Tableau Prep Project

on

Gender Pay Gap

DATA SCIENCE AND APPLICATION

Of

METRO COLLEGE OF TECHNOLOGY

Submitted to

Prof.Hamid Rajaee

Submitted by

Janah Vijayarathnam

METRO COLLEGE
OF TECHNOLOGY

Tableau Prep

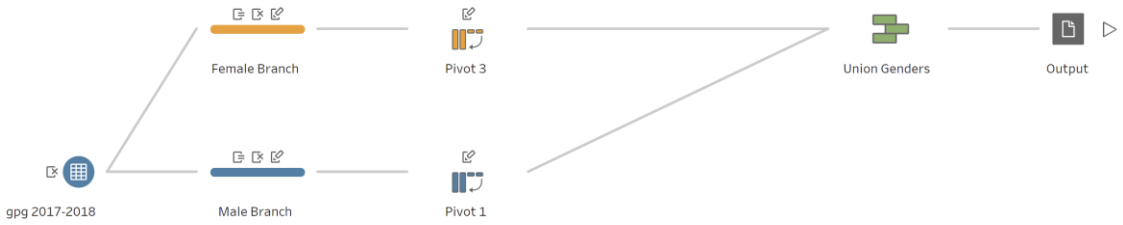
Tableau Prep Builder is a tool in the Tableau product suite designed to make preparing data easy and intuitive. Use Tableau Prep Builder to combine, shape, and clean your data for analysis in Tableau.

Connections pane

On the left side of the workspace is the Connections pane, which shows the connected databases and files. Add connections to one or more data sources and drag the tables you want to work with into the Flow pane.

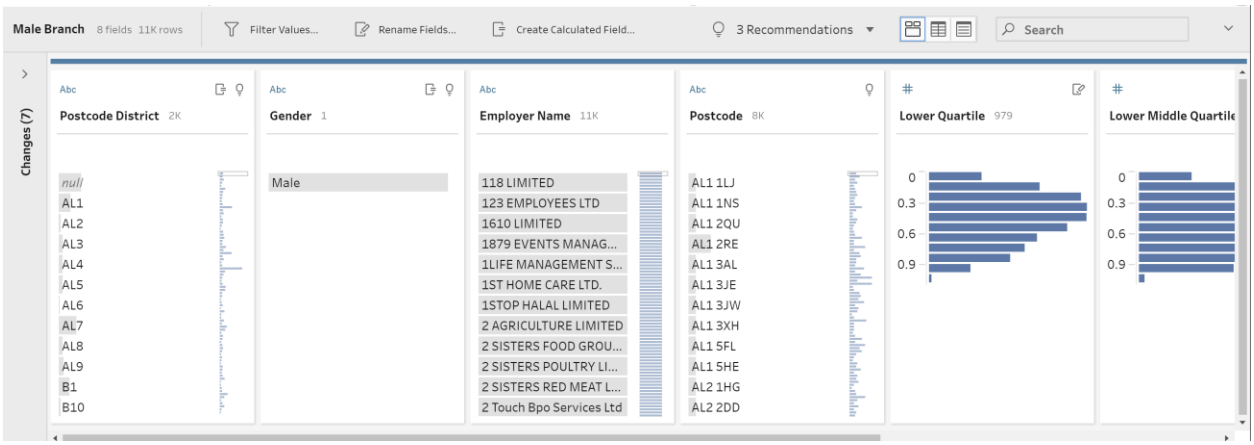
Flow pane

At the top of the workspace is the Flow pane. This is where you'll build your flow. As you connect to, clean, shape, and combine your data, steps appear in the Flow pane and align from left to right along the top. These steps tell you what kind of operation is being applied, in what order, and how your data is affected by it. For example, the Join step shows you which join type you've applied, the join clauses, recommended join clauses, and the fields of the tables that are included in the join.



Profile pane

In the center of the workspace is the Profile pane. The Profile pane shows you the structure of your data at any point in the flow. The structure of your data can be represented in different ways depending on the operation you want to perform on your data or the step that you select in the Flow pane.



About the dataset:

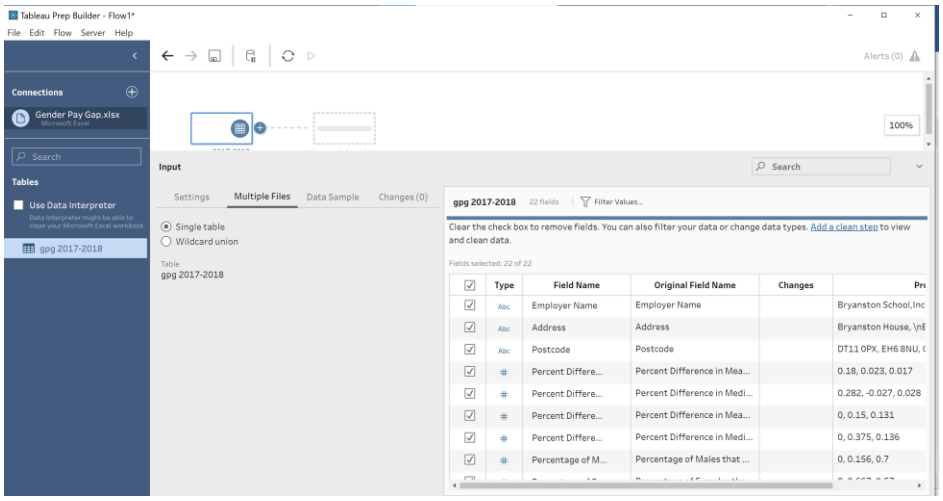
For processing in Tableau prep I have selected an excel file which will be split into 2 parts as

A. Male Branch and
B. Female.

The data is about the Gender pay gap.

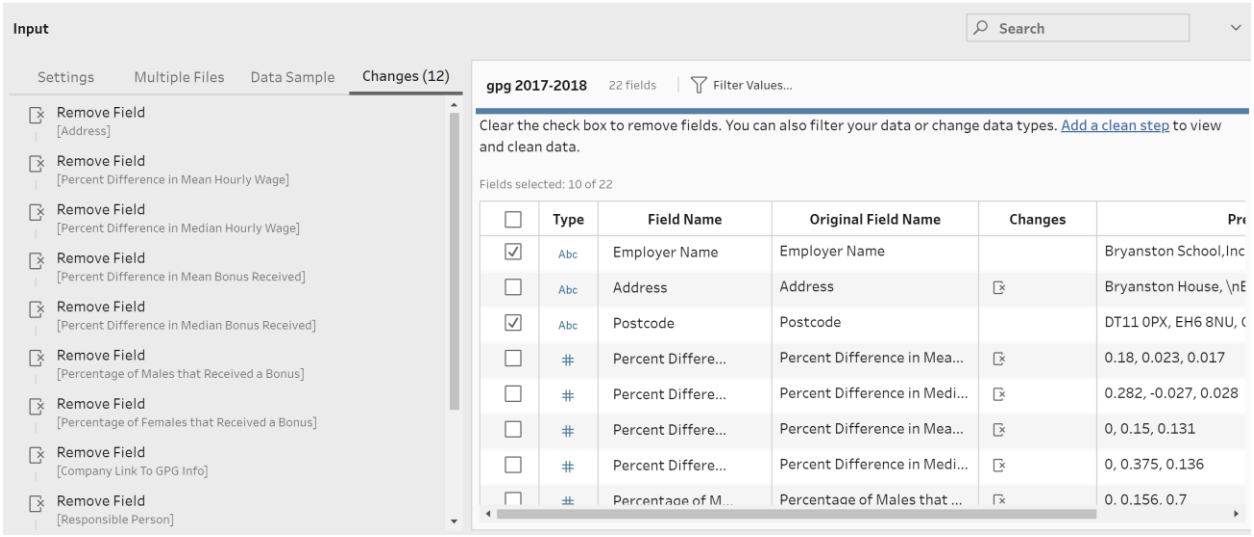
Steps in data processing :

Step 1:Connecting to the data



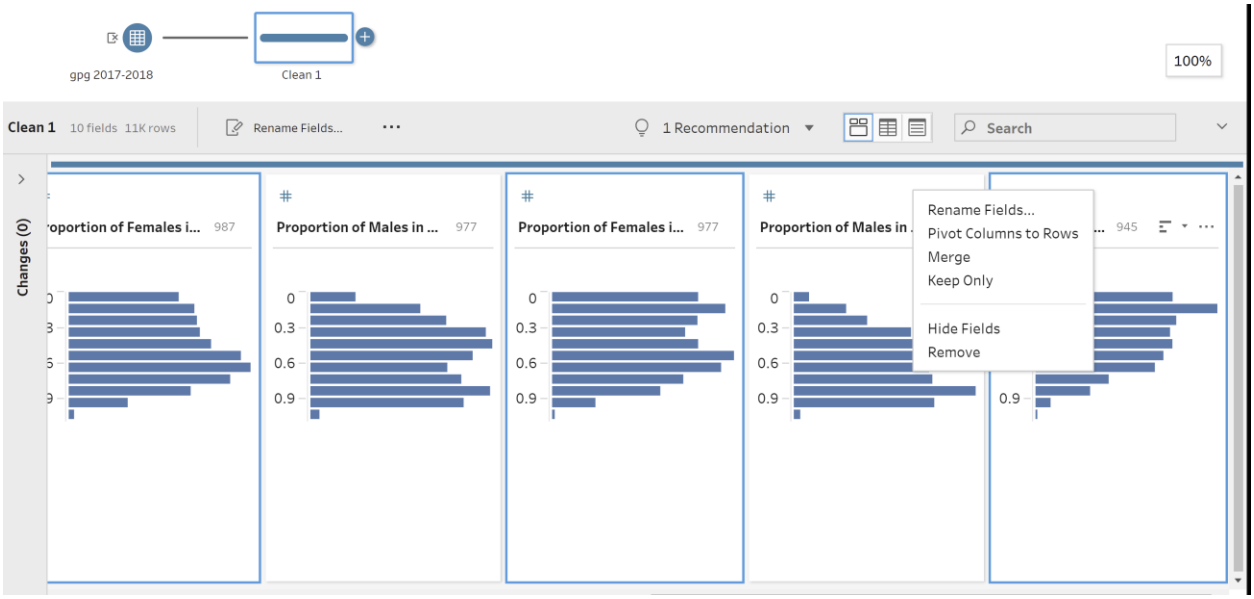
Now we need to clean the data

Step 2: Removing unwanted columns

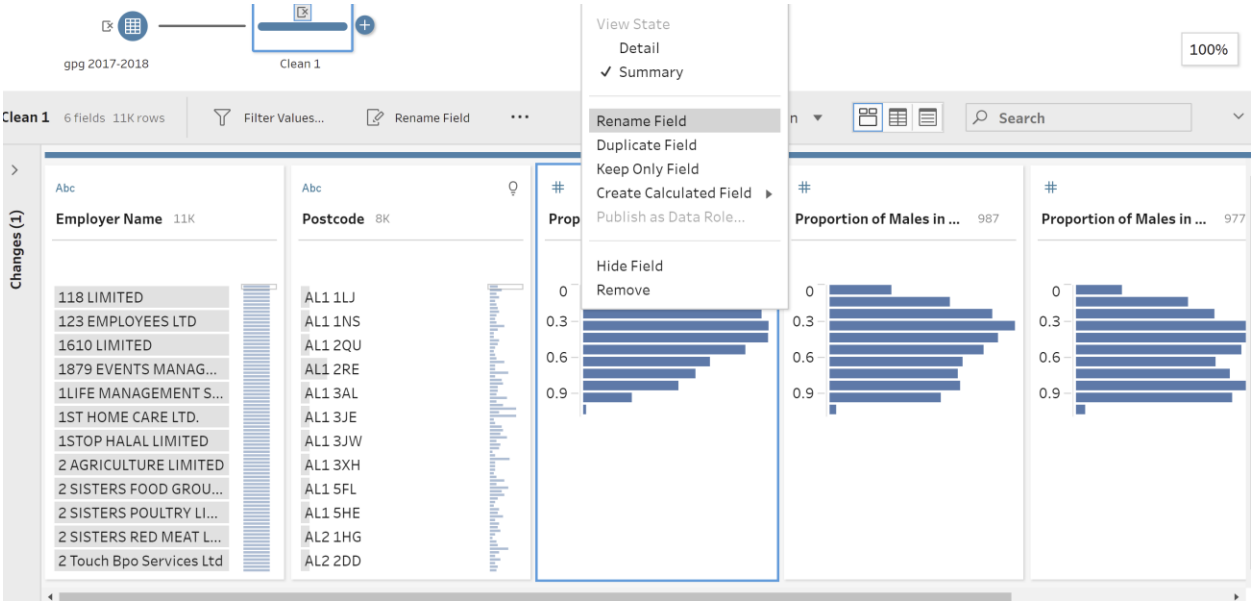


A. MALE BRANCH

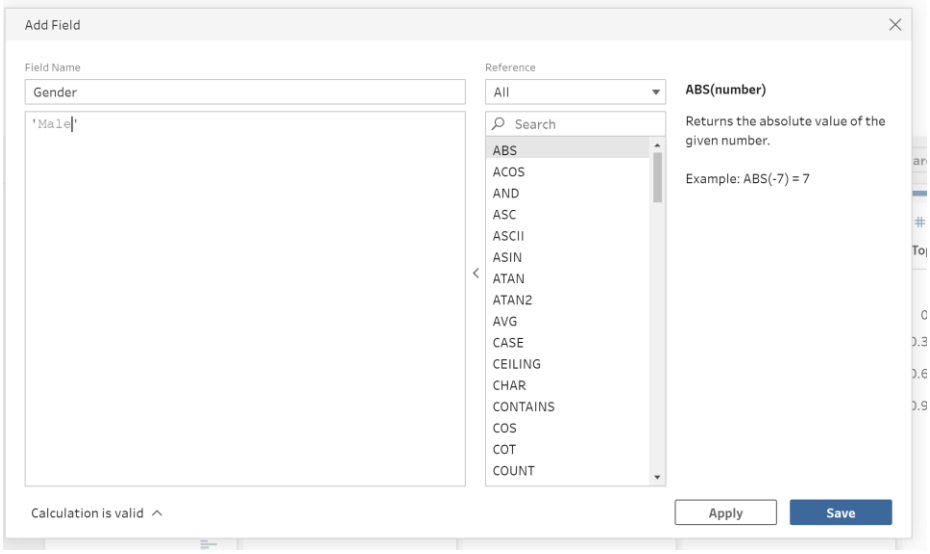
- Removing Female related columns



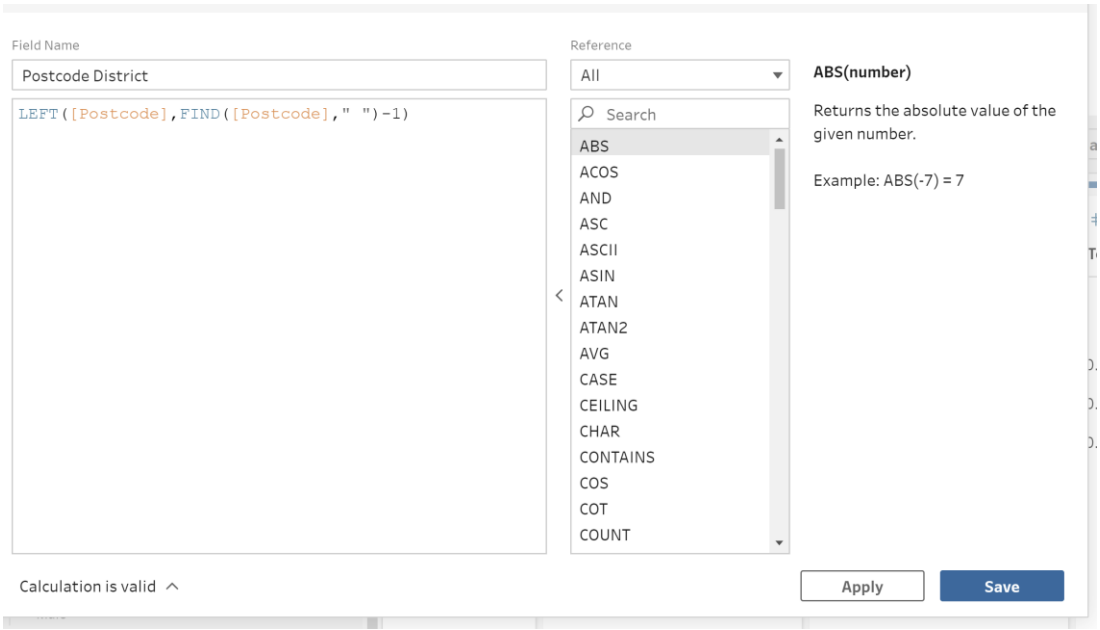
- Now we are renaming few columns



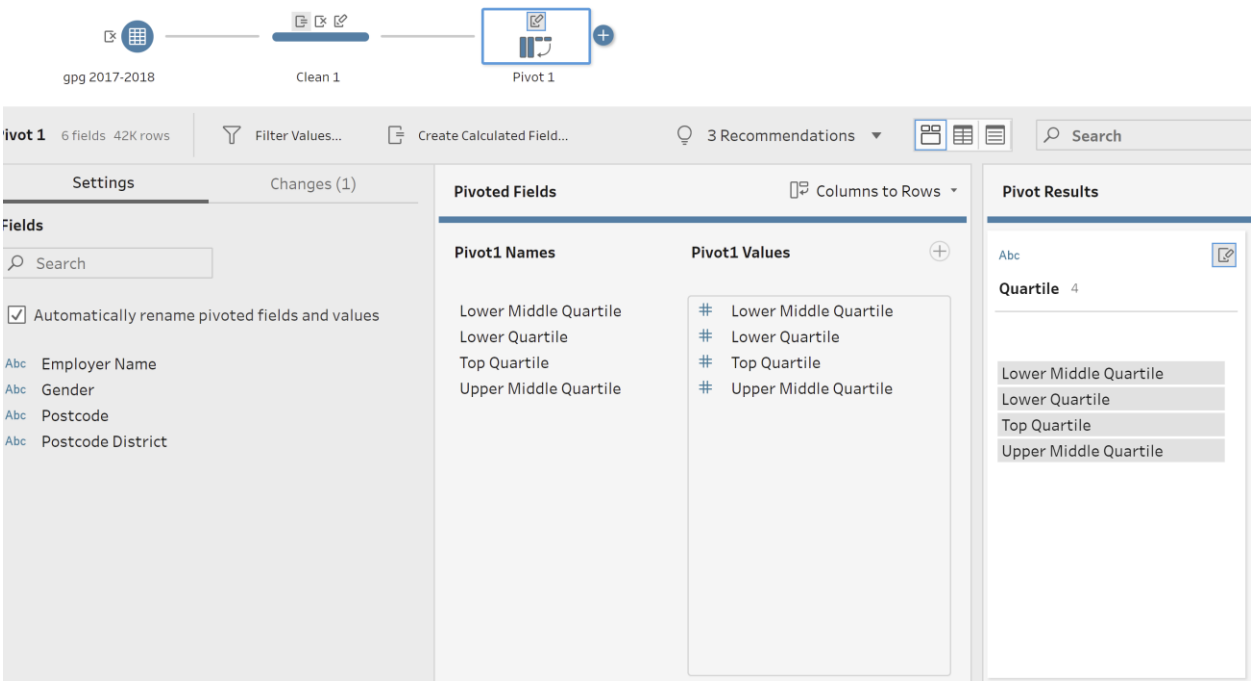
- Creating Gender-Male Column



- Creating new 'Postcode District' column by taking part data from existing column 'Postcode.'



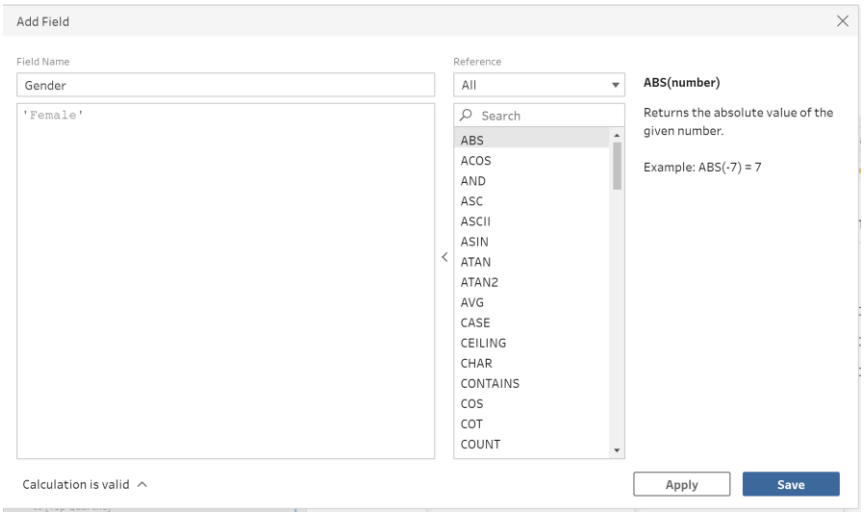
- Creating Pivot table by selecting required columns:



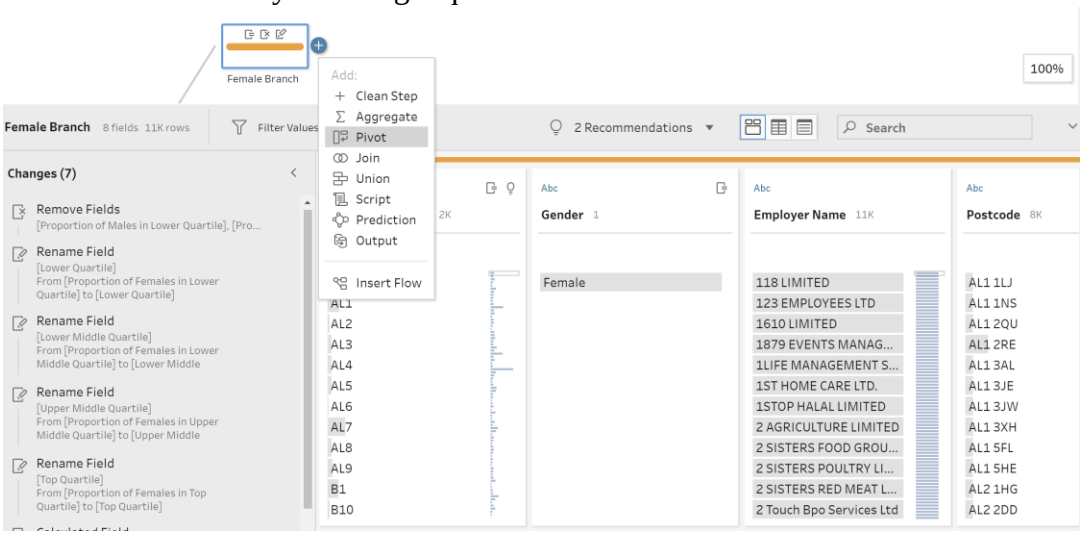
B. FEMALE BRANCH

Repeat the steps:

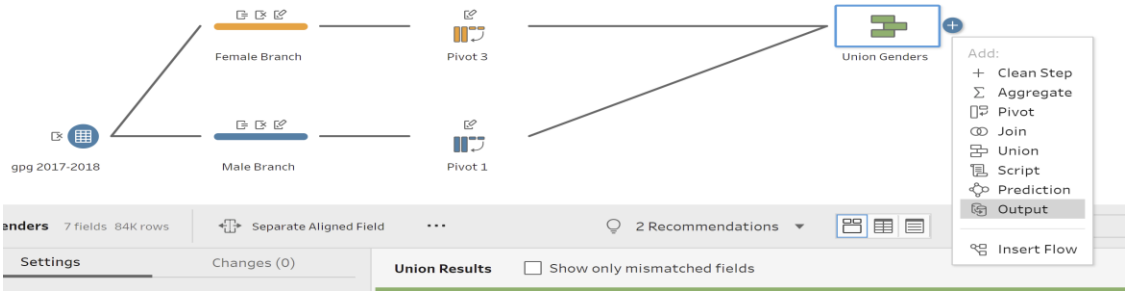
- Removed Male related columns
- Rename Columns
- Created Gender-Female Column

- 

- Created new 'Postcode District' column by taking part data from existing column 'Postcode.'
- Created Pivot table by selecting required columns



Step 4: Now we need to create a union between the Male and Female Pivot tables:



- Now that we have completed the data processing, we can now export this data for visualization or any other purpose.
- Complete workflow in Tableau prep builder: