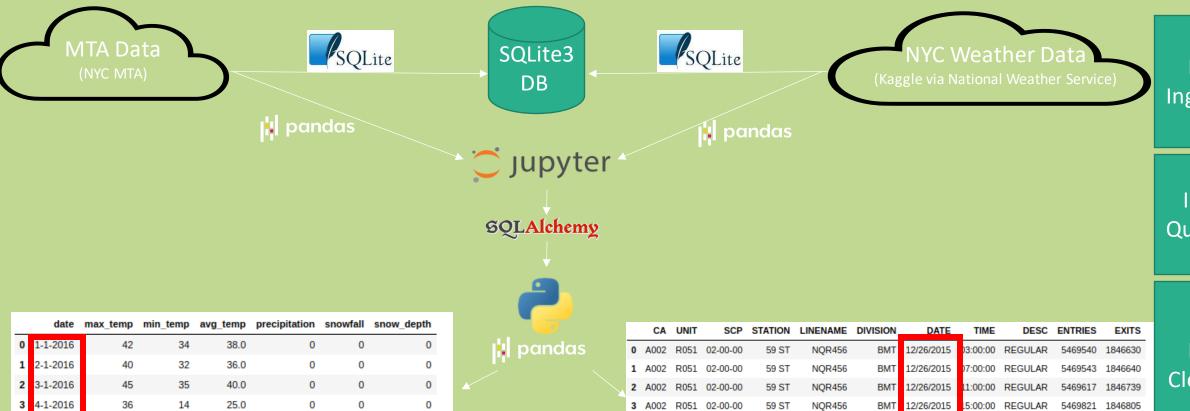


- Explore effects on subway traffic:
 - Temperature
 - Precipitation
 - Snowfall

How do different stations respond?

Characteristics of the relationship



| pandas

entries daily entries max temp avg temp precipitation snowfall snow depth day of week station min temp 1AV 2016-01-02 4246496 3365.0 40 32 36.0 0.00 0.0 0.0 Saturday 1 AV 2016-01-03 4249815 3319.0 45 35 40.0 0.00 0.0 0.0 Sunday 1 AV 2016-01-09 4275815 4326.0 40 43.5 0.0 0.0 0.25 Saturday 10 2016-01-10 4279327 3512.0 59 40 49.5 1.80 0.0 0.0 Sunday 1 AV 2016-01-16 4305378 4225.0 52 42 47.0 0.24 0.0 0.0 Saturday

N

11

pandas

20.0

4 5-1-2016

29



0

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4 A002 R051 02-00-00

59 ST

NQR456



.9:00:00 REGULAR

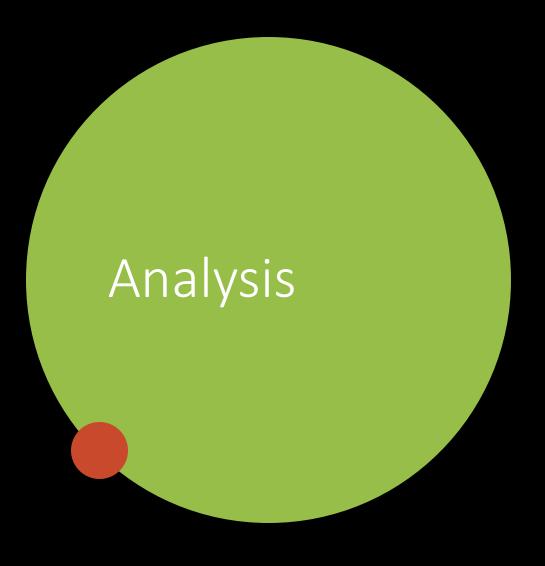
5470180 1846874

Data Ingestion

Initial Querying

Data Cleaning

Analytics & Visuals

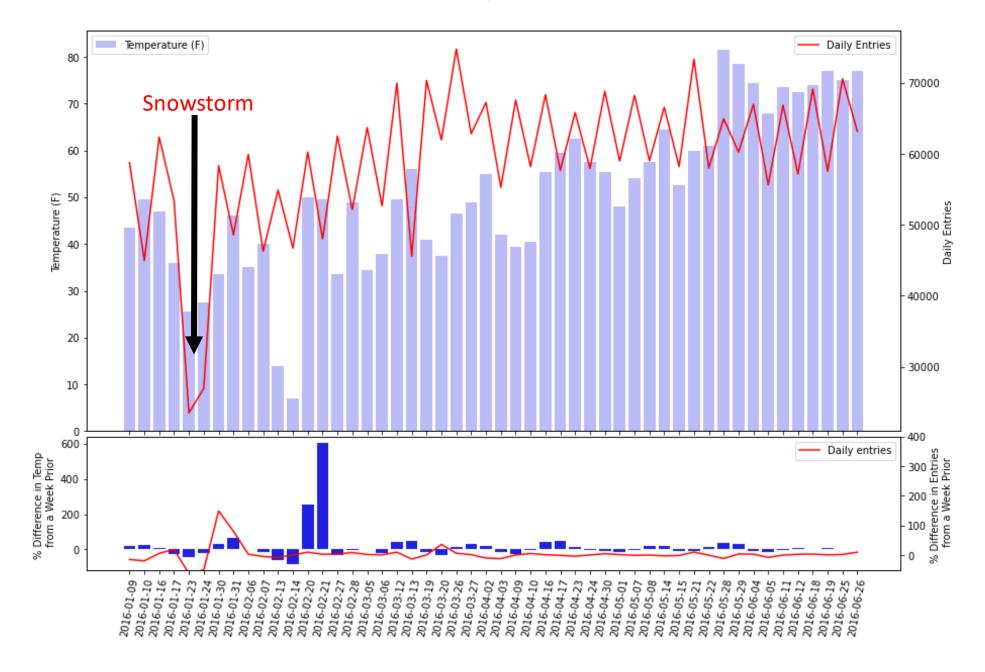


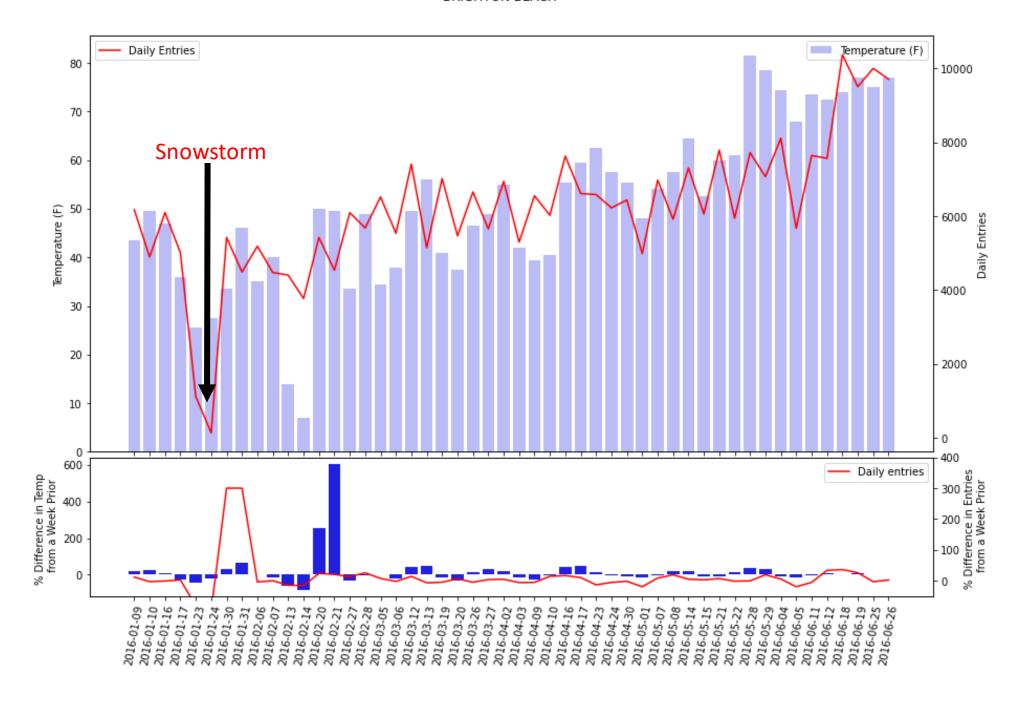
• January 1 though June 30, 2016

Weekends

Temperature

• Stations more impacted by weather







 Some stations (typically near beaches or parks) are much more sensitive to termperature changes

 Day of the week matters (even Saturday vs. Sunday)

 People do more when it is nice out but they still take the subway to get there

Future Work

Focus on day of week

 Statistical analysis to quantify relationships at different stations

 Account for one time events (holidays, marathons, etc.)

Regression Model