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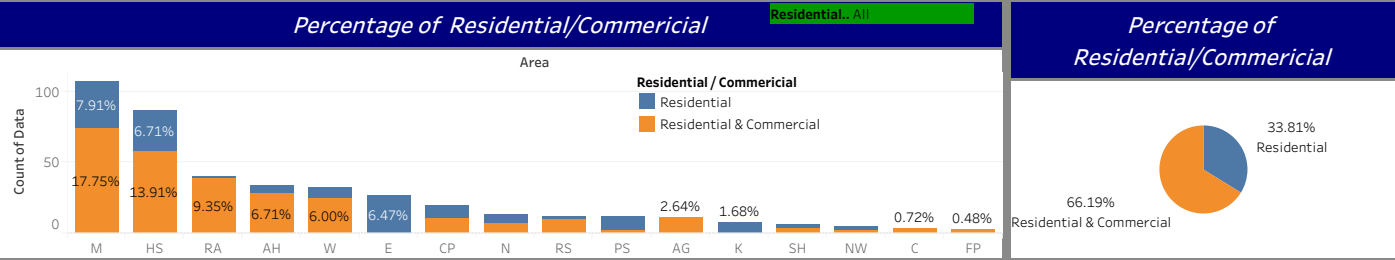
Data Visulization Problem Statement

Consider that you are a Lead Data Analyst at a Real Estate company in Boston that has provided you with the House Pricing dataset. You have been given a task to explore the data, create different plots and interpret useful insights/findings. Your end goal here will be to create a storyboard that you have to present to the Senior Management and the story has to have an end objective and should follow a logical flow to display that you are heading towards achieving the end objective. This will help the Senior Management in taking some decisive actions on the current House Recommendation System in place. This storyboard will be an open-ended story for you to explore various different features in the data and try to showcase different plots. Make sure to have minimum clutter in the plots, follow a consistent color scheme across all the plots, and use proper colors to highlight a specific insight. Moreover, your plots on all the dashboards should be interactive and responsive. There should be 1 dashboard that should cover the summary of the story as well as your recommend..

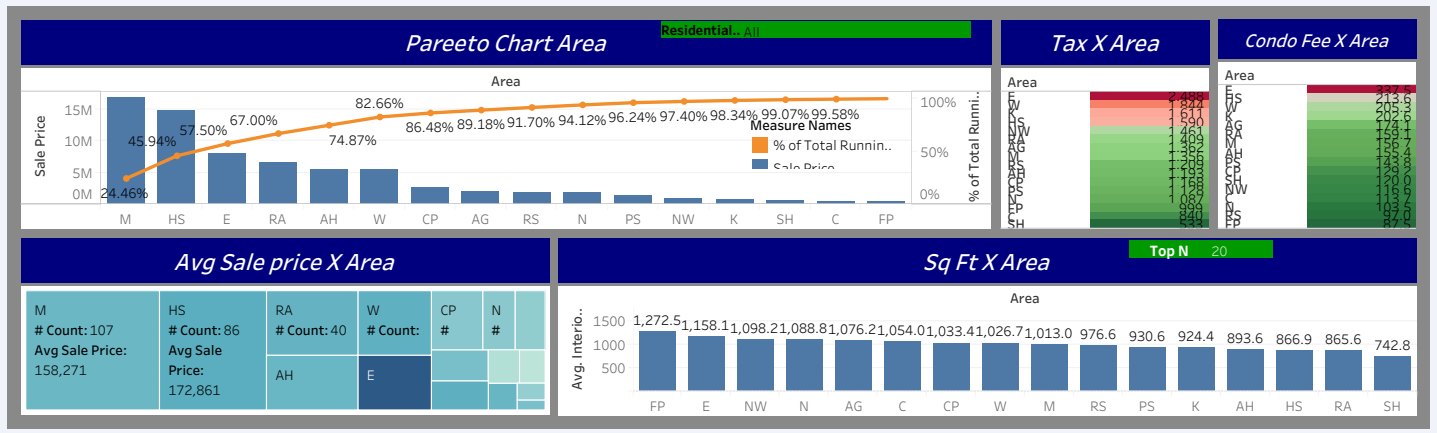


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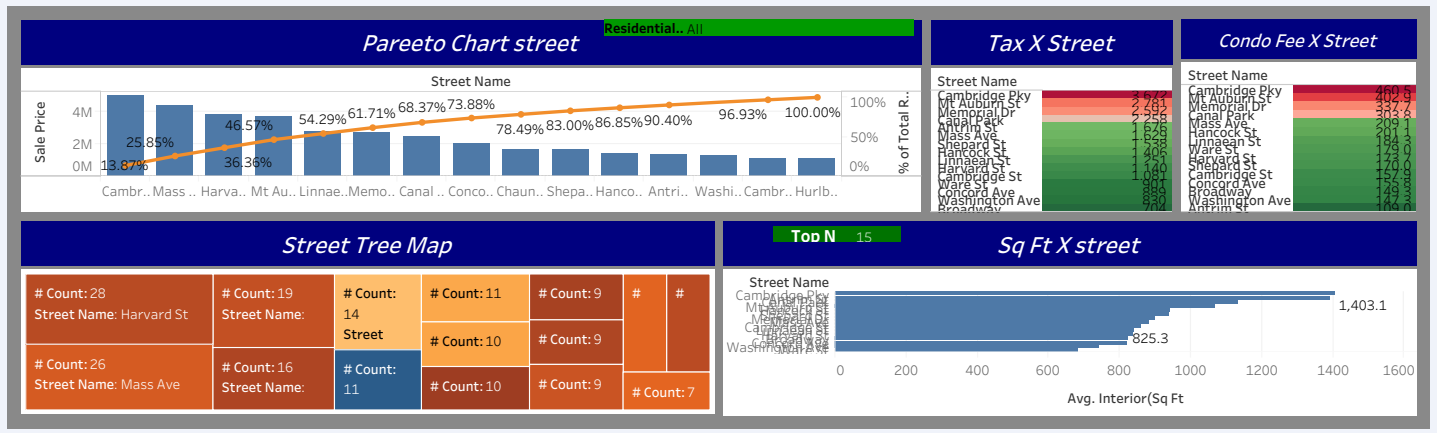
Data Count	Average Sale Price	Average Tax Amount	Average Interior Sq Ft	Average Condo Fee
417	\$166.00K	\$1,47K	968.22 sq. ft	\$178.51



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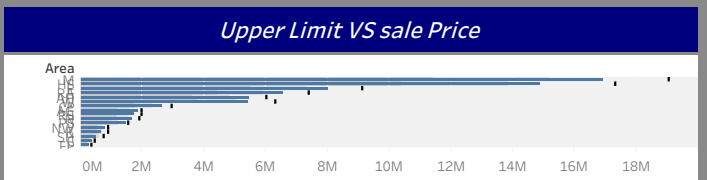
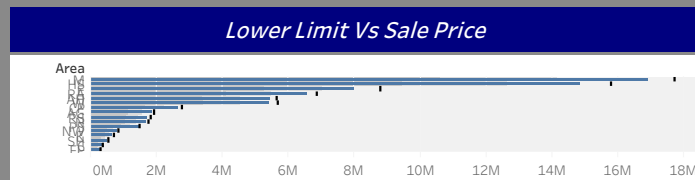
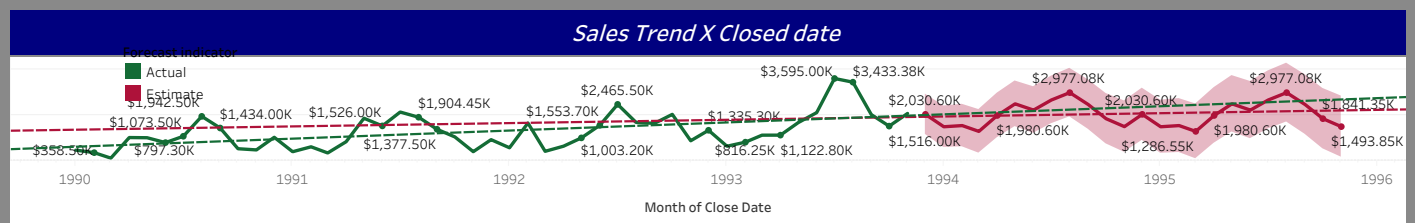


The figure consists of six scatter plots arranged in a 2x3 grid, comparing Residential (orange circles) and Commercial (blue circles) properties. The plots show the following relationships:

- Sale Price X Tax:** Tax (Y-axis, 0K to 4K) vs. Sale Price (X-axis, 0K to 300K). Both property types show a positive correlation, with Commercial properties generally having higher sale prices and taxes.
- Sale Price X Condo Fee:** Condo Fee (Y-axis, 0 to 400) vs. Sale Price (X-axis, 0K to 300K). Commercial properties (blue) show a wider range of condo fees, often exceeding 200, while Residential properties (orange) are mostly below 200.
- Sale Price X Sq Ft:** Sale Price (Y-axis, 100K to 300K) vs. Interior (Sq Ft) (X-axis, 0 to 1000+). Both property types show a positive correlation, with Commercial properties generally having higher sale prices and interior areas.
- Tax X Condo Fee:** Condo Fee (Y-axis, 0 to 400) vs. Tax (X-axis, 0 to 3500). Commercial properties (blue) tend to have higher taxes and higher condo fees compared to Residential properties (orange).
- Tax X Sq Ft:** Interior (Sq Ft) (Y-axis, 0 to 1000+) vs. Tax (X-axis, 0 to 1500+). Commercial properties (blue) generally have higher taxes and larger interior areas.
- Condo Fee X Sq Ft:** Interior (Sq Ft) (Y-axis, 0 to 1000+) vs. Condo Fee (X-axis, 0 to 400). Commercial properties (blue) show a wider range of both interior area and condo fees.

A legend in the bottom-right plot indicates that orange circles represent Residential properties and blue circles represent Commercial properties.

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Summary:

- 1. The Number of homes listed in this dataset is 417
- 2. The average sale price of home in Boston is around \$166K
- 3. The average tax for the home caters to around \$1.47K
- 4. Approximately 1000 Sq. Ft or 968.2 Sq. Ft is the average interior Sq. Ft.
- 5. The Condo Fee is averaging around \$178.5 for all the homes across Boston.
- 6. Most of the homes in Boston are used both as residential and commercial activities
- 7. Area M and HS has the highest number of homes.
- 8. Street Wise Harvard St and Mass Ave Street has the highest number of homes.
- 9. Cambridge Pky has the highest average interior Sq. Ft and contributes the most in the total number of sales.
- 10. From sales trend forecast that sale has a positive trend in long term.

Insights:

- 1. Out of 16 areas, two areas contribute to approx. 50% of the sales and those two areas are Areas M and HS
- 2. Area E has a purely Residential homes and has the highest average sale price.
- 3. The Residential home draws comparatively the highest Tax and Condo Fee when compared to homes used for both residential and commercial activities.
- 4. From the total number of streets, the top 15 streets contribute towards 53% of the total sales.
- 5. Cambridge Pky is purely residential homes and has highest average Interior sq Ft homes.
- 6. From the below charts we can see that Sale Price, Condo Fee, Tax and Sq. Ft have positive correlation amongst them.
- 7. The average sale price of the homes in the area is below both the first price and the last price. ...

Recommendations:

- 1. For Residential and commercial homes, the company can buy homes in area M and HS with respect to the total amount sales that it has produced.
- 2. For purely a residential Area, area E is recommended. And Area Hs is also a good option but this area also has commercial houses as well.
- 3. The top 15 street with respect to the total sum of sales is recommended
- 4. And Cambridge Pky is recommended for purely residential homes
- 5. It is recommended to buy more homes with residential and commercial permits as it has its own benefits of lesser tax and condo fee which can be very good strategy to attract customers also it contributes majority of the sales.
- 6. The real estate company is recommended to buy home in the month of March and November as we can see a price drop patterns and sell properties in the month of August.
- 7. During the buying of the homes, it is observed that the actual sale price of homes come down very from the last pri..