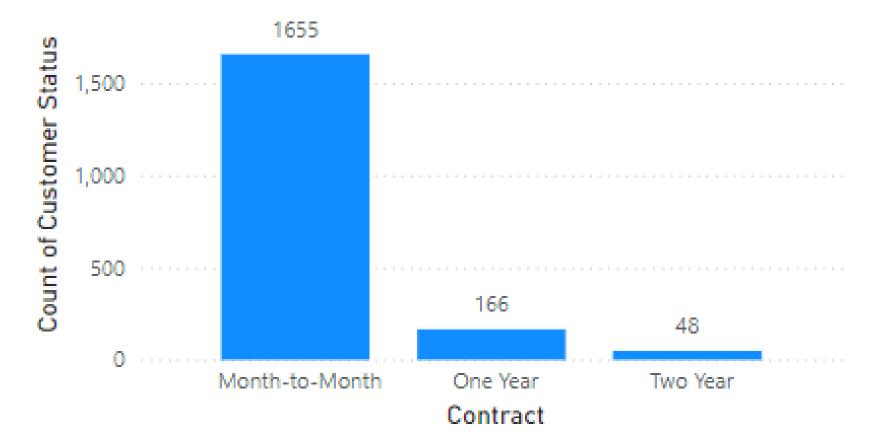
Find the average age of churned customers

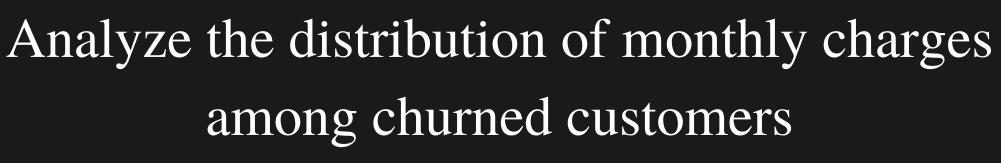
Customer Status	Average of Age	
Churned	49.74	
Total	49.74	
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Discover the most common contract types among churned customers



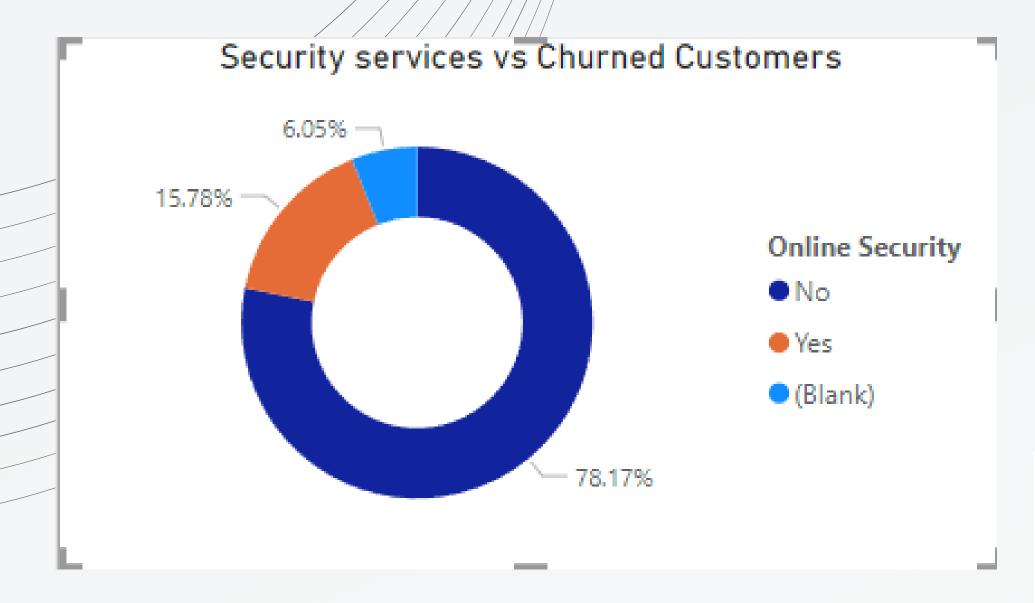




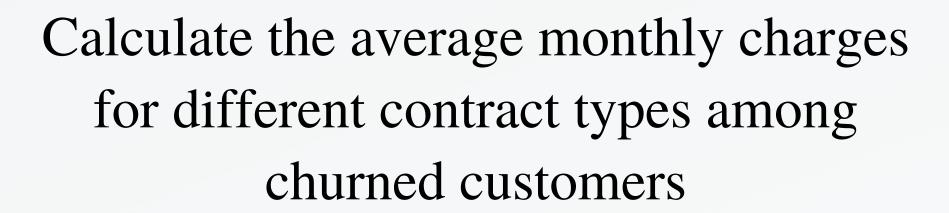
Monthly Charges of Churned customers

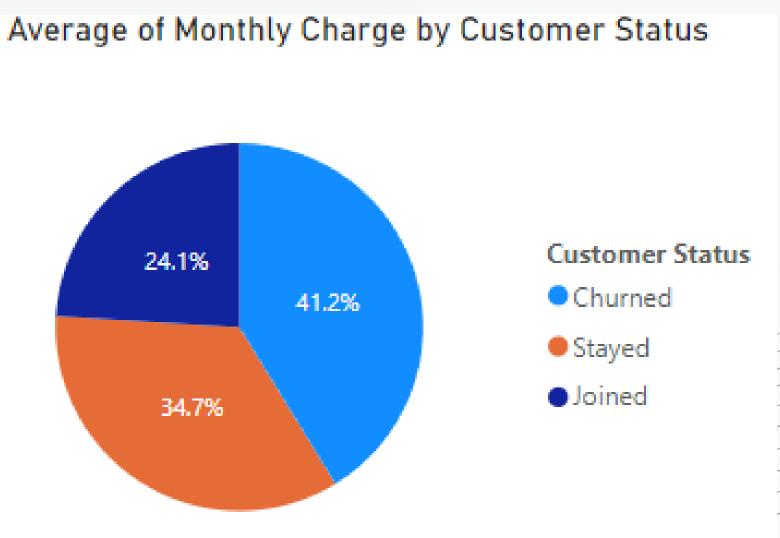
27, 189.15





Identify customers who have both online security and online backup services and have not churned

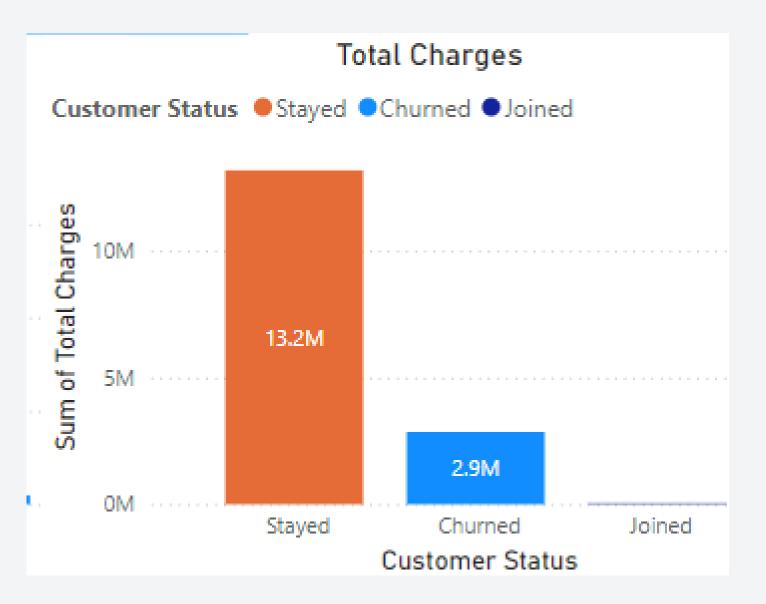




Create a query to identify the contract types that are most prone to churn

Contract	Churned	Total
Month-to-Month	1655	1655
One Year	166	166
Two Year	48	48
Total	1869	1869

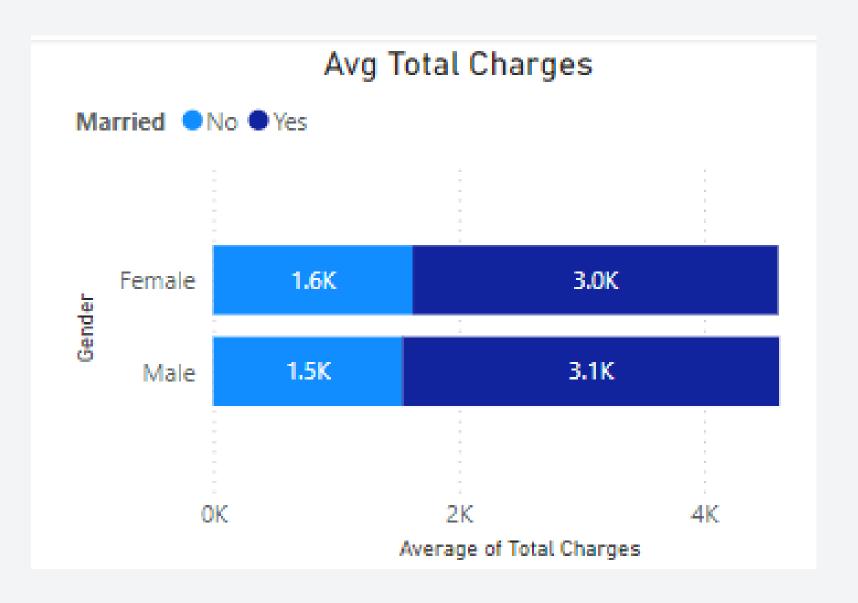
Calculate the total charges distribution for churned and non-churned customers



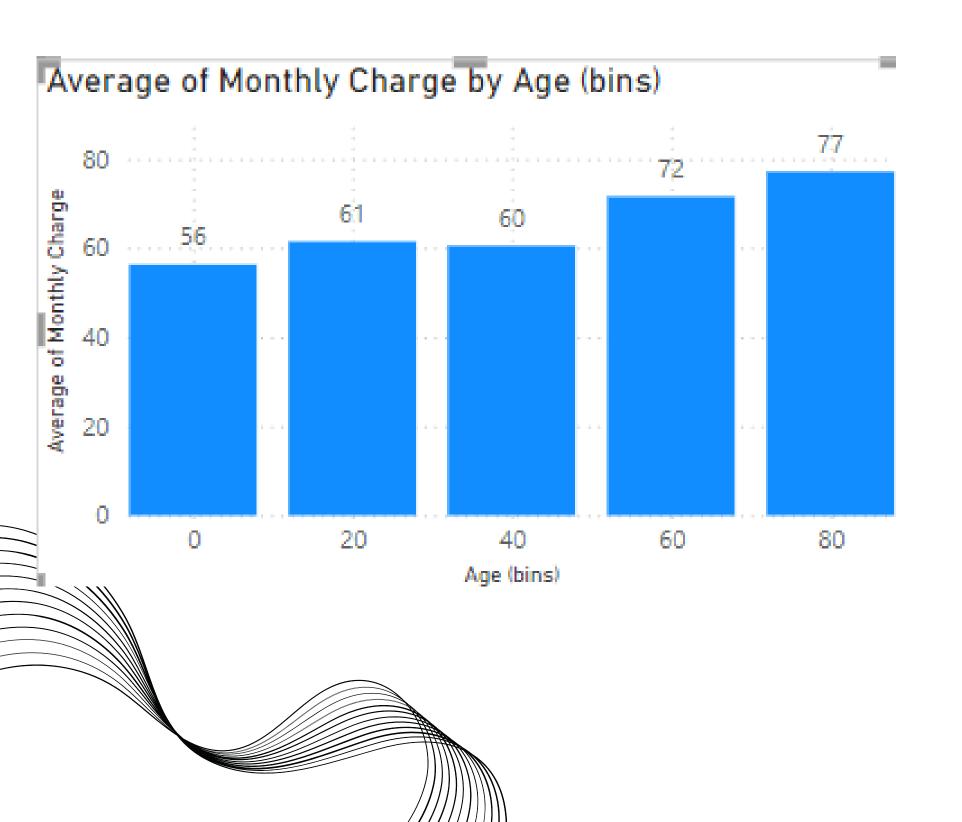
Determine the most common combinations of services among churned customers

service_combo	combo_count
No_No	957
No_Yes	363
Yes_No	157
Yes_Yes	109

Identify the average total charges for customers grouped by gender and marital status



Calculate the average monthly charges for different age groups among churned customers



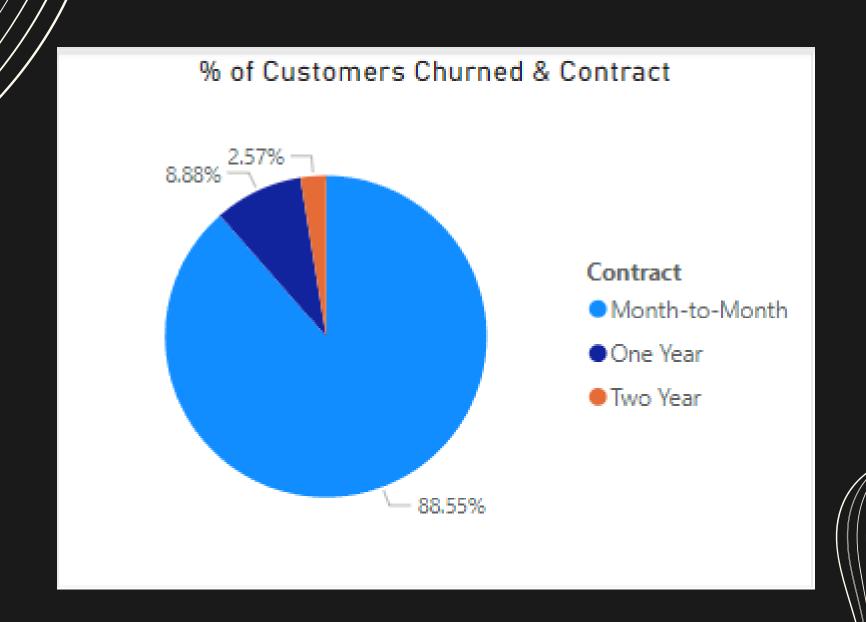
Determine the average age and total charges for customers with multiple lines and online backup

Avg Charges of customer by online_security and online_backup

4,865.71

Identify the contract types with the highest churn rate among senior citizens (age 65 and over)

Calculate the average monthly charges for customers who have multiple lines and streaming TV



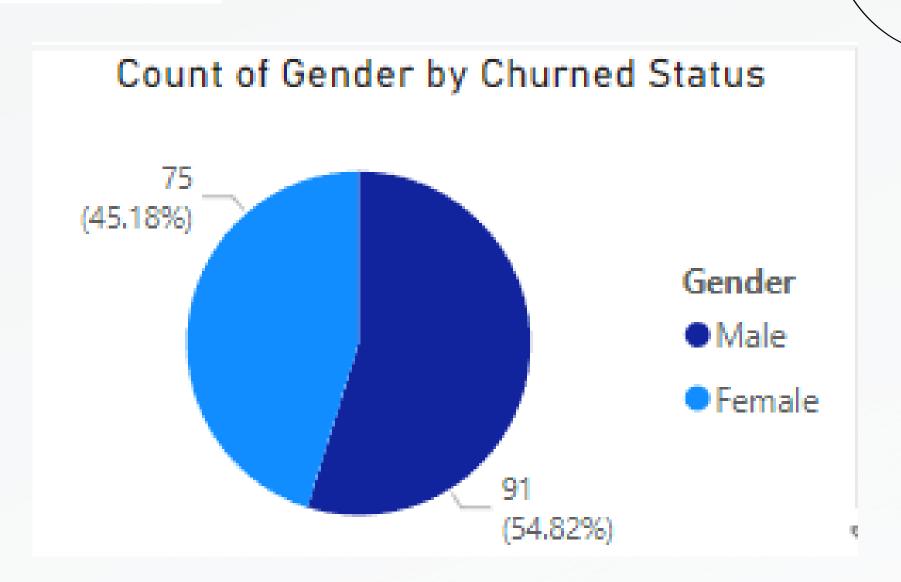
Average of Monthly Charge Using Multiple line & Streaming TV

97.42

Calculate the average age and total charges for customers with different combinations of streaming services

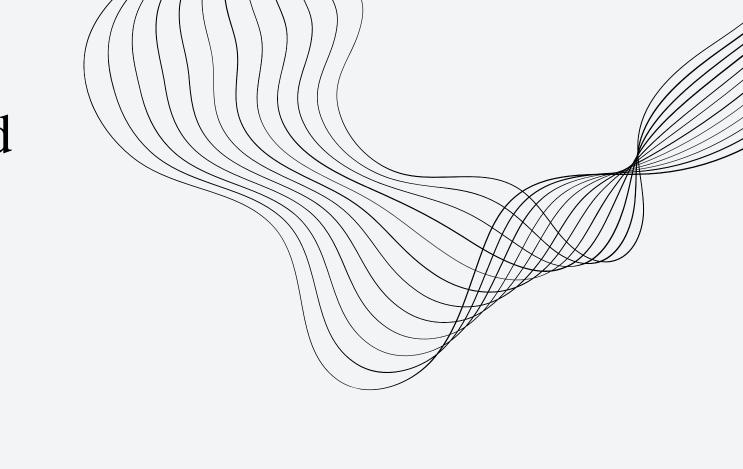
Streaming TV	Streaming Movies	Average of Age	Average of Total Charges
No	Yes	48.07	2,545.72
Yes	Yes	48.05	4,257.08
Yes	No	47.09	2,495.65
No	No	47.02	1,416.83
Total		47.54	2,727.62

Identify the gender distribution among customers who have churned and are on yearly contracts

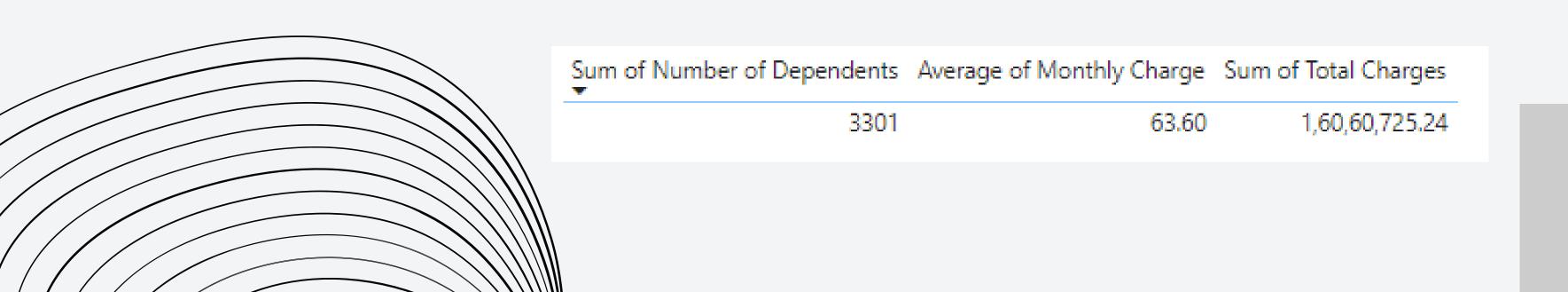


Calculate the average monthly charges and total charges for customers who have churned, grouped by contract type and internet service type

Contract	Internet Service	Average of Total Charges	Average of Monthly Charge
Month-to-Month	Yes	1,487.66	71.82
One Year	Yes	3,720.32	78.04
Two Year	Yes	4,869.92	82.17
Total		2,727.62	75.48



Find the customers who have churned and are not using online services, and their average total charges



Calculate the average monthly charges and total charges for customers who have churned, grouped by the number of dependents

Count of Number of Dependents	Average of Monthly Charge	Sum of Total Charges
8	73.35	28,62,926.90
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Create a view to find the customers with the highest monthly charges in each contract type

Sum of Monthly Charge	Contract	Customer ID	
118.35	One Year	8199-ZLLSA	
117.80	One Year	2889-FPWRM	
117.45	Month-to-Month	2302-ANTDP	
116.20	Two Year	9053-JZFKV	
115.65	One Year	1444-VVSGW	
115.55	One Year	0201-OAMXR	
114.50	Month-to-Month	4361-BKAXE	***************************************
114.20	Two Year	1555-DJEQW	
1,37,086.65			

Create a view to identify customers who have churned and the average monthly charges compared to the overall average

Average of Monthly Charge

Churned

73.35

Create a view to find the customers who have churned and their cumulative total charges over time

2.86M

Sum of Total Charges

THANK YOU

Any Questions

