EDA Visualization

Building Queries and Visualizations

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SQL

USE CATALOG samples;

SELECT

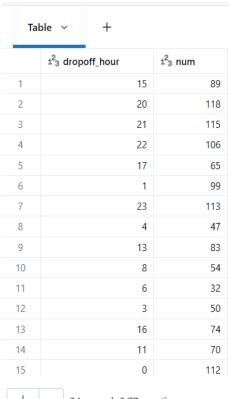
hour(tpep_dropoff_datetime) as dropoff_hour,

COUNT(*) AS num

FROM samples.nyctaxi.trips

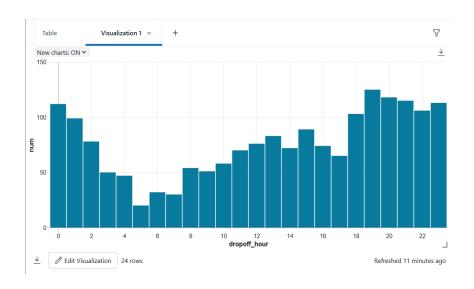
WHERE pickup_zip IN ('10001', '10002')

GROUP BY 1;



<u>↓</u> ∨ 24 rows | 3.77s runtime

Bar Chart Visualization



Python

```
from pyspark.sql.functions import hour, col
```

pickupzip = '10001' # Example value for pickupzip

df = spark.table("samples.nyctaxi.trips")

result_df = df.filter(col("pickup_zip") == pickupzip) \

 $. group By (hour (col("tpep_drop off_date time")). a lias ("drop off_hour")) \setminus \\$

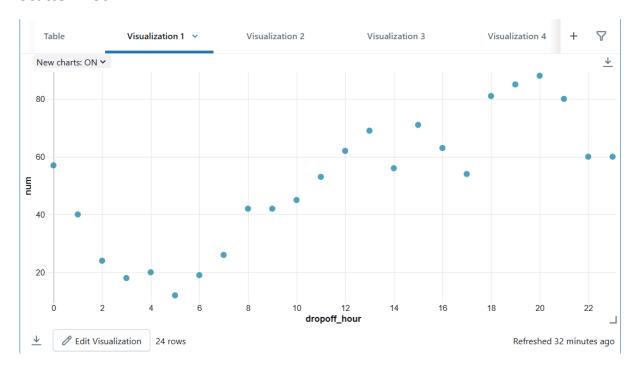
.count() \

.withColumnRenamed("count", "num")

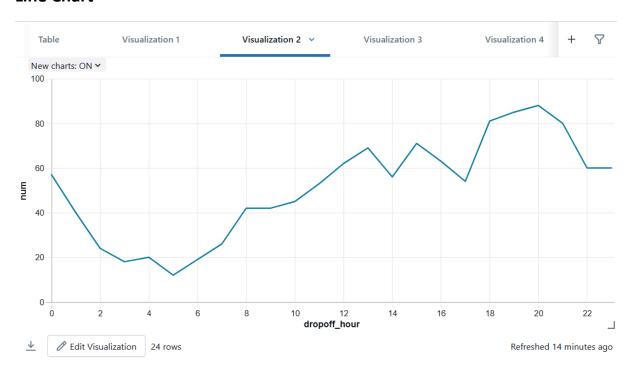
display(result_df)

	1 ² 3 dropoff_hour	1 ² ₃ num
1	15	7
2	20	8
3	21	8
4	22	6
5	17	5
6	1	4
7	23	6
8	4	2
9	13	6
10	8	4
11	6	1
12	3	1
13	16	6
14	11	5
15	0	5

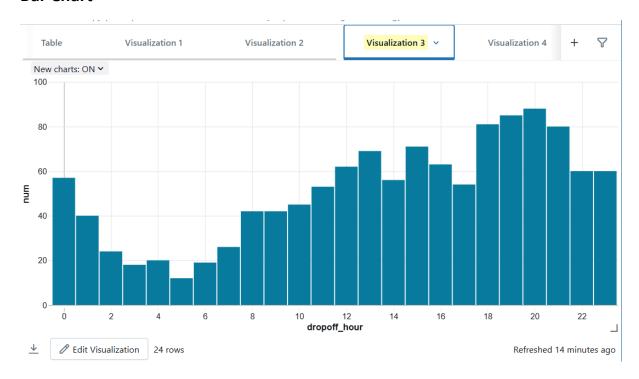
Scatter Plot



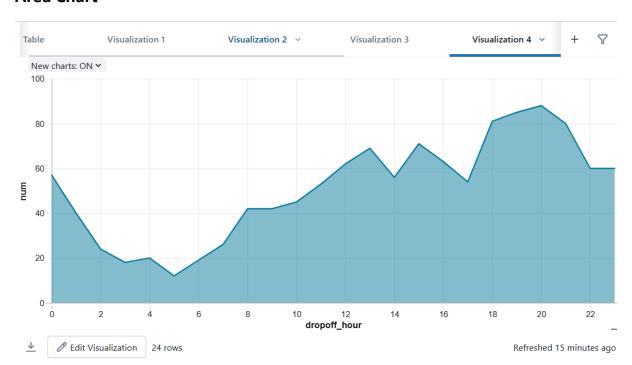
Line Chart



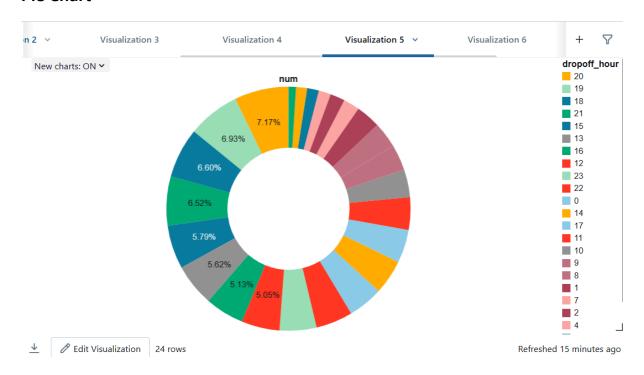
Bar Chart



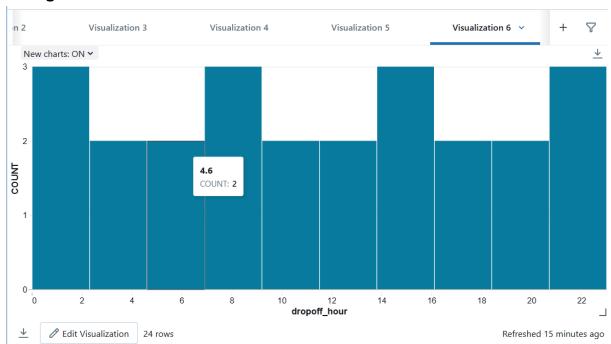
Area Chart



Pie Chart



Histogram



Box Chart

