
WIZE Academy Franchise Data Storage and Visualization

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Project Timeline

Plan/Requirements- 3 days

Researched to find best tools to store data and work with current needs, as well as easiest ways to visualize with current sources

Implementation - 2 weeks

Wrote and tested code to load data into a BigQuery table, create separate table for cleaning, and condense into final view; imported view into Looker Studio to create dynamic visualizations

Design - 2 days

Finalized data storage and processing pipeline and wrote requirements for Apps Script

Next Steps

Edit workflow based on client needs, test on full dataset and debug if necessary

Components

→ **BigQuery Project**

Contains two tables and one view: the original table imported from the sheet, the table with data types cleaned and adjusted, and the final aggregated view called from the cleaned table

→ **Apps Script**

Controls all functionality of data storage. Downloads current Google Sheet as a CSV, uploads it as a table in BigQuery, and runs all queries to clean and finalize the data. Scheduled to run once a day.

→ **Looker Studio Dashboard**

Holds all visualizations. Will update automatically with the data. Can be edited and updated with more visualizations as needed.

Updating Steps

→ If new question is added

- modify clean-table or final-clean-table query to adjust the question's data type if necessary
- modify final-clean-table query to make the new question row available in the view
- add new visualization in looker studio with the new question

→ If question is deleted

- modify final-clean-table query to make the question row unavailable in the view
- modify/remove visualizations in looker studio that use the question if necessary

→ If question is deleted and re-added

- merge the two question rows in the sheet (move old question column info to new question column and delete old question column info)
- remove the empty old question column from the final view
- if question was removed from the query modify final-clean-table query to make the question row available in the view



Resources

[Apps Script](#)

BigQuery

[Looker Studio Dashboard](#)