

# CAPSTONE PROJECT – 1

## San Francisco Building Permits

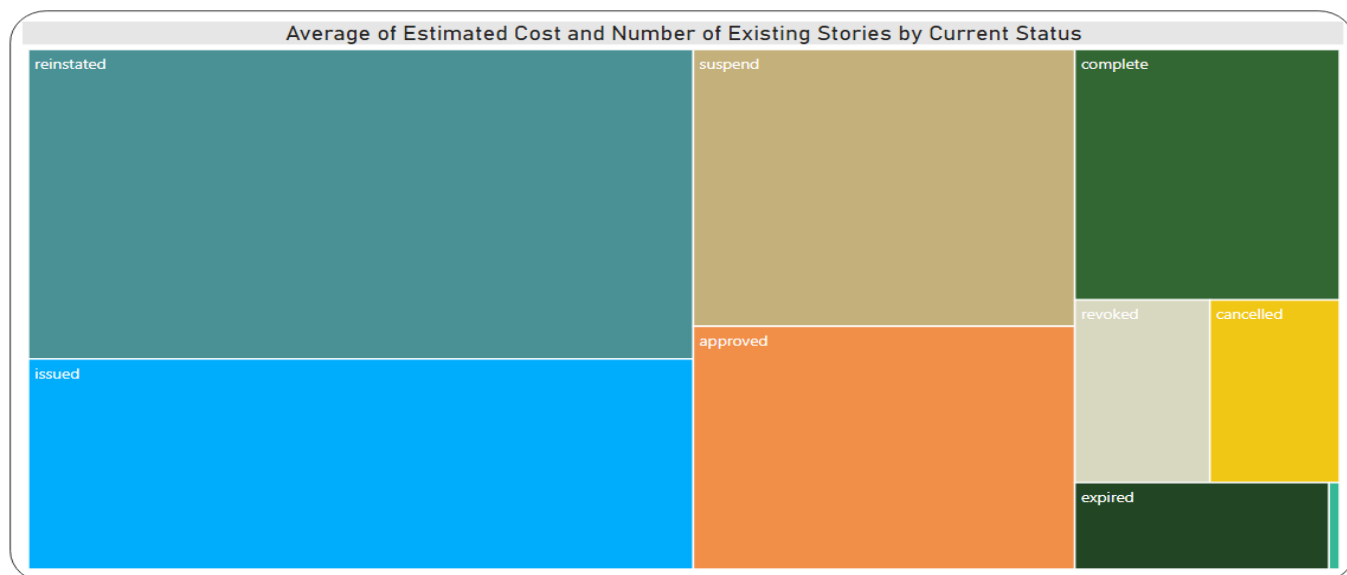
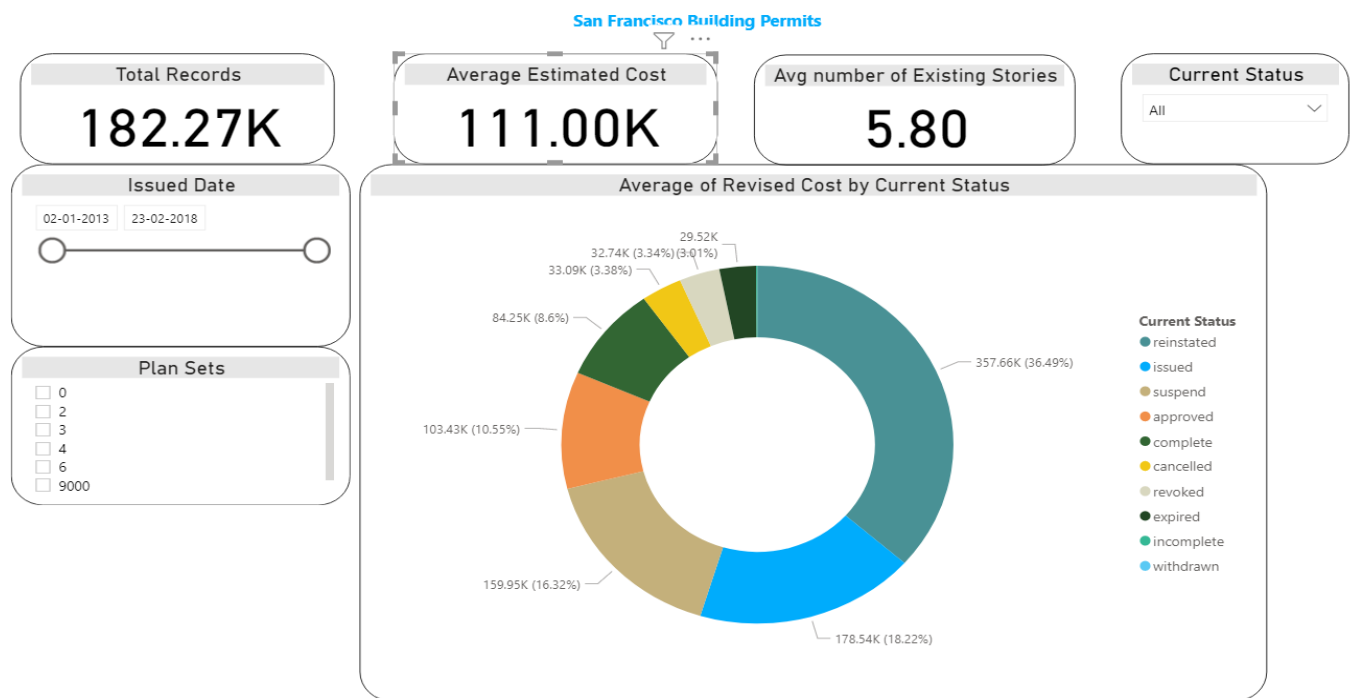
### **Project Description**

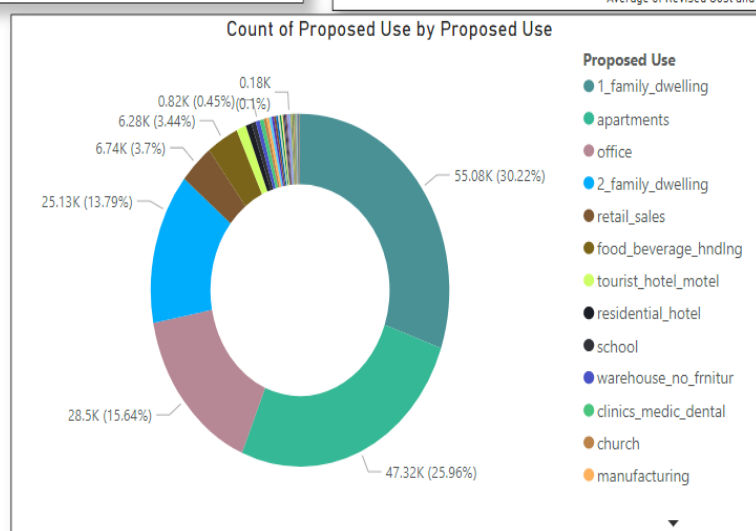
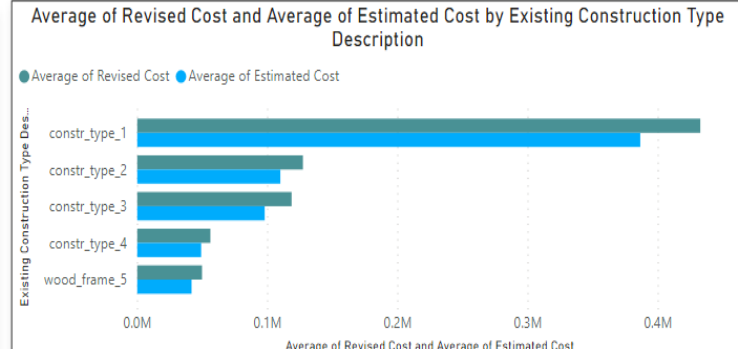
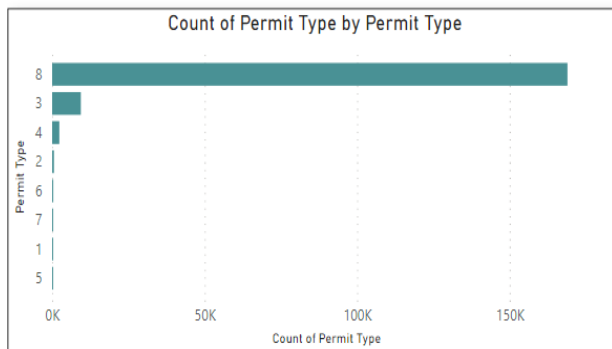
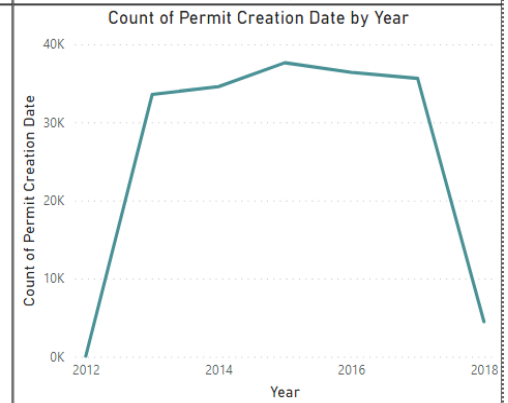
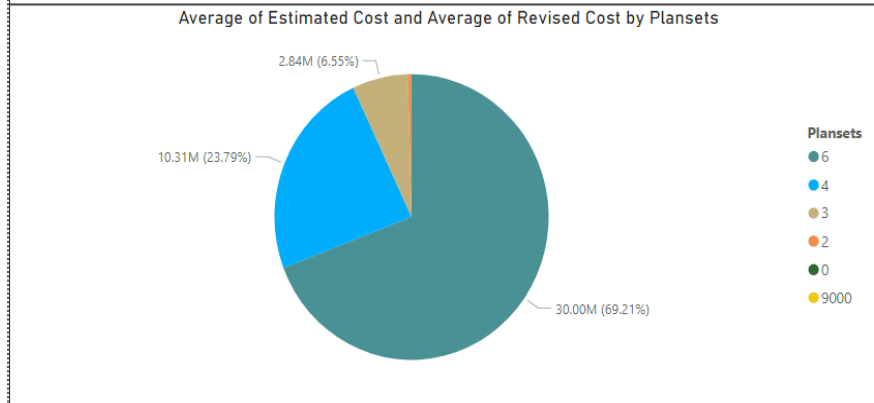
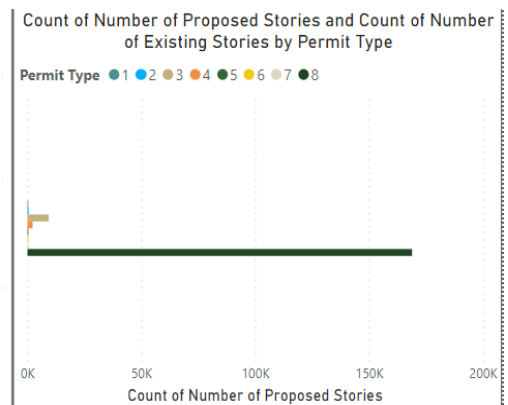
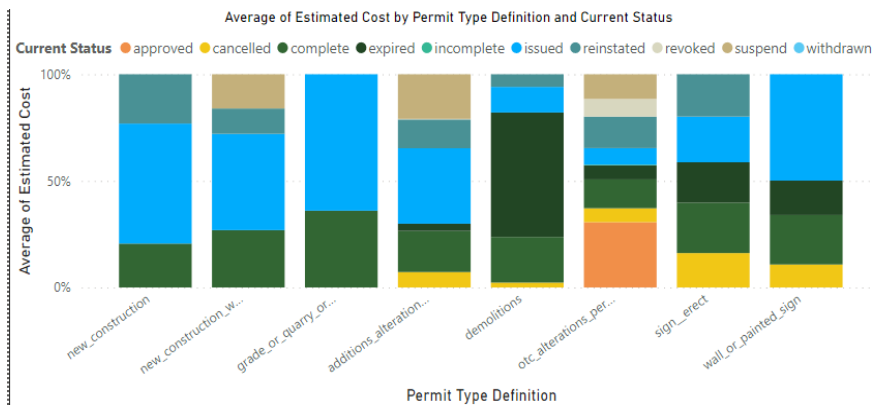
A building permit is an official approval document issued by a governmental agency that allows you or your contractor to proceed with a construction or remodelling project on one's property.

Each city or county has its own office related to buildings, that can-do multiple functions like issuing permits, inspecting buildings to enforce safety measures, modifying rules to accommodate needs of the growing population etc. There are 43 columns and close to 200k records in the dataset.

Before diving into data analysis, there were many null values to handle. The analysis of this data is done after pre-processing it. Due to this there might be loss of some information.

Now let us dive into analysis of this dataset.





### **Insights**

1. There is a significance rise of average Revised cost compared to average estimated cost in all types of existing construction type description.
2. There are total of 182.27k records after pre-processing.
3. The average estimated cost is 111.0K.
4. The most common Permit Type is OTC Alteration.
5. The 'Issued' status and 'Reinstated' status has the majority of the average revised cost out of all.
6. Planset 2 has the highest average estimated cost consisting of 103.96K records.
7. Permit type 8 has the highest number of existing and proposed stories.
8. The year 2015 had the highest number of permit creation.
9. Construction type 1 has the highest average revised cost and estimated cost.
10. 1 family dwelling and apartments has the majority counts in Proposed use.