

Tableau

- Data visualization tool that helps convert raw data into insights
- Allows us to create interactive sheet and dashboard with filters
- Drag-and-drop, highly visual, and optimized for business & data analysis
- No Coding is required for Tableau visualization
- Download Link: <https://www.tableau.com/academic/students>
- Can quickly visualize data and publish as dashboard

Versions

Tableau versions

Tableau Desktop Public Edition

- Free
- All visualizations included
- Excel, csv, Google Sheets, web data
- 15 millions rows of data
- Publish locally¹ and online

Tableau Desktop

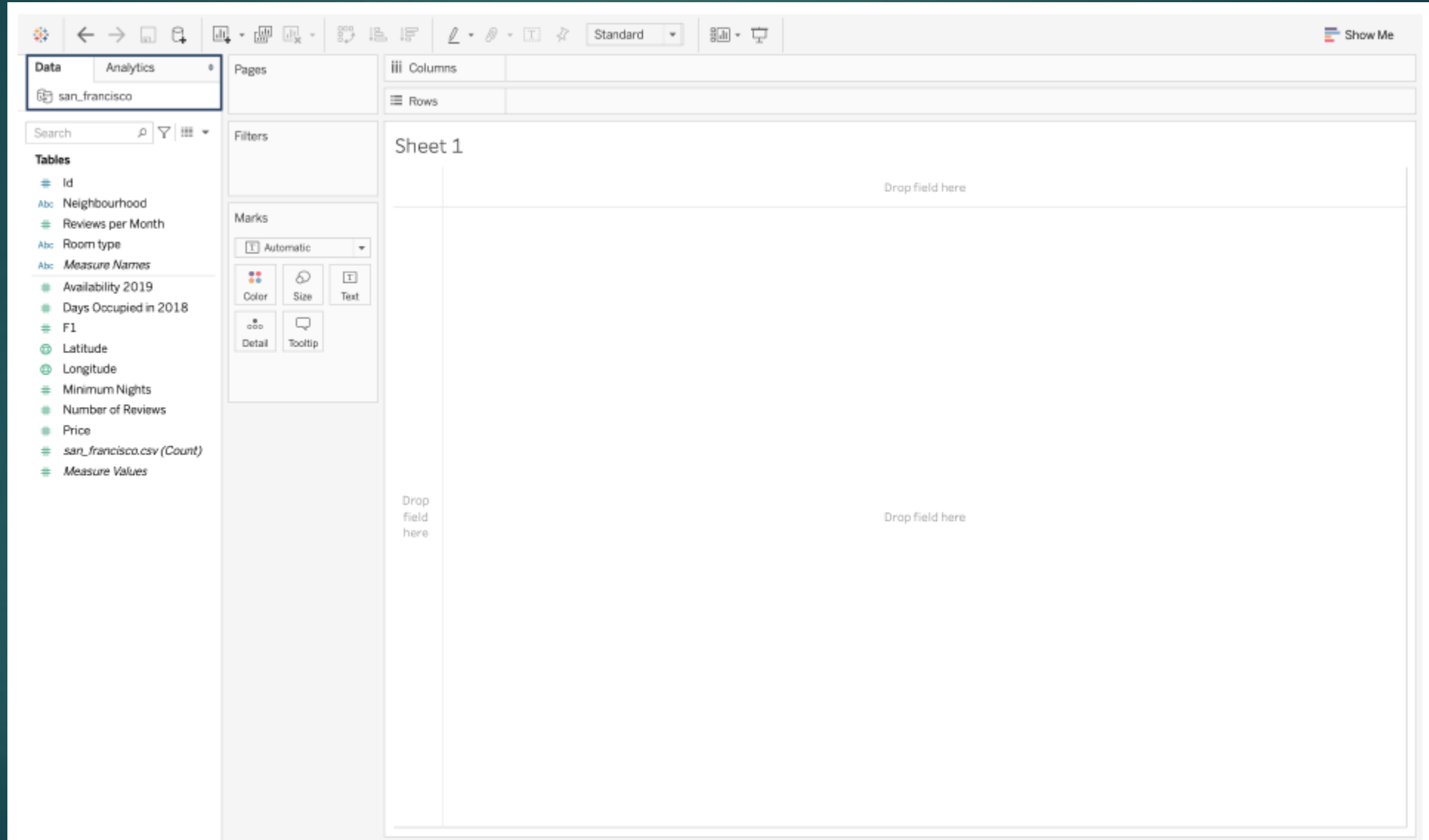
- Paid (license)
- All visualizations included
- All listed data sources
- Unlimited rows of data
- Publish locally and online

Data Load

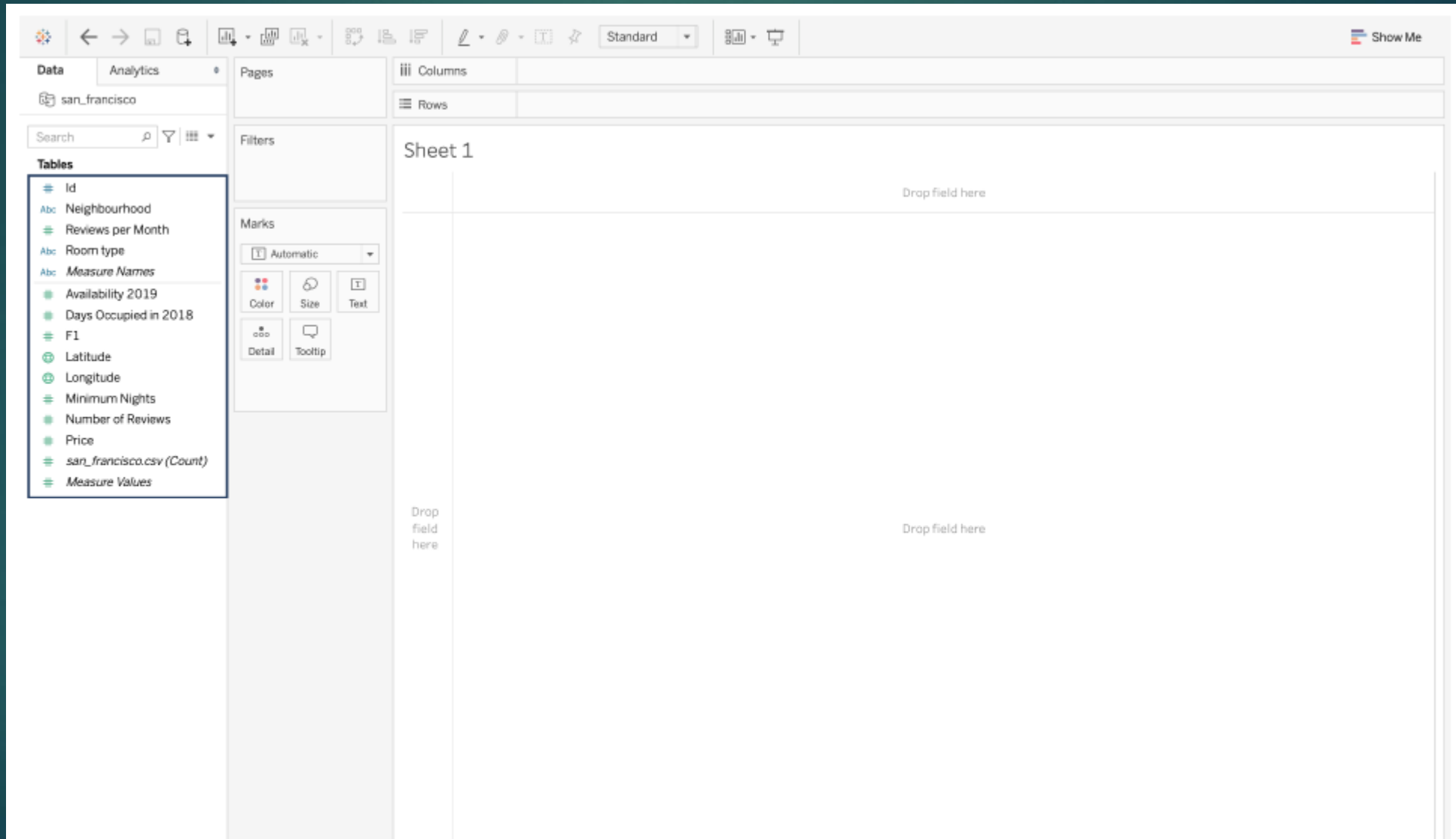


- On free version data can be loaded from csv, Excel
- During data load we can change column name and inspect the data type as well

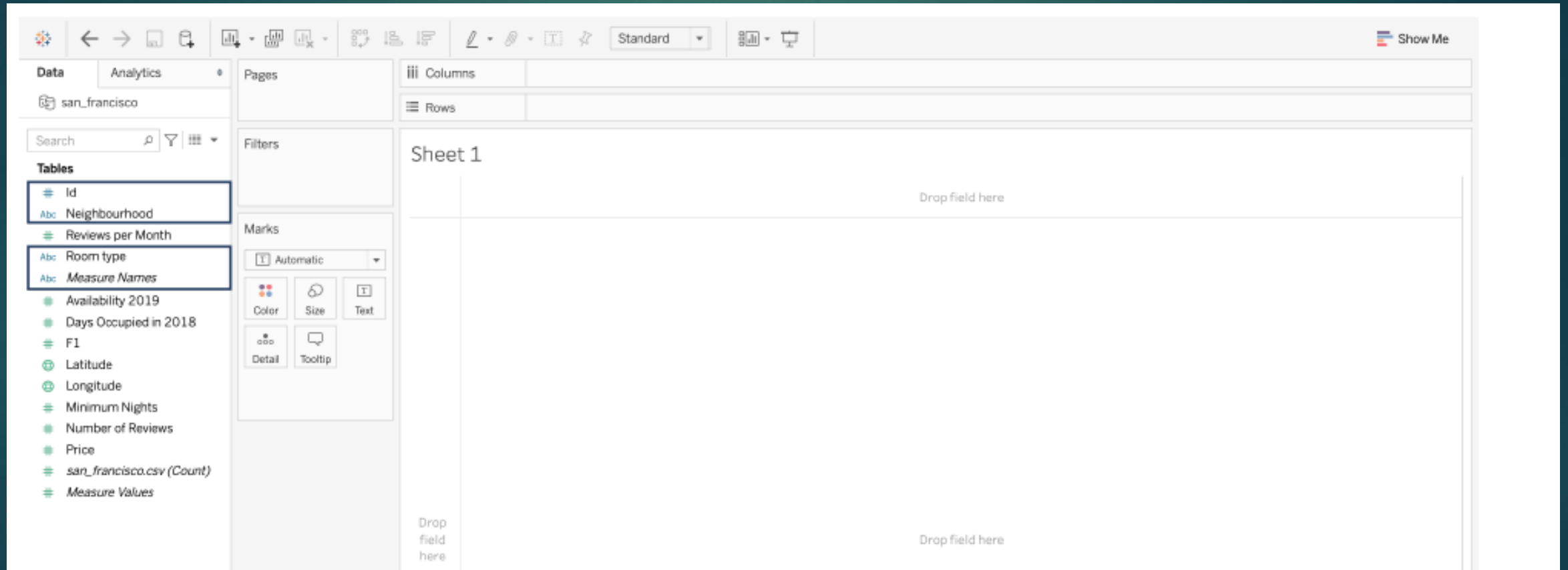
Navigation



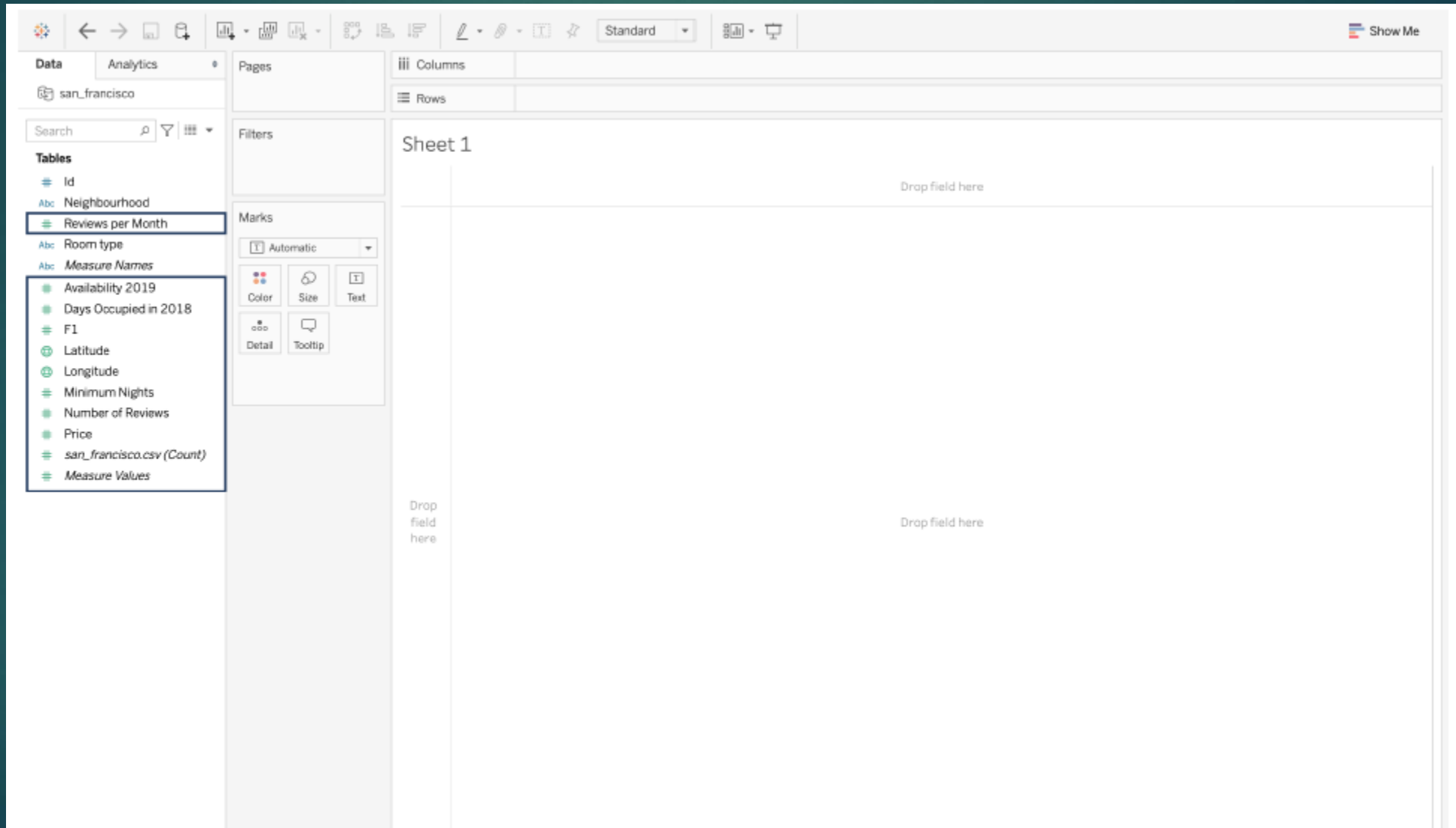
Navigation



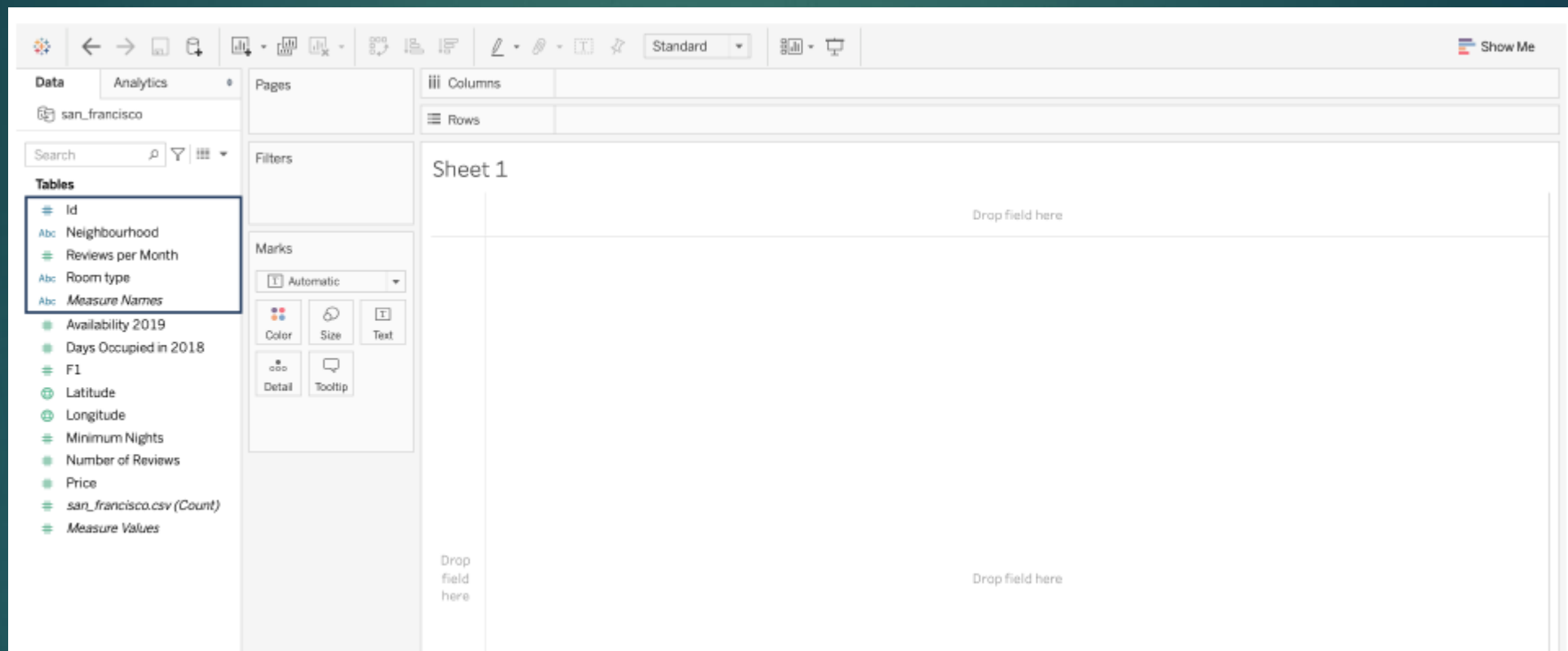
Navigation



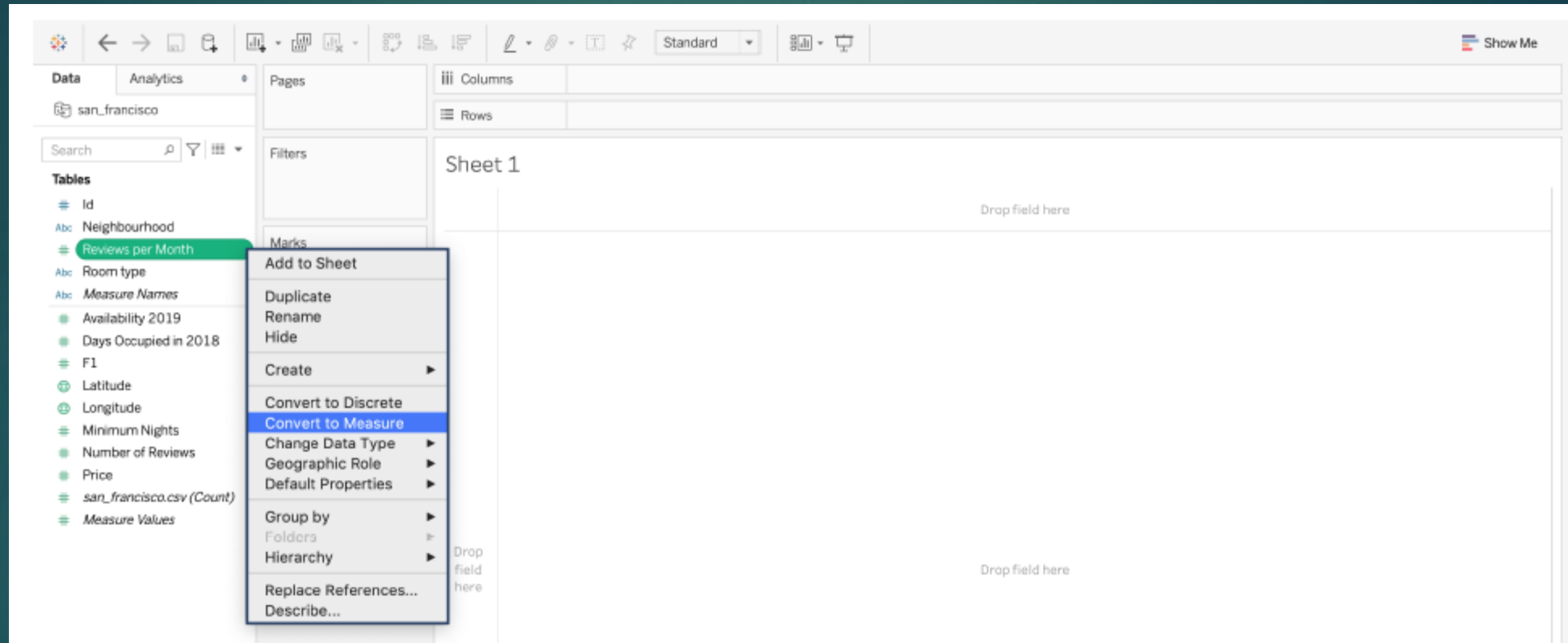
Navigation



Navigation



Dimension to Measure



Data roles in Tableau

Discrete dimension

- Common, colored in blue
- Finite amount of values
- Can't be aggregated
- *E.g.* eye color, sex

Continuous dimension

- Not common, colored in green
- Infinite amount of values
- Can't be aggregated
- *E.g.* date

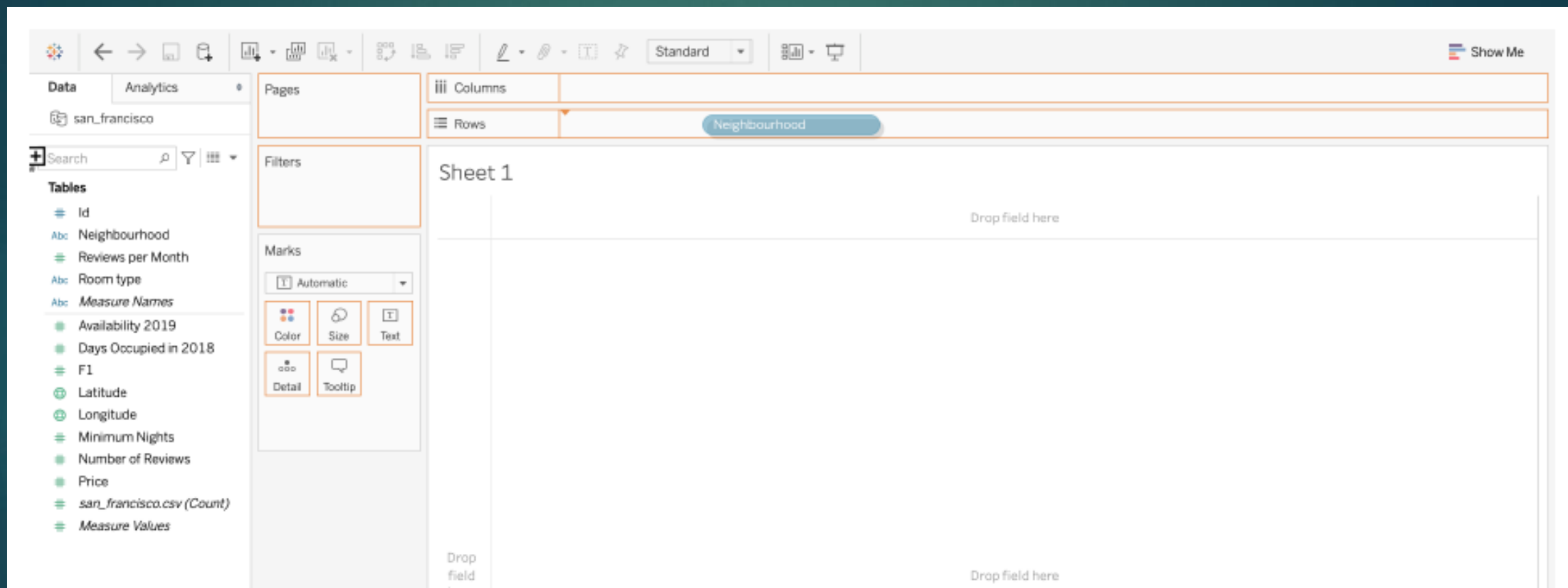
Discrete measure

- Not common, colored in blue
- Finite amount of values
- Can be aggregated
- *E.g.* shoe size, age

Continuous measure

- Common, colored in green
- Infinite amount of values
- Can be aggregated
- *E.g.* height, weight

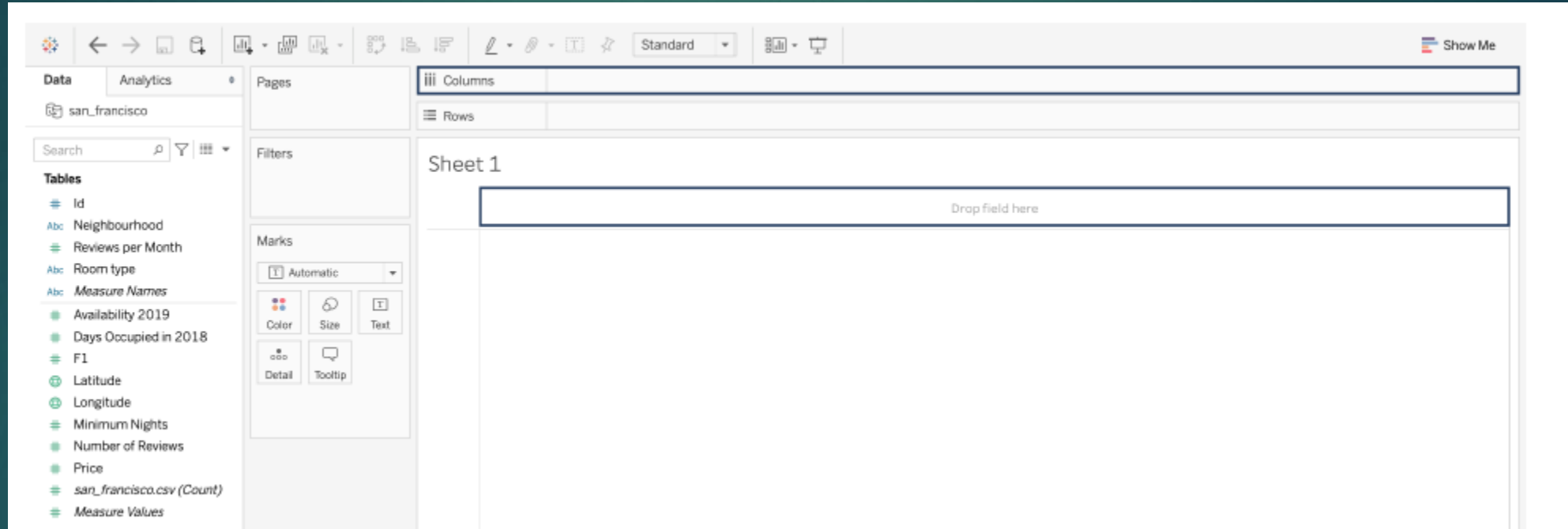
Dragging Fields



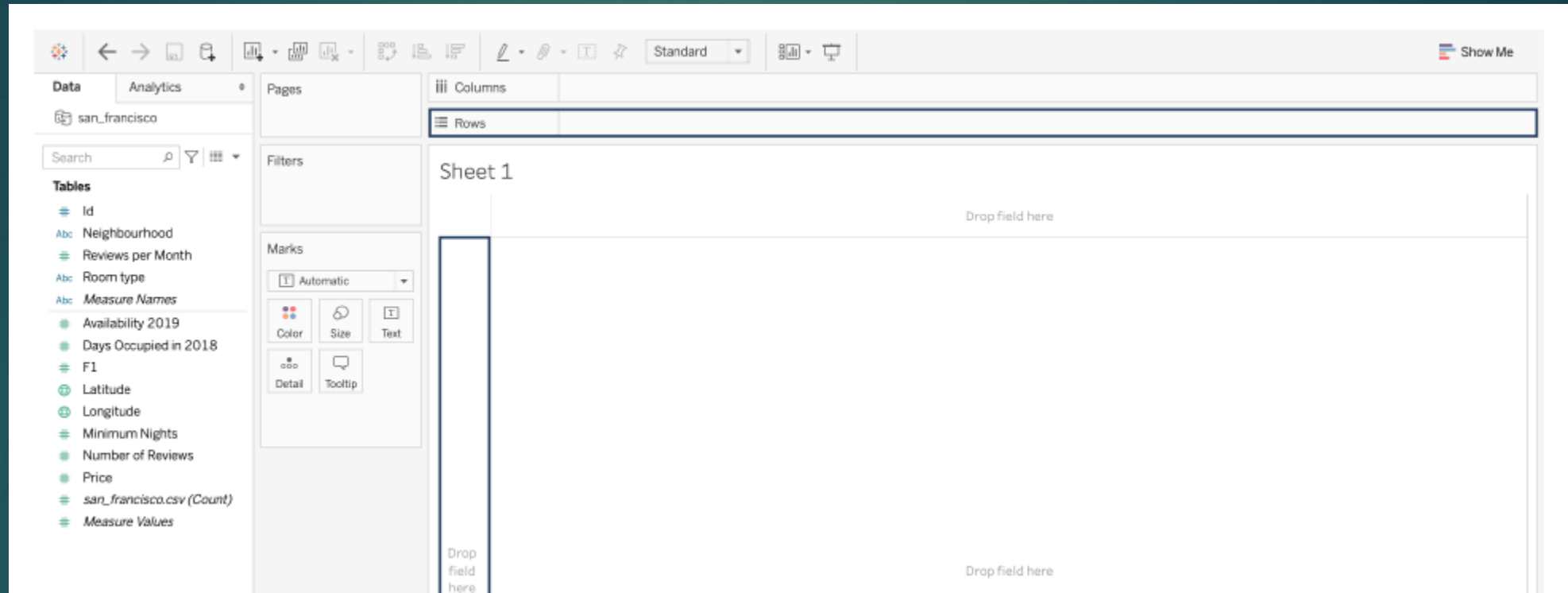
Canvas

The screenshot displays the Tableau Canvas interface. The top toolbar includes navigation and editing tools, a 'Standard' view selector, and a 'Show Me' button. The left sidebar is divided into sections: 'Data' (showing 'san_francisco'), 'Tables' (listing fields like 'Id', 'Neighbourhood', 'Reviews per Month', etc.), and 'Measure Names' (listing measures like 'Availability 2019', 'Days Occupied in 2018', etc.). The main workspace is titled 'Sheet 1' and contains a large empty area with 'Drop field here' prompts. The 'Marks' card on the left shows 'Automatic' as the selected mark type, with options for Color, Size, Text, Detail, and Tooltip.

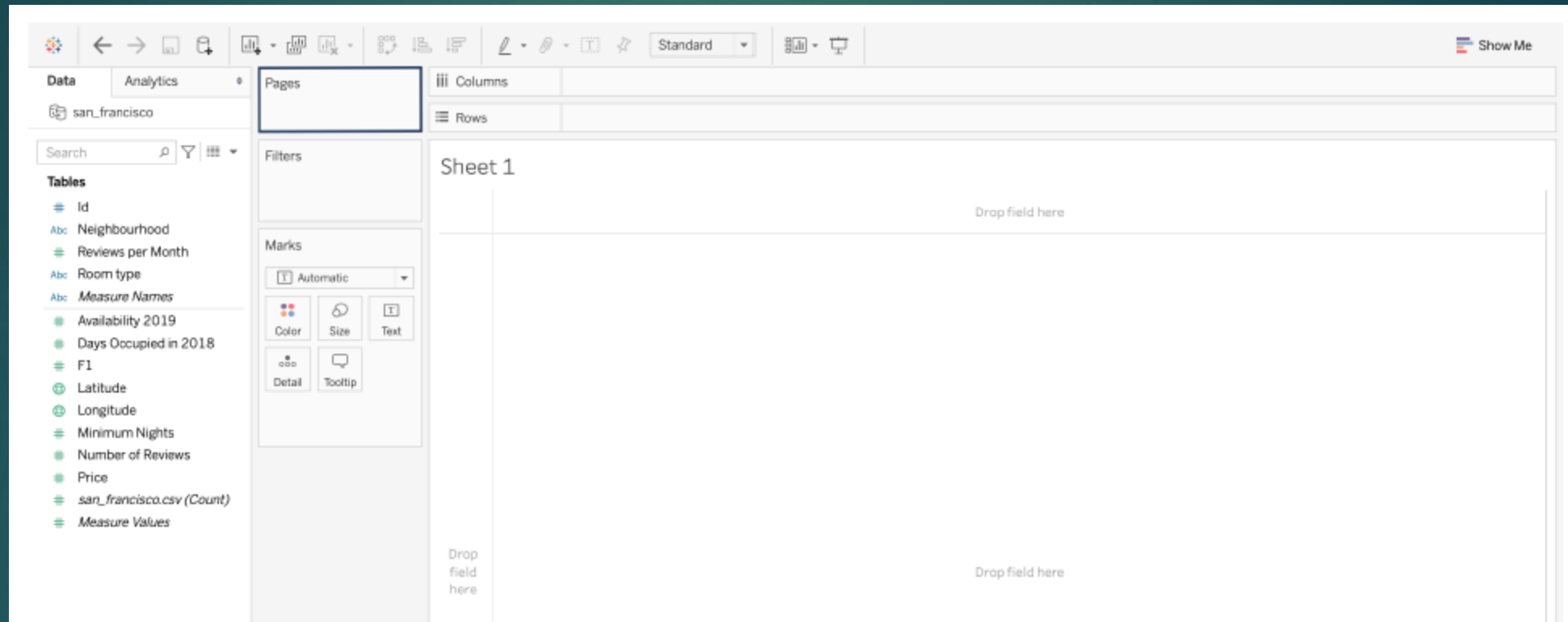
Columns



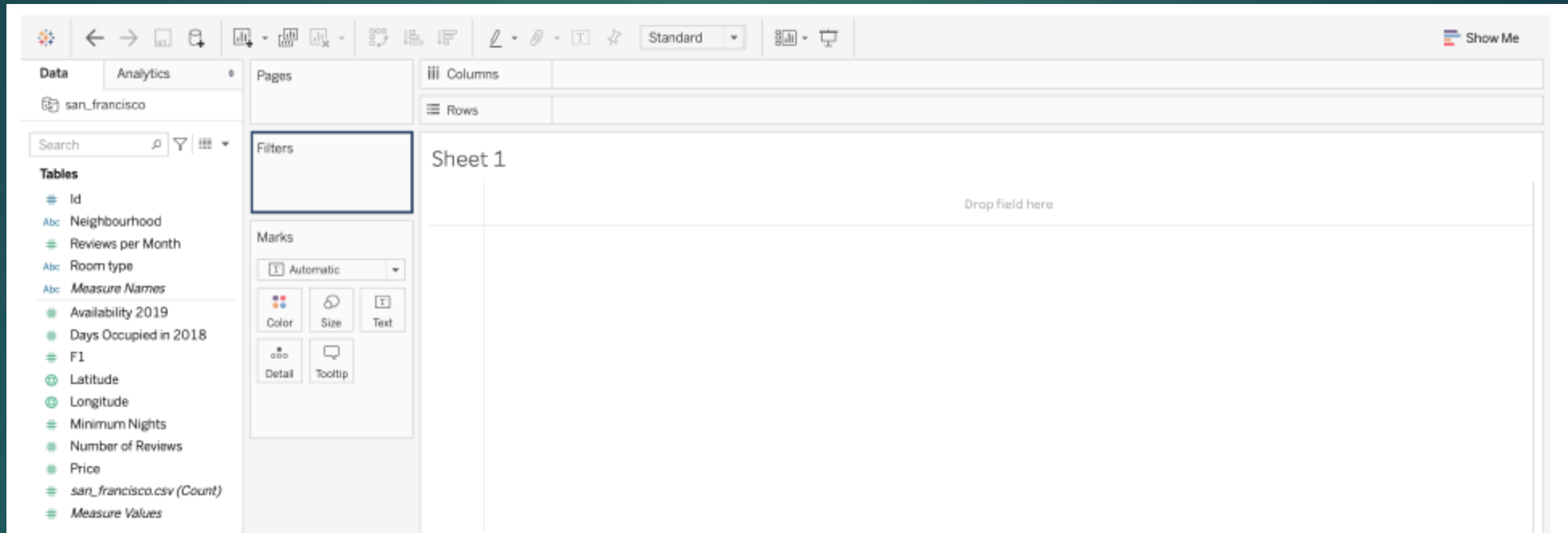
Rows



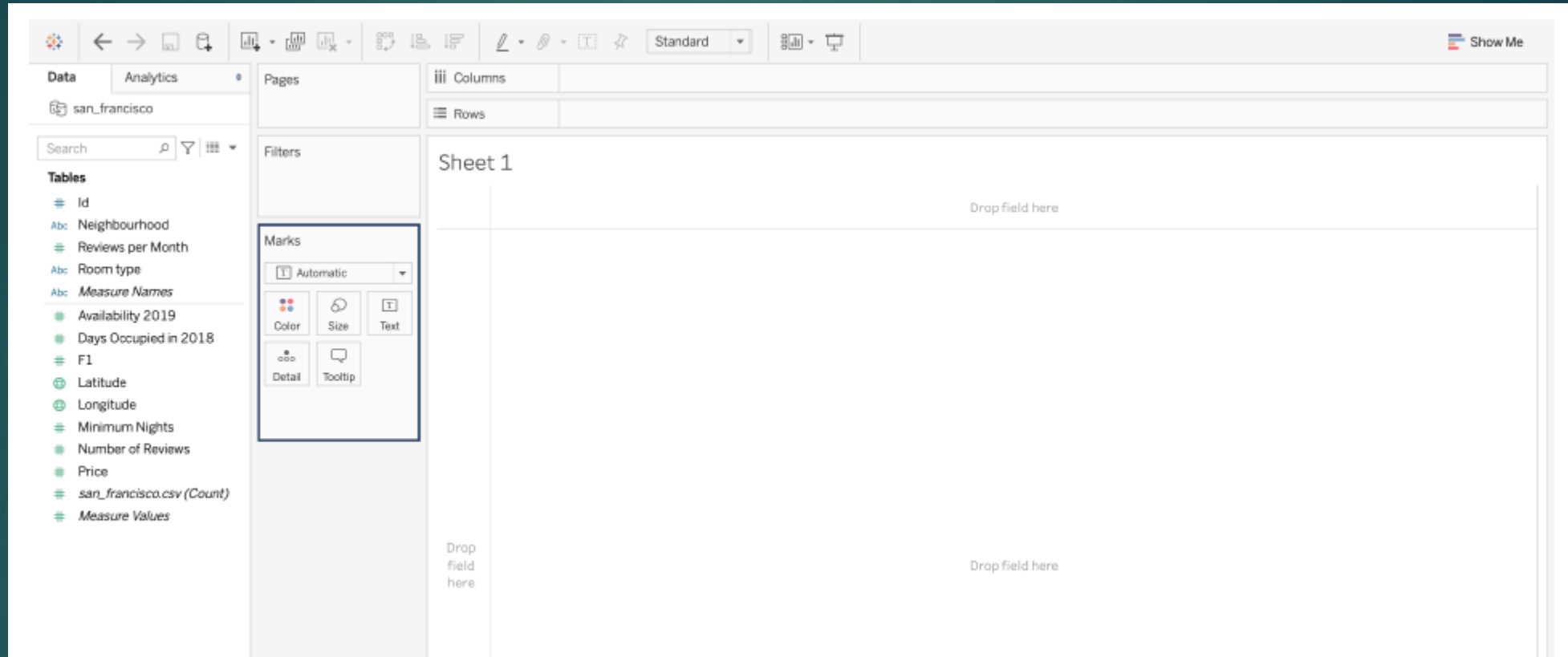
Pages



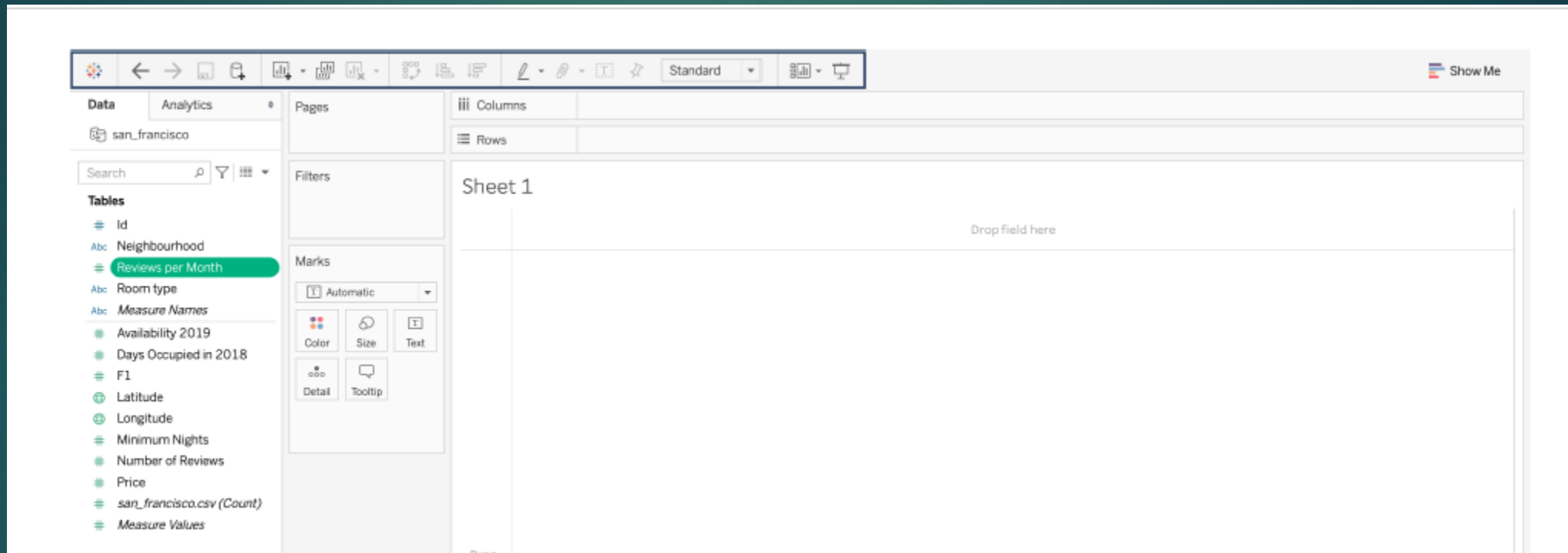
Filters



Marks



Toolbar



Question

Which neighborhood and room type has the highest price in New York?

Filters



Which neighborhood and room type has the highest price in New York?