

Data Analytics Training Project



By Nate Vu

Training

Uber Data Analytics Project

<https://www.youtube.com/watch?v=WpQECq5Hx9g&t=439s>

WHAT I LEARNED

- Data Modeling
 - Lucid Chart
- Data Transformation
 - Pandas + MageAI data orchestration tool
- Storage
 - Cloud Storage + BigQuery
- Dashboard
 - Looker Studio

HUGE SHOUT OUT TO DARSHIL PARMAR!!



Training Dashboard

<https://lookerstudio.google.com/s/iziRaXW2L7Y>



WATANABE PROJECT Training

Payment Type

Trip Distance

Rate Code

Number of Passengers

VendorID

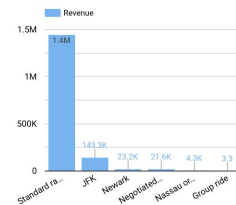
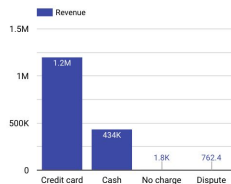
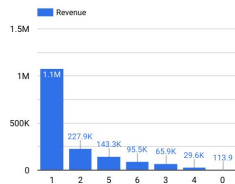
Total Revenue
1.6M

Average Fare
13.3

Average Tip
1.9

Record Count
100.0K

trip_distance
3.0



NBA Analytics



Purpose of the project

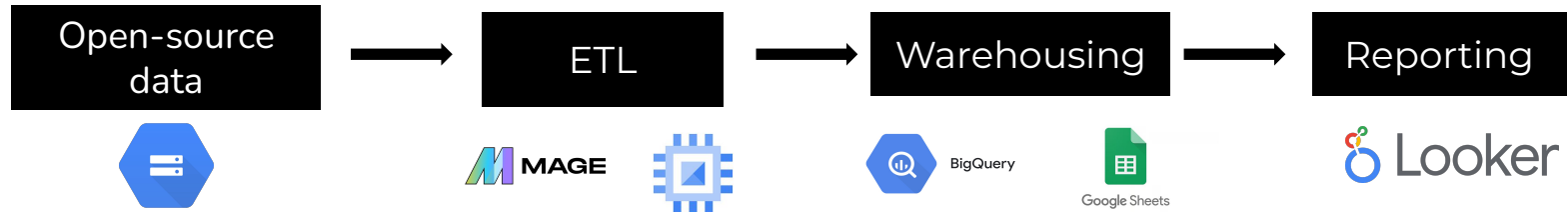
- “Analyze the efficiency of players as well as teams based on players’ statistics of the season of 2022-2023”

Questions to consider:

- What’s the best player in their respective position?
- Is the players’ current position most optimized?
- What’s the strength of each team in terms of positions’ performance?



Project Data Architecture



Tools used



Google Cloud Storage



BigQuery

BigQuery: Data Warehouse



Google Compute Engine: VM



MageAI: Data Orchestration tool



Google Sheets

Google Sheets: Spreadsheets tool



Looker: Data Visualization tool



Project Implementation Steps

- Source data from open-source and clean data before moving cleaned data to Cloud Storage ([data source](#))
- Set up Virtual Machine (VM) environment in Google Cloud
- Load data from Cloud Storage to ETL pipeline using MageAI and VM
- Transform and export data to BigQuery
- Query data from BigQuery to perform analytics
- Store queried data as csv files on Google Sheets
- Visualizing data using LookerStudio



Products

Transformation and SQL Codes:

<https://github.com/nateVu0681147/nba-analytics-project>

Spreadsheets:

<https://docs.google.com/spreadsheets/d/1ixPVUrJPNWWg9lRYaxgPTpWGIMwoDlaLFo5ls7uQJao/edit?usp=sharing>

NBA Team Efficiency report:

<https://lookerstudio.google.com/reporting/b693dd3d-6fc2-43fa-ac58-5941564c1af3>

NBA Player Efficiency report:

<https://lookerstudio.google.com/reporting/82509610-0dae-4cba-9eed-89faa1e02f3f>



Thank you so much for having viewed
this!!!

