

Housing data Analysis

Additional Information:

Longitude: It measures a longitude of houses in west region.

Latitude: It measures a latitude of houses in north region.

Total bedroom: Total No. of Bedroom within a Area.

Total Room: Total No. of room within a Area.

Median Age: Median age specifies the Age of Houses, a higher value is older Building or house.

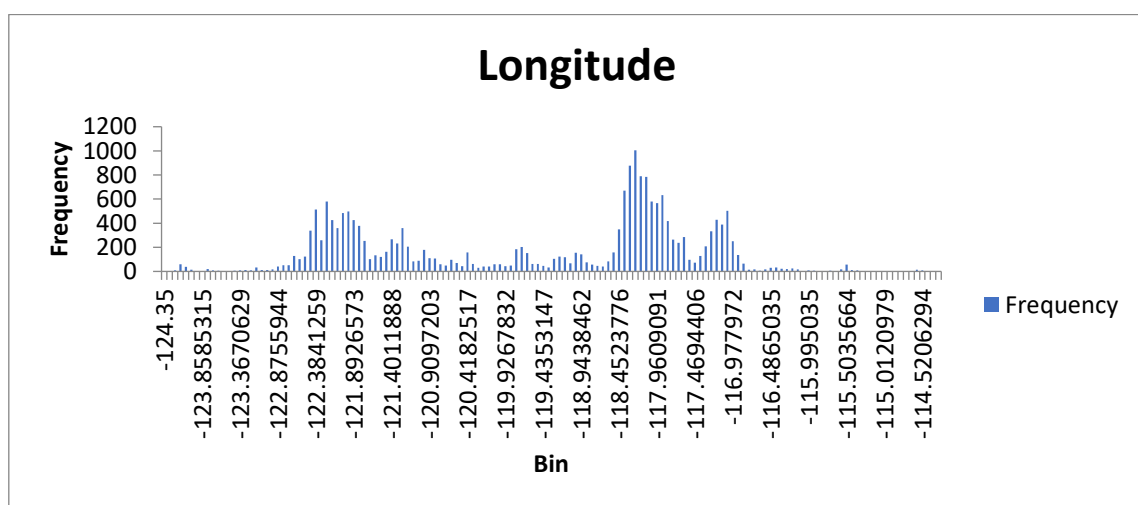
households: Total number of households, a group of people residing within a home unit.

ocean: Location of the house w.r.t ocean/sea.

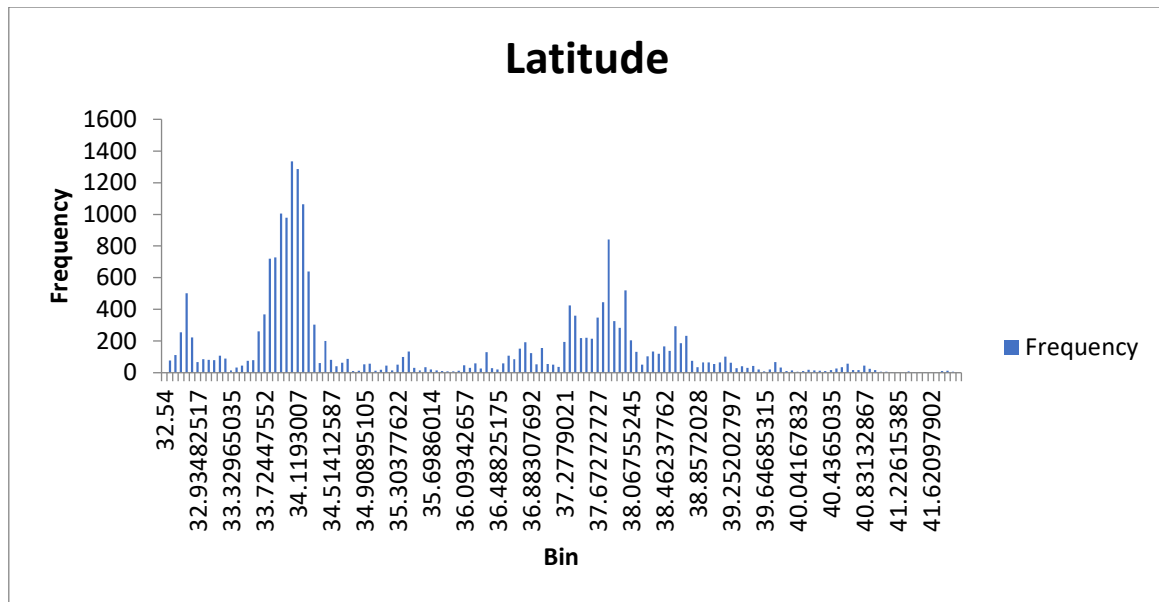
Population: Total No. of People residing in the Area.

House value: Median house value for households.

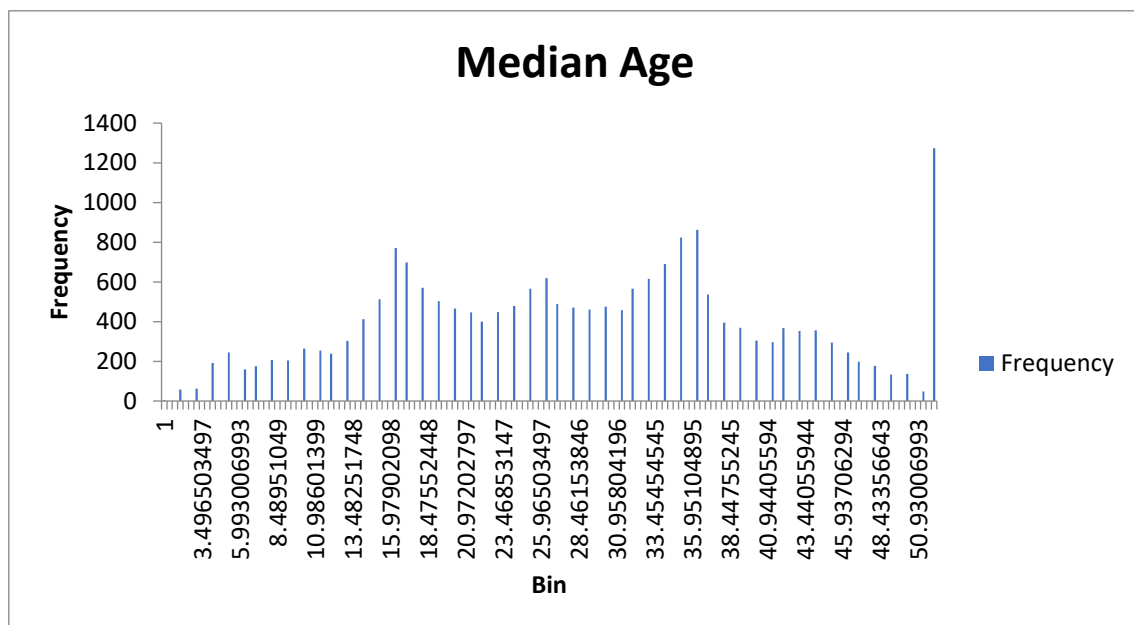
Please find the Histogram of all data below with respective observation below each plot.



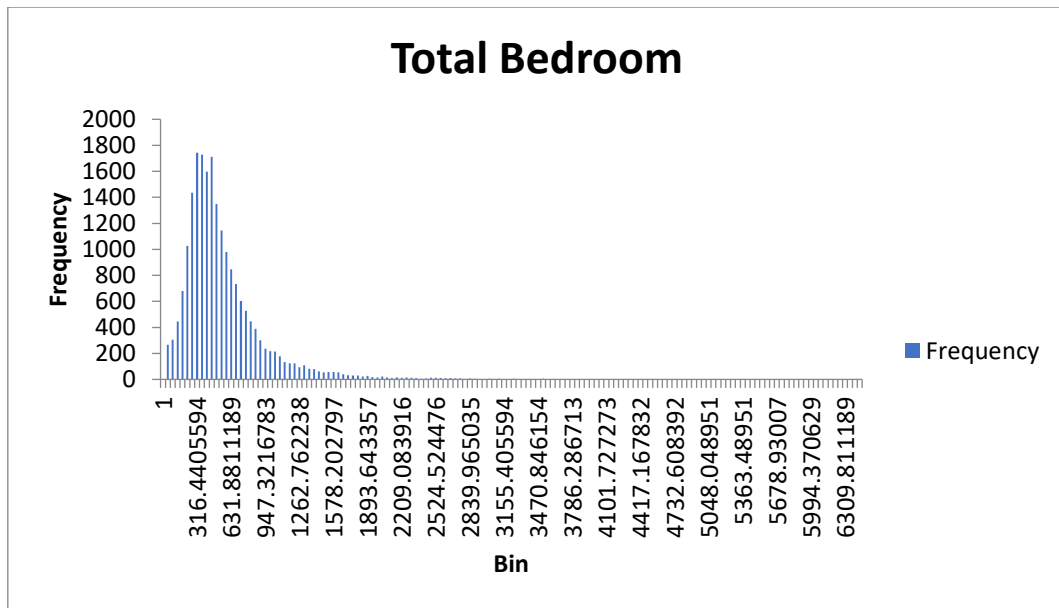
Most of the houses are located in the west region with the longitude of -118.17.



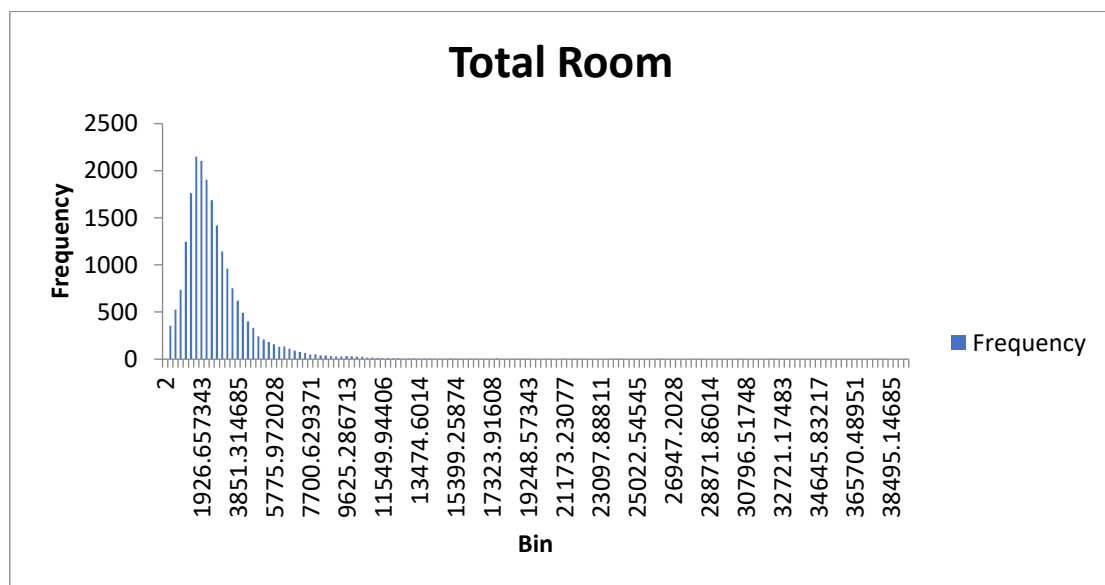
Many houses are located in the north region with the highest frequency of 34.11.



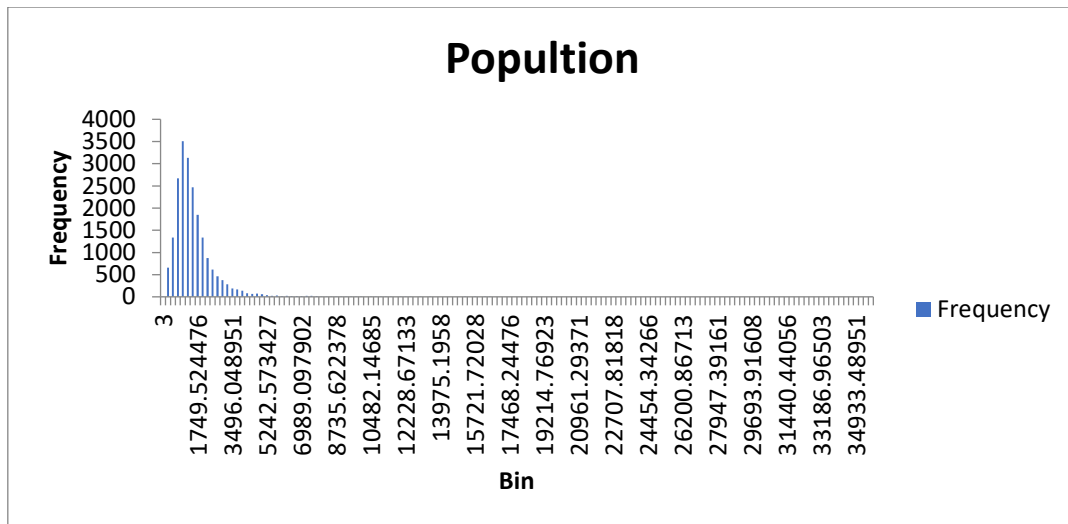
The average house age, the distribution is more or less uniform. Which shows there is no extreme difference in age of the population.



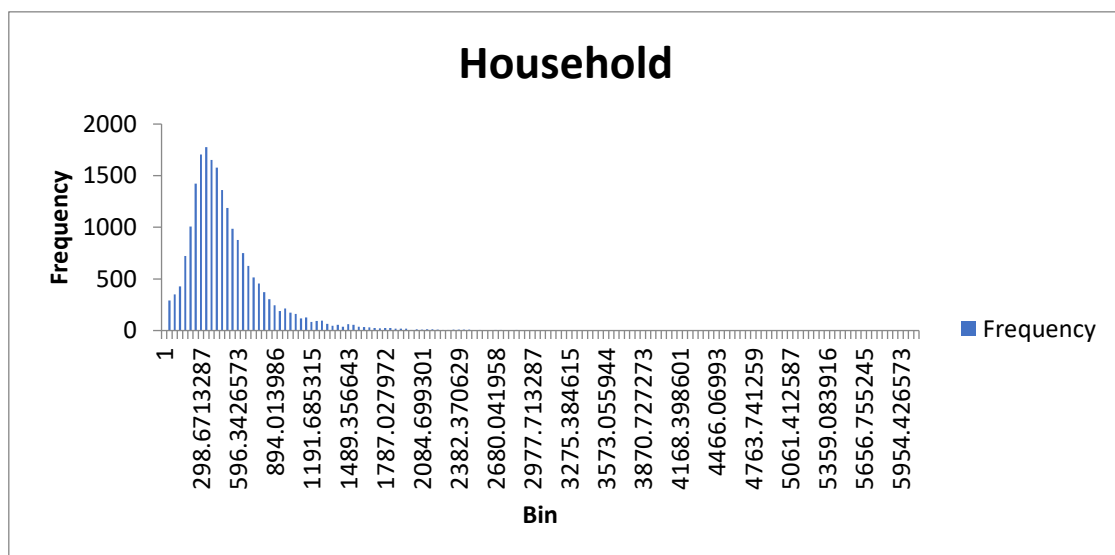
The distribution is long tailed, most of the area has total bedroom fall from 300 to 1000.



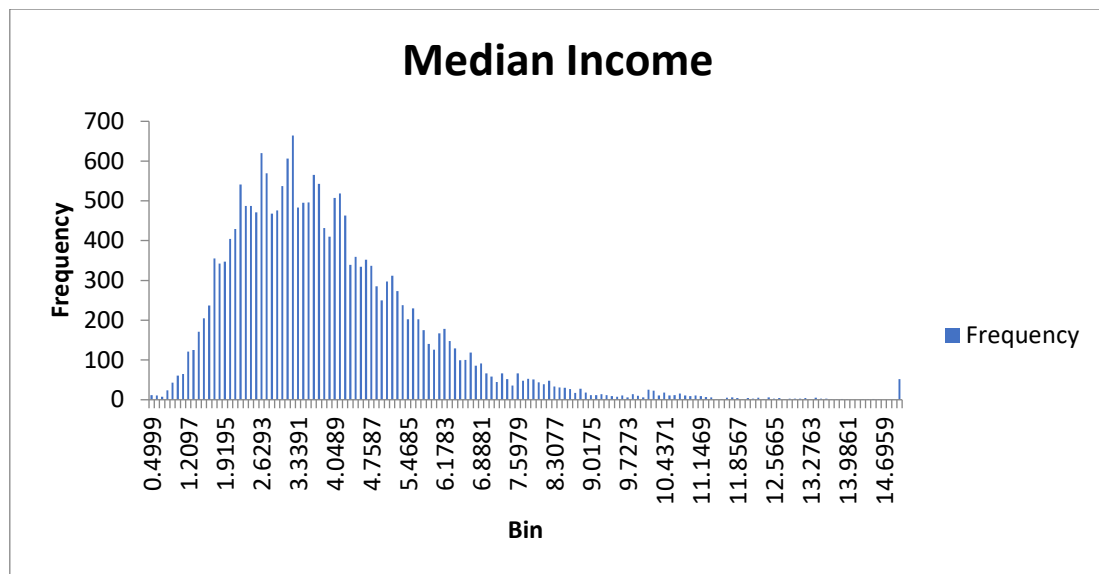
The distribution is long tailed, so there could be some outlier. Around 2200 is the most common no. of total room can be seen in almost area.



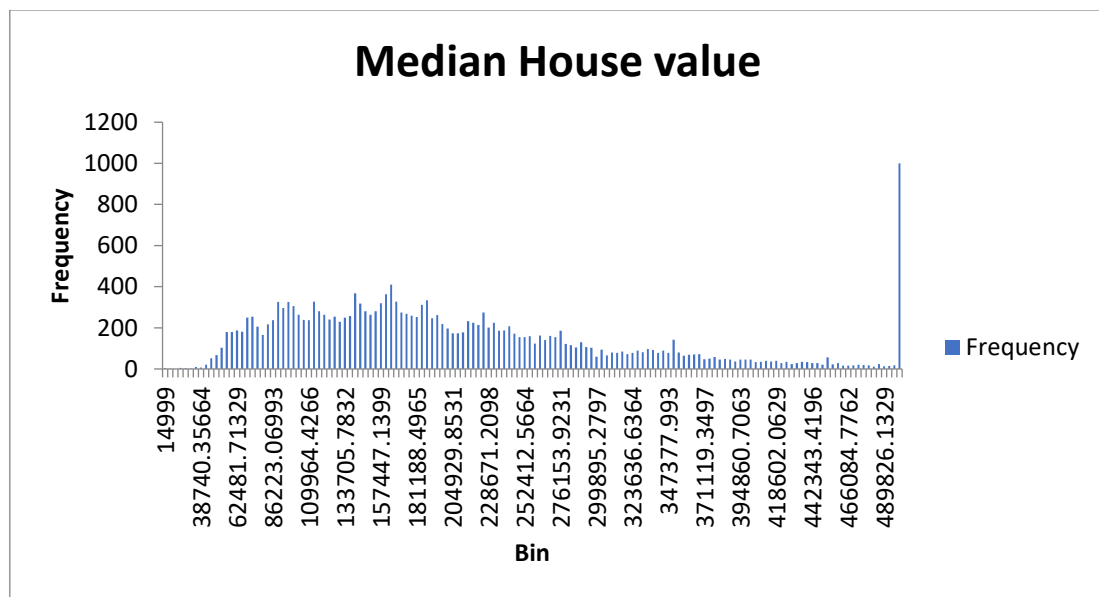
The distribution is positively skewed, mostly around 1900 of population can be found in the many area.



The household distribution is positively skewed, where around 290 is the common no. of household to see in the area and very few area has households of around 5954.



The median income is a distribution with a long tail. It means that the salary of people is more or less normally distributed but there is some people getting a high salary.



The median house value is more or less uniform, very few house values are high.

Correlation									
	longitude	latitude	Age	Total Room	Bedroom	Population	Household	Income	House value
longitude	1.00								
latitude	0.74	1.00							
Age	-0.33	-0.32	1.00						
Total Room	0.09	0.10	-0.05	1.00					
Bedroom	0.14	0.13	-0.08	0.99	1.00				
Population	0.06	0.01	0.00	0.99	0.98	1.00			
Household	0.12	0.10	-0.07	1.00	1.00	0.99	1.00		
Income	-0.42	-0.28	0.19	-0.27	-0.33	-0.26	-0.31	1.00	
House value	0.10	0.16	-0.35	0.22	0.17	0.18	0.18	0.29	1.00

Total Room, Bedroom, Population & Household are extremely positively correlated. Which says that rooms are occupied according to the population.

Age and Household value is negatively correlated.

Population & Income are negatively correlated.

Population and Age are uncorrelation.

Note:

We been taught the Statistics in excel, so I have plot all the distribution in excel.