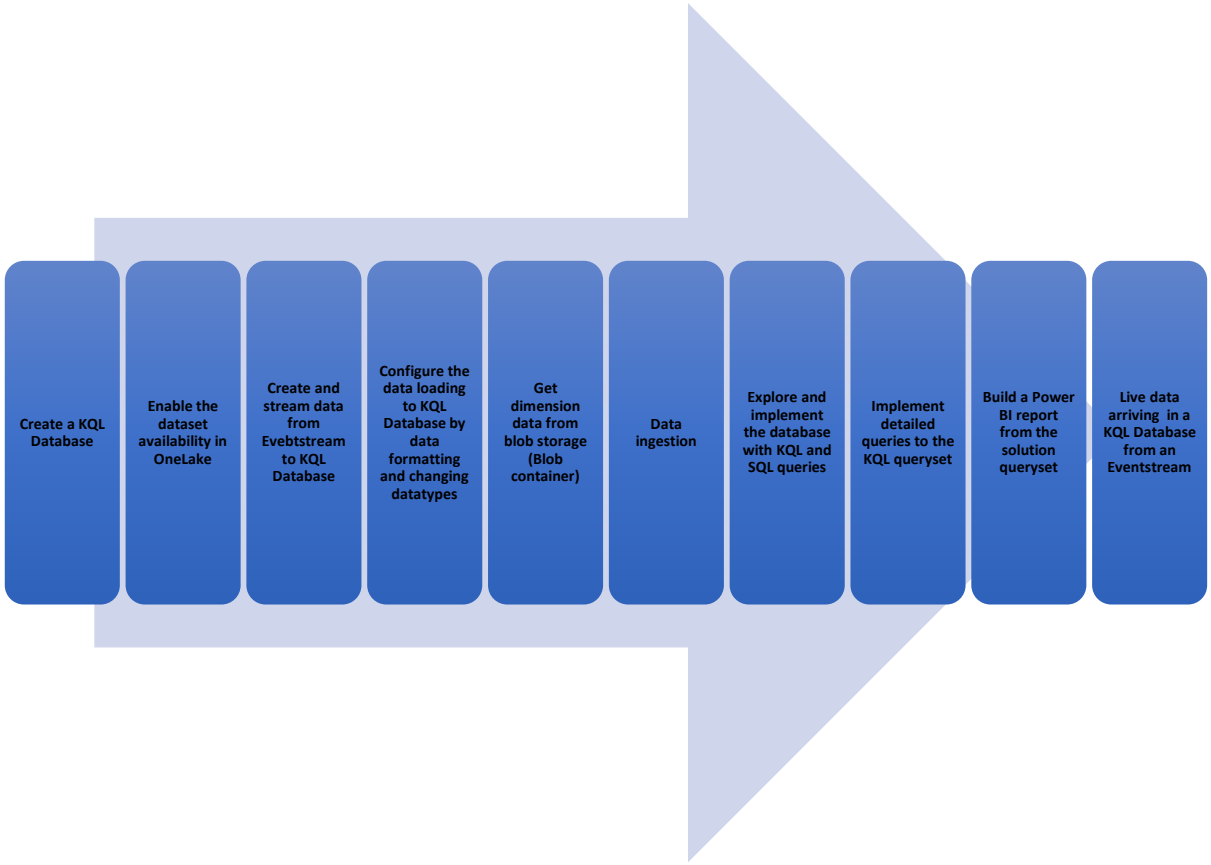
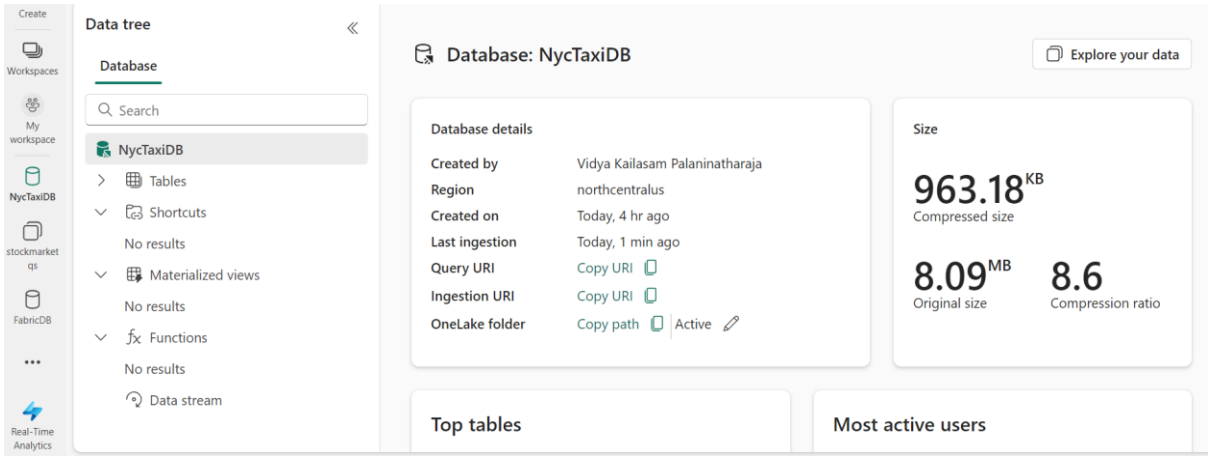
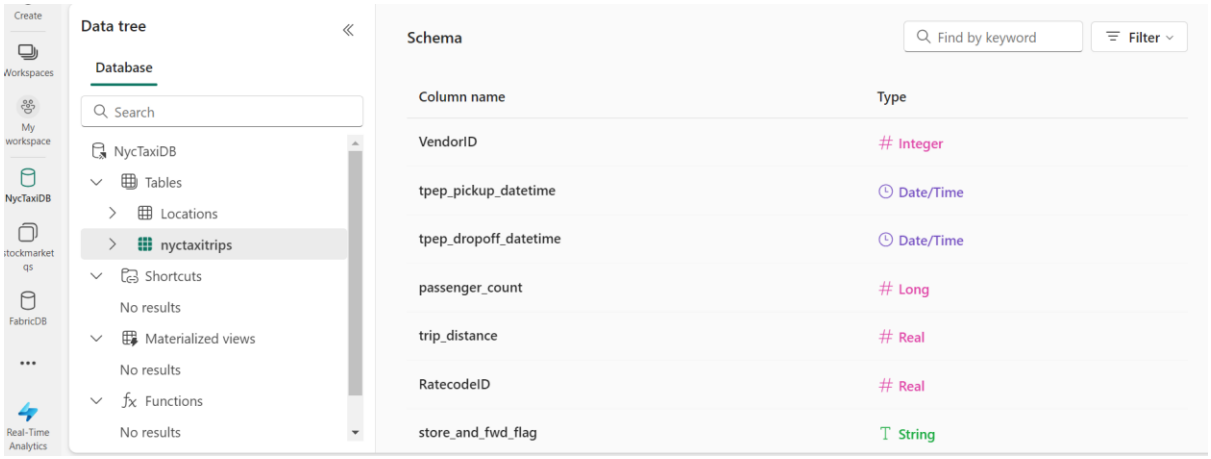
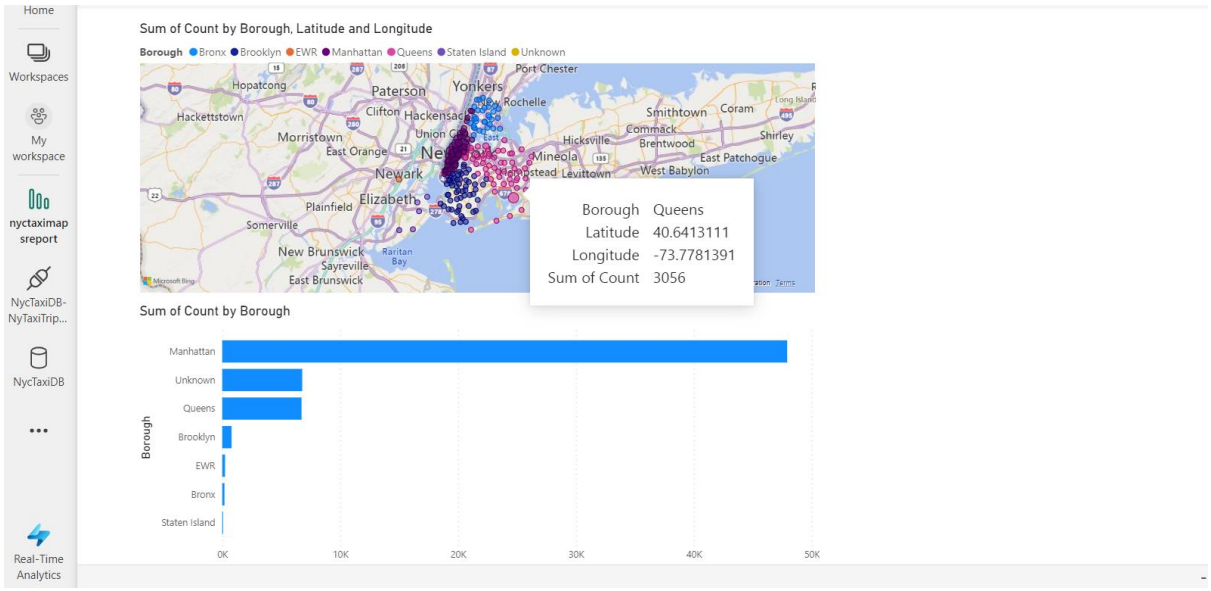
REAL-TIME ANALYTICS: NYC TAXI TRIPS

Using Microsoft Fabric- an end-to-end analytics solution with full-service capabilities including data movement, data lakes, data engineering, data integration, data science, real-time analytics, and business intelligence.










```
nyctaxitrips
| summarize Count=count() by PULocationID
| top 10 by Count

nyctaxitrips
| lookup (Locations) on $left.PULocationID == $right.LocationID
| summarize Count=count() by Zone
| top 10 by Count
| render columnchart

nyctaxitrips
| lookup (Locations) on $left.PULocationID==$right.LocationID
| where Borough == "Manhattan"
| make-series s1 = avg(tip_amount) on tpep_pickup_datetime from datetime(2022-06-01) to datetime(2022-06-04) step 1h
| extend anomalies = series_decompose_anomalies(s1)
| render anomalychart with (anomalycolumns=anomalies)
```

```
nyctaxitrips
| lookup (Locations) on $left.PULocationID==$right.LocationID
| where Borough == "Manhattan"
| make-series s1 = count() on tpep_pickup_datetime from datetime(2022-06-01)
to datetime(2022-06-08)+3d step 1h by PULocationID
| extend forecast = series_decompose_forecast(s1, 24*3)
| render timechart

nyctaxitrips
| where PULocationID == DOLocationID
| lookup (Locations) on $left.PULocationID==$right.LocationID
| summarize Count=count() by Borough, Zone, Latitude, Longitude
```