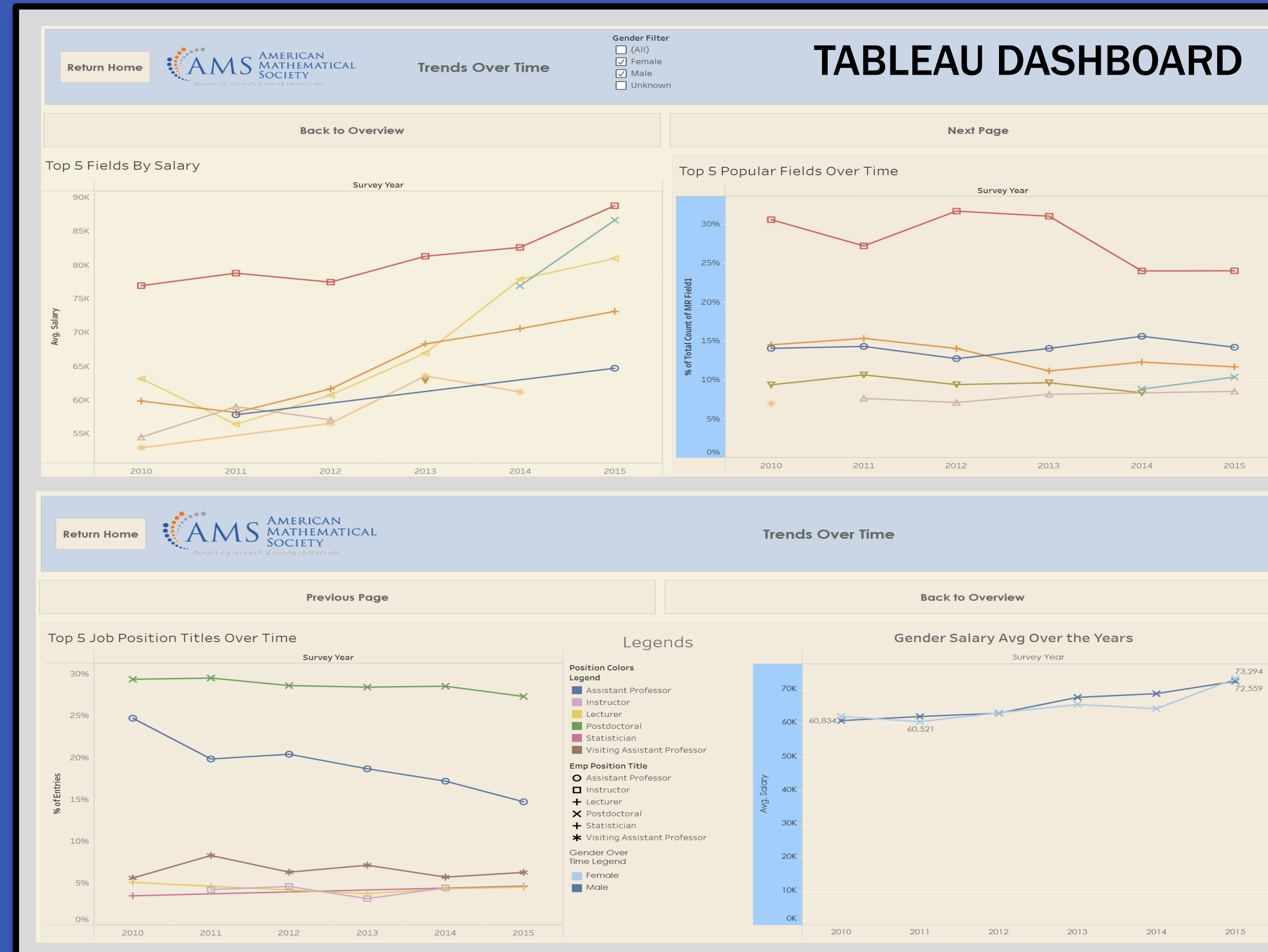


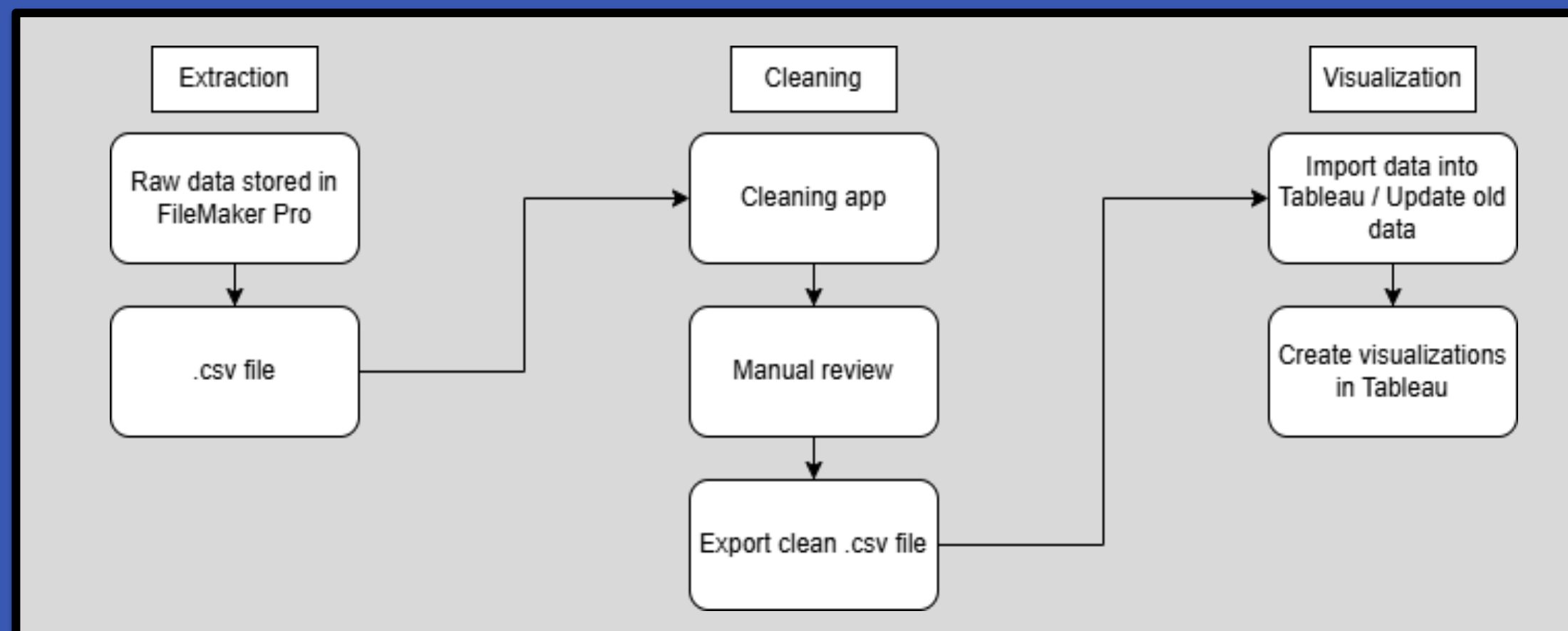
## PROJECT BACKGROUND

- AMS collects data on mathematics professions
- The data is stored in FileMaker Pro which is being discontinued
- We needed to extract the data and create an interactive dashboard
- Building on dashboard from last year



## FEATURES

- The Tableau dashboard is easily accessible via the Tableau website. Users can interact with the dashboard in the following ways:
- Move between pages to see different visuals
  - Hover points on the visuals to get more detailed information
  - Click a point on the visual to focus on it
  - Use filters at the top of the dashboard to dive deeper into the data.



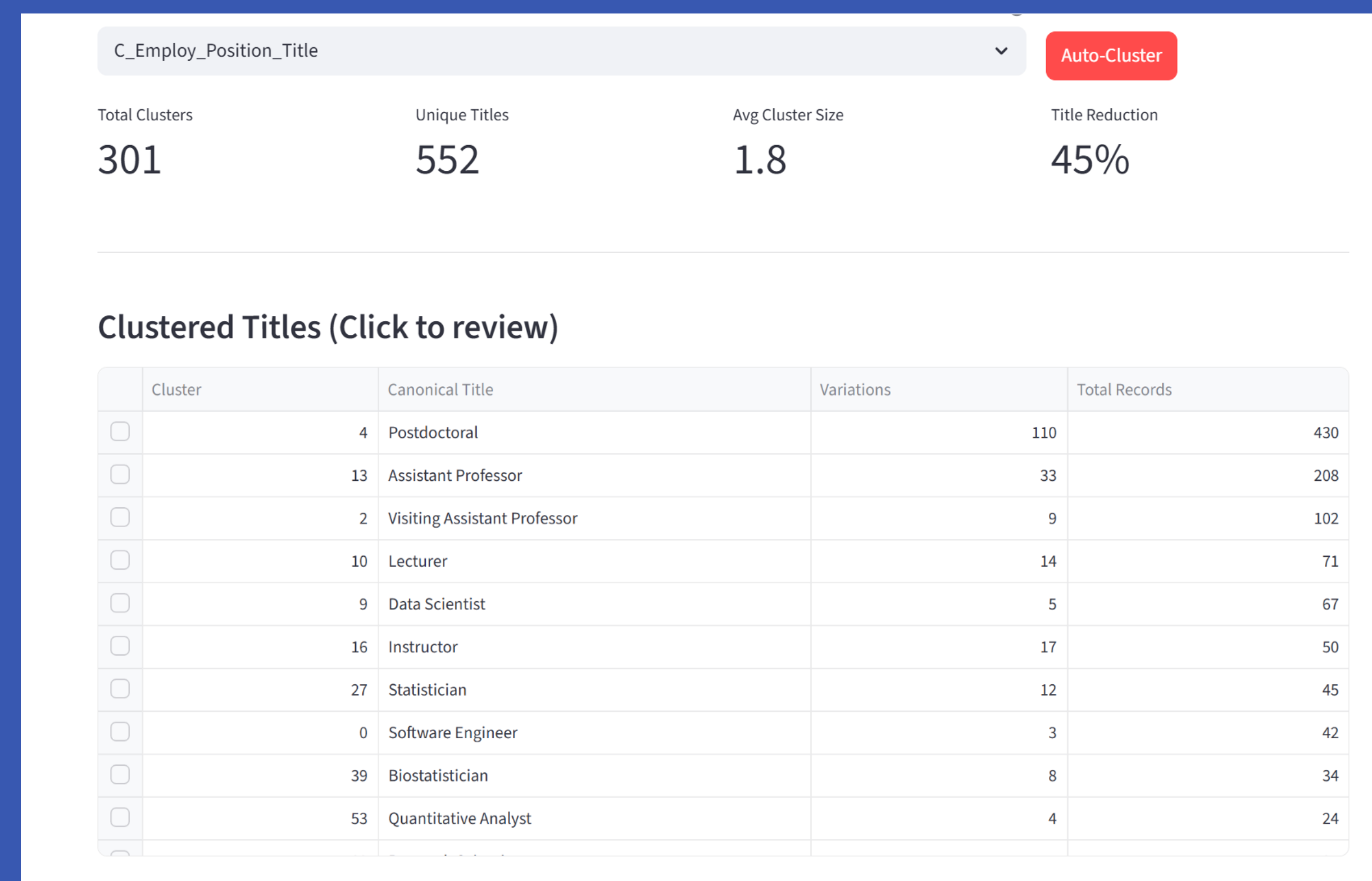
## METHODOLOGY

- Extraction: Exported data out of FileMaker Pro into Excel
- Cleaning: Created a Streamlit app to automatically fix all errors in the data
- Visualization: Used Tableau to create graphs showing different types of trends in the data

## STREAMLIT APP

- Developed a Streamlit web app: Survey Data Cleaner
- Interactive interface for reviewing and exporting cleaned datasets
- Automated cleaning of numerical/categorical fields

## Streamlit App



## CONCLUSION

We built on the progress from the last team by extracting more data, better cleaning the data, and expanding the Tableau dashboard. In doing so, we were able to create more insightful visuals with greater data accuracy, which is all accessible to the public.

## FUTURE GOALS

- Extract, clean, and visualize different types of AMS surveys
- Expand on Steamlit app to work in more situations
- Find key insights through new visualizations

## ACKNOWLEDGEMENTS

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