1. **Connect Tableau to AWS EMR Hadoop Hive. We will use "sacramento_real_estate_final" table for plotting all the graphs.**

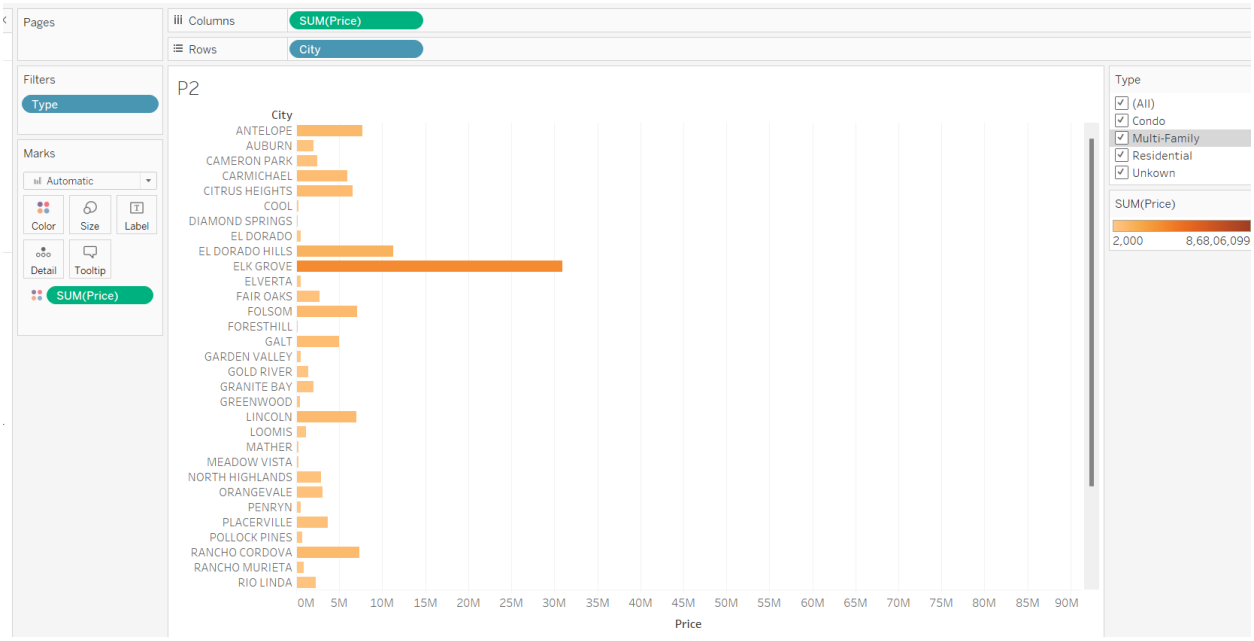
Sol)

Connection is really simple and straight forward once the Drivers are installed.
To connect Hive in Tableau: In Tableau, go to the Connect pane and select "Hadoop Hive" as the data source. Provide the necessary connection details:

- **Server**: Enter the hostname or IP address of the EMR cluster's master node.
- **Port**: Specify the Hive port, which is typically 10000.
- **Hive Server Type**: Choose the appropriate Hive server type
- **Authentication**: If authentication is enabled on your EMR cluster, select the appropriate authentication method and provide the necessary credentials.

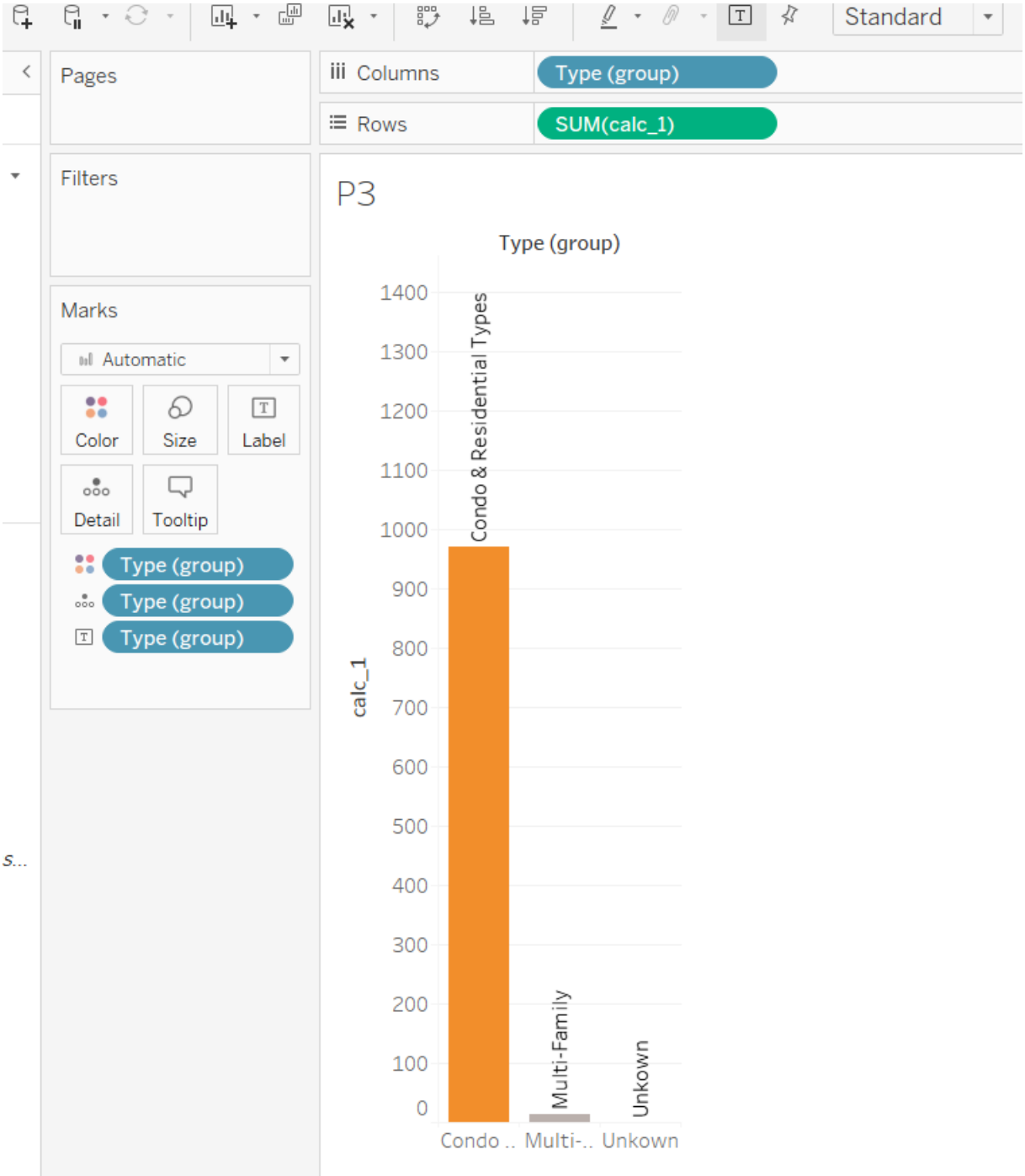
2. **Plot a graph showing bar chart of the sum of prices, and the line chart of the sum of sq__ft with respect to city. The graph should have a filter for house type.**

Sol)



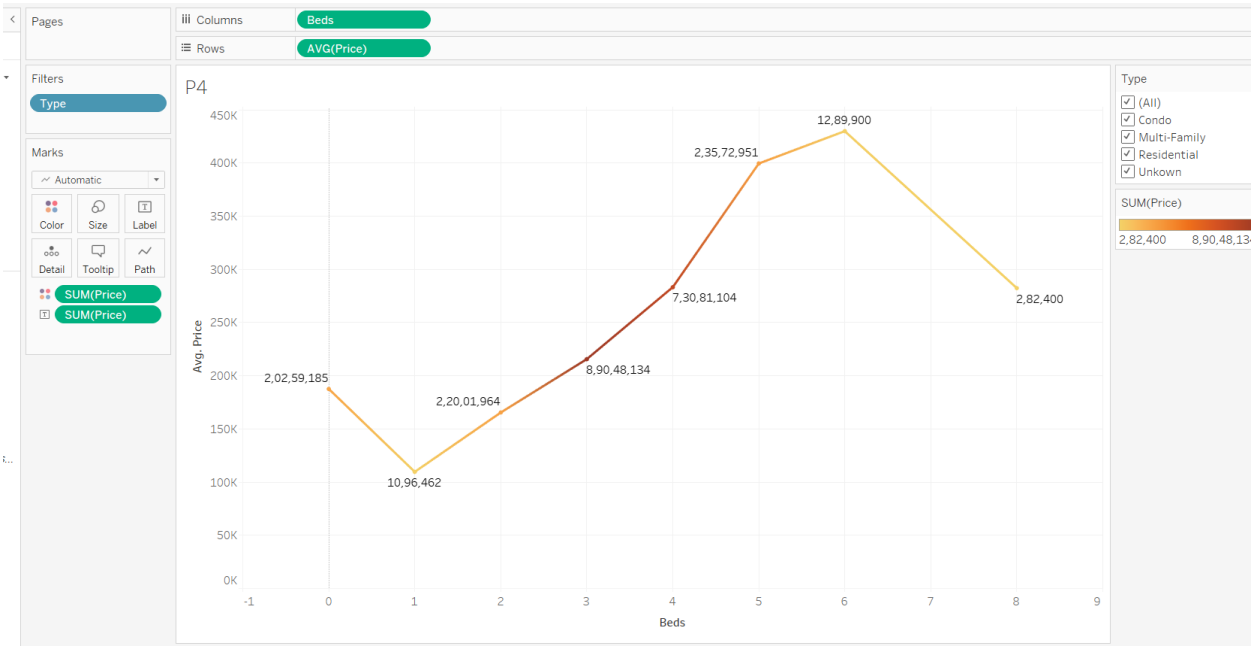
3. **Plot a graph showing number of residential and condo houses in each city. You can use any chart of your choice for this purpose.**

Sol)



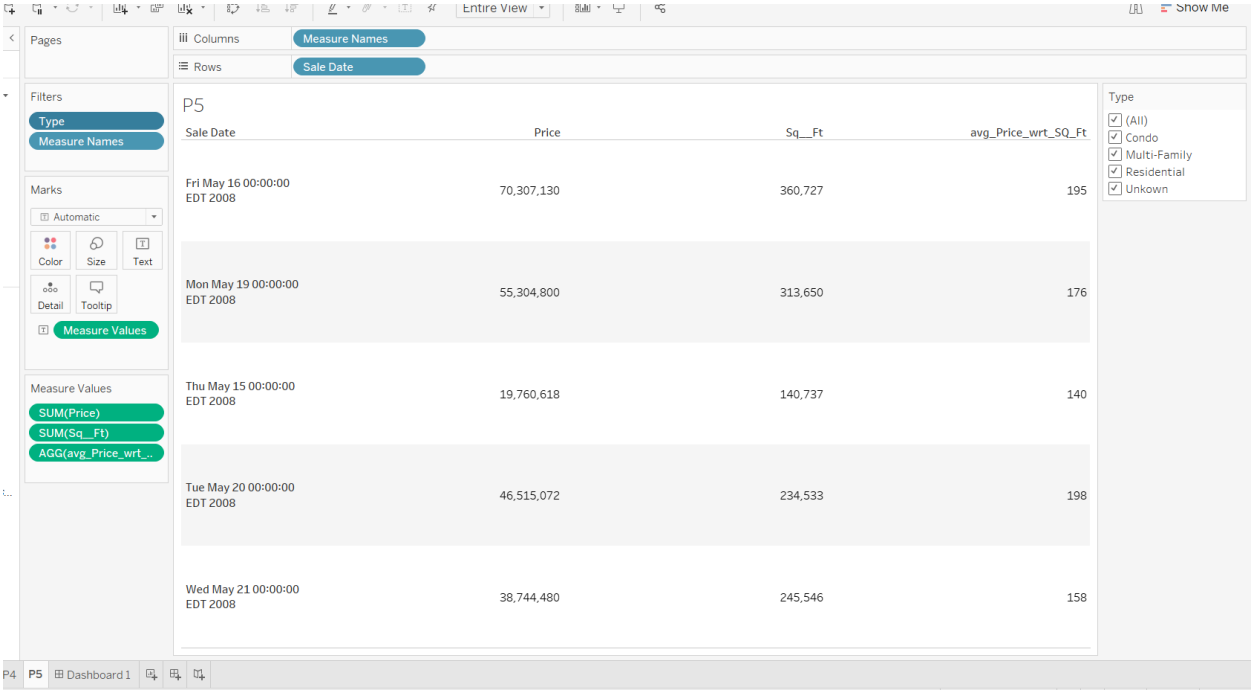
4. **Plot a graph with line chart showing the sum price of the houses based on the number of beds in the house. The graph should have a filter for house type.**

Sol)



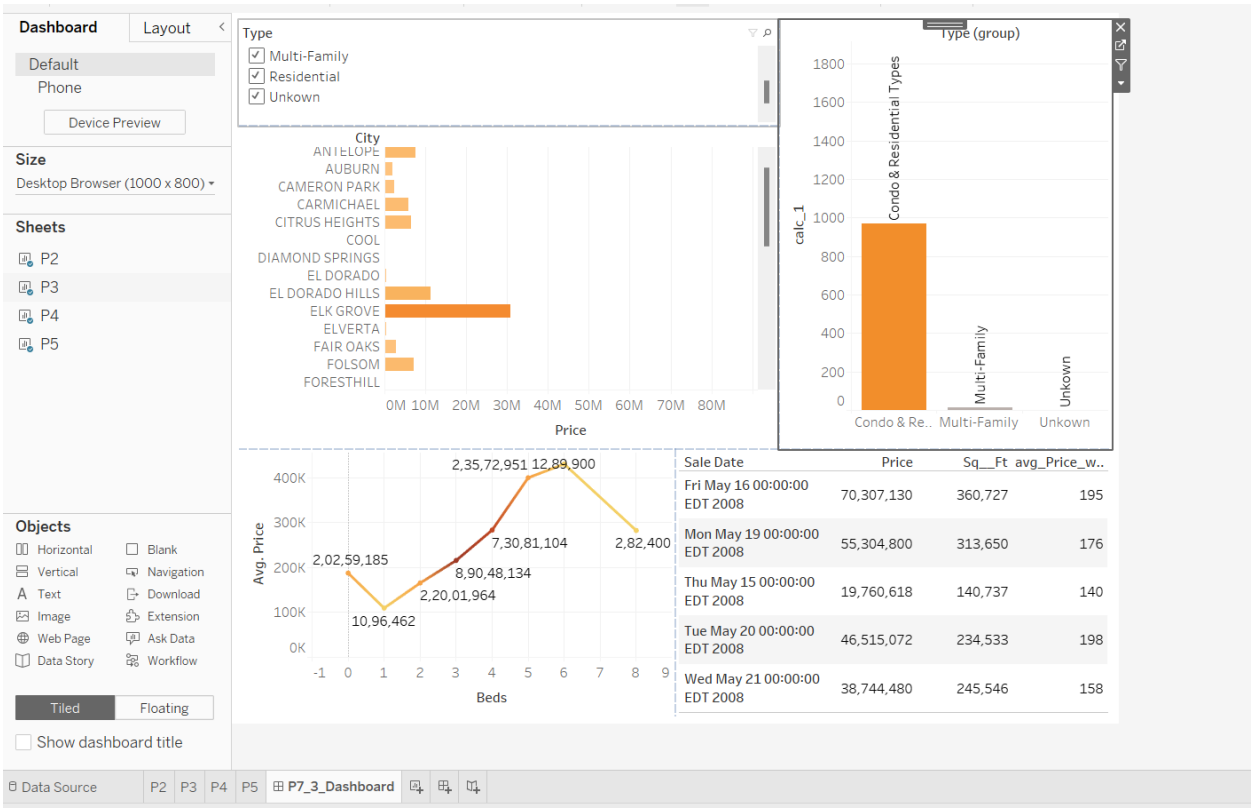
5. **Plot a tabular depiction showing the following information: For each date, the sum of prices and the sum of sq__ft sold across each city, and also a calculated column showing the average price per sq__ft. The graph should have a filter for house type.**

Sol)



6. **Create a dashboard with the title: “Sacramento Real Estate Sales”, and plot all the four graphs in this dashboard in a tiled format with appropriate spacing between the graphs.**

Sol)


Dashboard
Layout
Default
Phone
Device Preview
Size
Desktop Browser (1000 x 800)
Sheets
P2
P3
P4
P5
Objects
Horizontal
Blank
Vertical
Navigation
Text
Download
Image
Extension
Web Page
Ask Data
Data Story
Workflow
Tiled
Floating
Show dashboard title
Type
Multi-Family
Residential
Unkown
City
ANTELOPE
AUBURN
CAMERON PARK
CARMICHAEL
CITRUS HEIGHTS
COOL
DIAMOND SPRINGS
EL DORADO
EL DORADO HILLS
ELK GROVE
ELVERTA
FAIR OAKS
FOLSOM
FORESTHILL
0M 10M 20M 30M 40M 50M 60M 70M 80M
Price
Type (group)
calc_1
Condo & Residential Types
Multi-Family
Unkown
Condo & Re..
Avg. Price
2,35,72,951
12,89,900
2,82,400
7,30,81,104
2,02,59,185
8,90,48,134
2,20,01,964
10,96,462
Beds
Sale Date
Price
Sq__Ft
avg_Price_w..
Fri May 16 00:00:00 EDT 2008
70,307,130
360,727
195
Mon May 19 00:00:00 EDT 2008
55,304,800
313,650
176
Thu May 15 00:00:00 EDT 2008
19,760,618
140,737
140
Tue May 20 00:00:00 EDT 2008
46,515,072
234,533
198
Wed May 21 00:00:00 EDT 2008
38,744,480
245,546
158
Data Source
P2
P3
P4
P5
P7_3_Dashboard