

# Team 3

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## Title

- Foreign Exchange ETL and Market Analysis

## Change History

- Document Created 2/19/2024

## Objectives

- Data will be sourced from a foreign exchange rate API and converted to Pandas dataframes.
- Data will be cleaned (deal with nulls, duplicates, outliers).
- A schema will be designed and a MySQL database will be set up on RDS.
- Data will be exported into the database.
- Analytical queries will be run on the structured data to derive insights and create visualizations.

## Success Metrics

- Straight forward schema design.
- Pipeline generalized for new data.
- Data/database is robust for analysis.

## Messaging

- TBD (This is for presenting important info, like changes in the plan).

## Timeline & Release Planning

- One week for Complete product to be available for demonstration.

## Personas

- Chief of police, Jay L. Thyme wants to make more efficient use of his police force in L.A. He's hired our team of data scientists to take in crime data from the city and provide insight on the types of crimes being committed.

## Scenarios

- Jay has asked us to create a dashboard that he can use to view the trends in crimes being committed in the city.
- Jay also wants a detailed breakdown of any patterns or insights we may find while working with the data.

## Features In

- Semi-Auto data loading into RDS Database [M]
- Statistics of L.A crime rates [M]
- A dashboard to view analytics and visualizations [M]
- Host dashboard on live website [O]

## Features Out

- Custom Dashboard

## Designs

- Schema

## Open Issues

- None yet!

## Q&A

Reach out and ask if you have any questions!