# Customer Churn - Executive Summary

### **Total Customers**

### **Churned Customers**

Total no. of Customers

7.043K

No. of Churned Customers

1.869K

Churn Rate

26.54%

Total Revenue

\$16.06M

Avg Monthly Charge

\$64.76

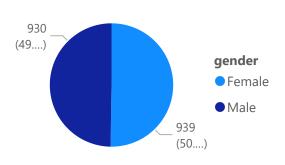
gender ∨
Female
☐ Male
Contract
☐ Month-to-month
One year
☐ Two year
InternetService $\vee$
☐ DSL

Fiber optic

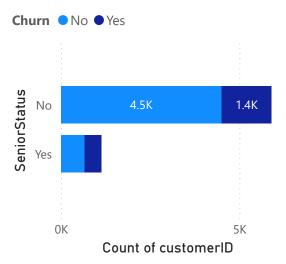
□ No



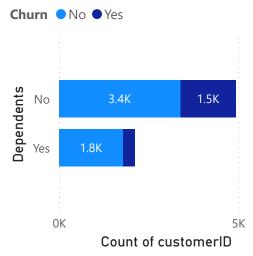
# Count of customerID by gender and Churn



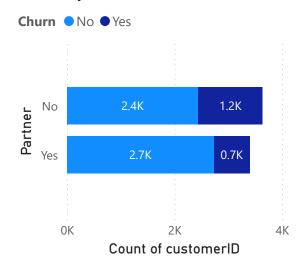
### Churn by Senior Citizen Status



### Churn by Dependent Status



### Churn by Partner Status

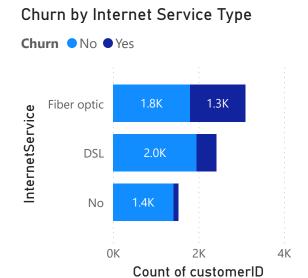


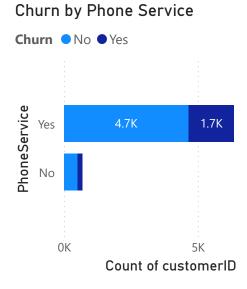
### **Demographic Insights Summary:**

- · Churn is almost evenly split between male and female customers.
- Senior Citizens churn at a higher rate relative to their share of the customer base.
- Customers without partners or dependents are more likely to churn, indicating social/family ties may influence retention.
- These segments should be considered for targeted retention strategies.



# Churn by Contract Type Churn No Yes Month-t... 2.2K 1.7K Two year 1.6K One year 1.3K Count of customerID





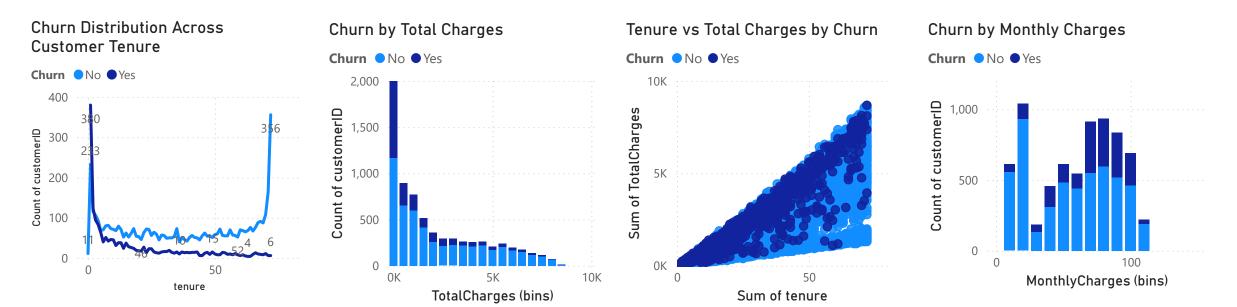
Churned Customers by Online Security & Tech Support

OnlineSecurity	No	No internet service	Yes	Total
No	1250		211	1461
No internet service		113		113
Yes	196		99	295
Total	1446	113	310	1869

### Service Usage Insights Summary

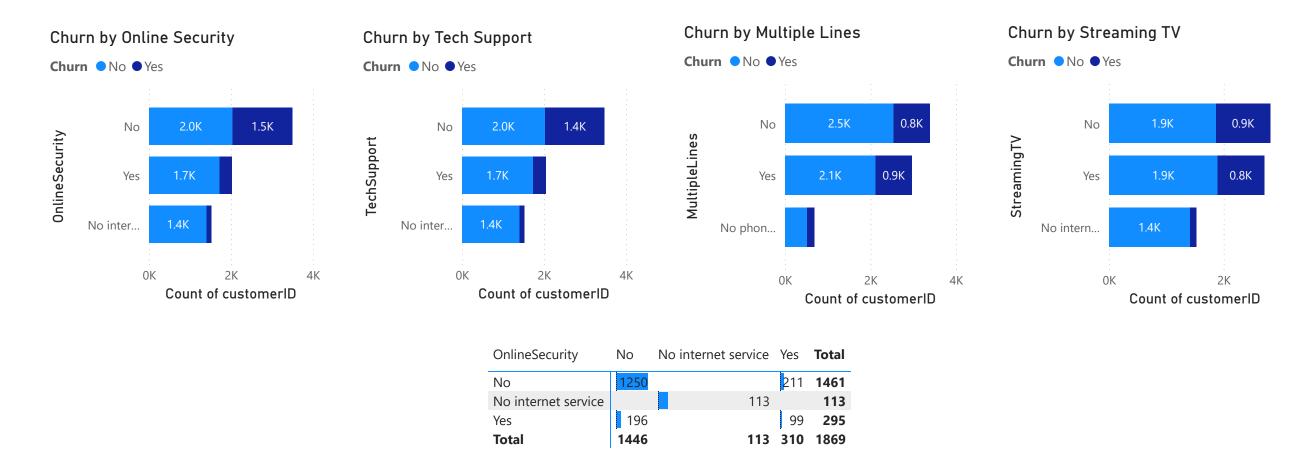
- The highest churn occurs among customers with no Online Security and no Tech Support (1,250+ churned).
- Churn is **significantly lower** for customers who had **both services enabled**.
- This pattern suggests that **support and protection services** add perceived value and can play a key role in **customer retention**.
- Encouraging adoption of these services may help reduce future churn.





### **Tenure & Billing Analysis – Key Insights:**

- Early-stage churn is significantly high: A substantial portion of customers leave within the initial months of service, indicating a critical window for onboarding and engagement.
- Churn is concentrated among mid-range monthly charges: Customers paying between \$60-\$90 per month show the highest churn, suggesting a potential mismatch in value perception or service expectations at this price tier.
- **High total spend correlates with retention**: Customers with greater **TotalCharges** (lifetime value) are far less likely to churn, emphasizing the importance of cultivating long-term relationships.
- Tenure and TotalCharges are positively related: The scatter analysis reveals that customers who stay longer also spend more, with churned customers clustered at low tenure and low spend levels.
- These findings underscore the need for:
  - ➤ Early retention campaigns
  - ➤ Strategic value communication for mid-tier plans
  - ➤ Loyalty incentives for long-tenure customers



### **Segmentation Insights Summary**

- Customers without Online Security or Tech Support show consistently higher churn rates, indicating a potential trust or support gap.
- The **matrix view** reveals that customers who lack both services simultaneously are at the **greatest risk of churning**, making this combination a key target for retention strategies.
- Multiple Lines and Streaming TV services show only marginal differences in churn, suggesting they may be less critical in retention decisions.
- Service bundling (offering security + support) may offer a meaningful way to reduce churn by increasing perceived value.

**Number of Customers** 

1409

Count of CUSTOMERID

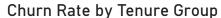
**Predicted Churn Rate** 

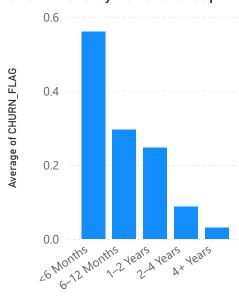
Churn Rate

0.21

RevenueAtRiskPart

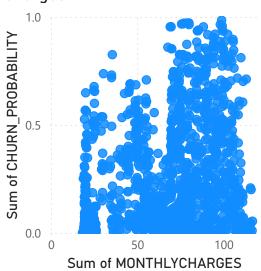
\$22.9K





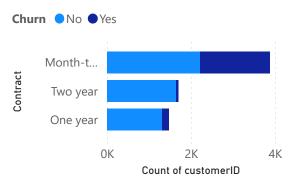
TenureGroup

# Churn Probability vs. Monthly Charges

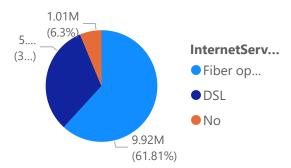


CUSTOMERID S	Sum of CHURN_PROBABILITY	RISK_FACTORS	Sum of MONTHLYCHARGES
5966-EMAZU	0.55	TOTALCHARGES: 3.033, TENURE: -1.861, MONTHLYCHARGES: 0.938	108.50
2798-NYLMZ	0.42	TOTALCHARGES: 2.882, TENURE: -2.359, MONTHLYCHARGES: 1.063	108.55
3766-EJLFL	0.59	TOTALCHARGES: 2.373, TENURE: -1.123, MONTHLYCHARGES: 1.039	109.05
5696-CEIQJ	0.60	TOTALCHARGES: 2.053, MONTHLYCHARGES: 1.844, TENURE: -1.59	103.15
5140-FOMCQ	0.37	TOTALCHARGES: 1.937, TENURE: -0.733, MONTHLYCHARGES: 0.165	109.15
2522_ALIVD	Λ 1 <i>1</i>	TOTALCHADGES: 1 016 TENHIDE: 1 9/12 MONTHIVCHADGES: 0 072	100 /5
Total	371.03		90,301.20

### Count of customerID by Contract and Churn



# Sum of TotalCharges by InternetService



# Sum of TotalCharges by InternetService

