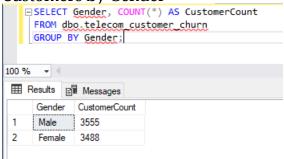
Customer Churn Analysis in SQL

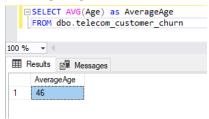
Dataset: https://www.mavenanalytics.io/data-playground?page=2&pageSize=5

Customer Demographics

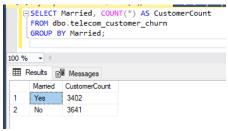
Customers by Gender



Average age of customers

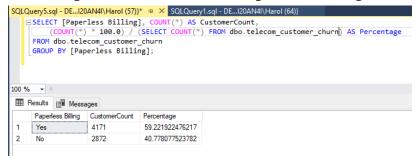


Customers by Marital Status:

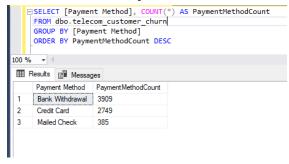


Billing

Percentage of Customers with Paperless Billing:

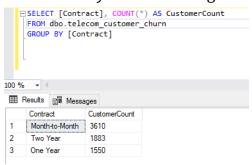


Most Common Payment Method:

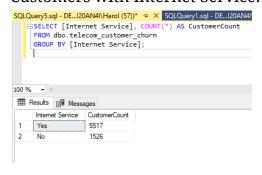


Contract Analysis

Customers by Contract Length:

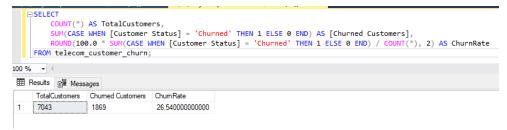


Customers with Internet Service:

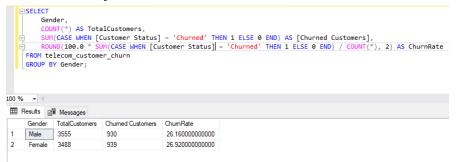


CHURN ANALYSIS

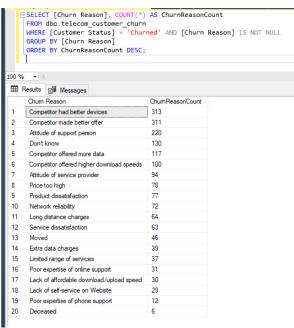
Overall Churn Rate



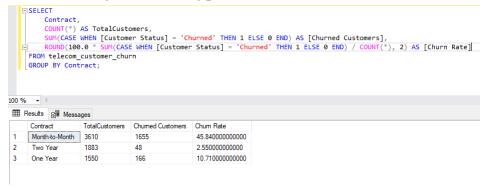
Churn Rate by Gender



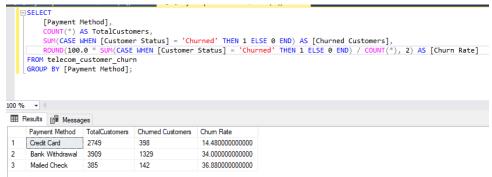
Most Common Churn Reasons



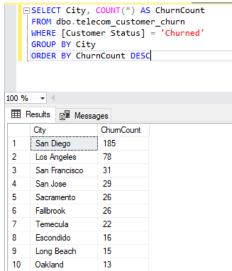
Churn Rate by Contract Type



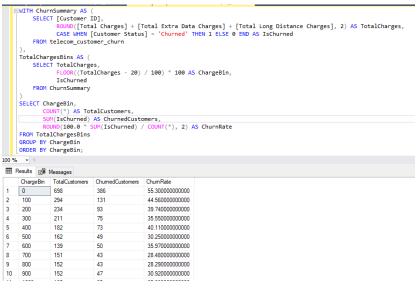
Churn Status by Payment Method



Cities by Churn Rate



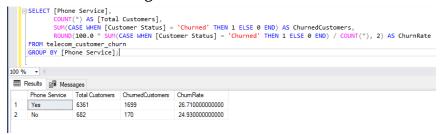
Churn Rate by Total Charges



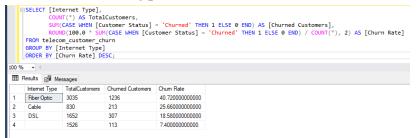
Churn Rate by Offer Type

Churn Rate by Tenure

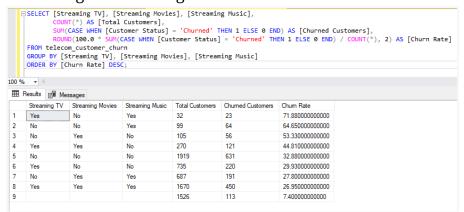
Phone Service Usage and Churn Rate



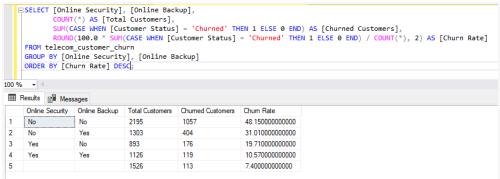
Internet Service Type and Churn Rate



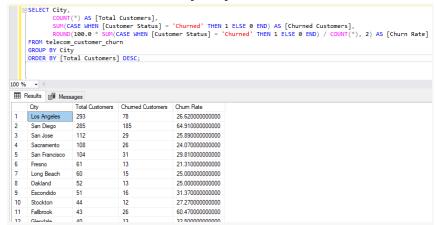
Streaming Service Usage and Churn Rate



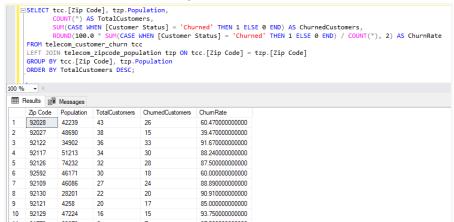
Online Security/Backup and Churn Rate



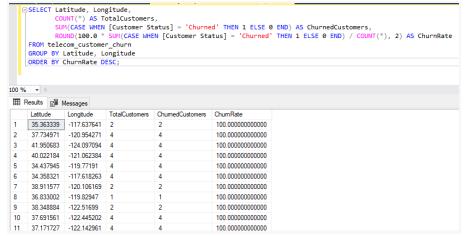
Customer Distribution by City



Customer Distribution by ZIP Code



Correlation between Latitude/Longitude and Churn



Miscellaneous

Population Analysis

```
SELECT TZP.[Zip Code], TZP.Population,
       □SELECT TZP.[Zip Code], TZP.Population,
COUNT(*) AS TotalCustomers,
SUM(CASE WHEN TCC.[Customer Status] = 'Churned' THEN 1 ELSE 0 END) AS ChurnedCustomers,
ROUND(100.0 * SUM(CASE WHEN tcc.[Customer Status] = 'Churned' THEN 1 ELSE 0 END) / COUNT(*), 2) AS ChurnRate
FROM telecom_zipcode_population AS TZP
LEFT JOIN telecom_customer_churn tcc ON TZP.[Zip Code] = TCC.[Zip Code]
GROUP BY TZP.[Zip Code], TZP.Population
ORDER BY CONVERT(INT, TZP.Population) DESC;
100 % 🕶 🖪
 Results Messages
        | Zip Code | Population | TotalCustomers | ChumedCustomers | ChumRate | 90201 | 105285 | 5 | 0 | 0 | 0.0000000
                                                                                               0.000000000000
          90650
                           103214
                                                                                               0.0000000000000
         90011
                                                                                               20.000000000000
                           101215
                                                                                               0.000000000000
         92054
                          98239
                                                                                               40.000000000000
          90280
                          96267
                                                                                               0.000000000000
         90250
                          93315
                                                                                               20.0000000000000
         90805
                          91664
                                                                                               20.000000000000
          92704
                                                                                               0.000000000000
 10
         94509
                          90891
                                                                                               50.000000000000
```

Referral Analysis

