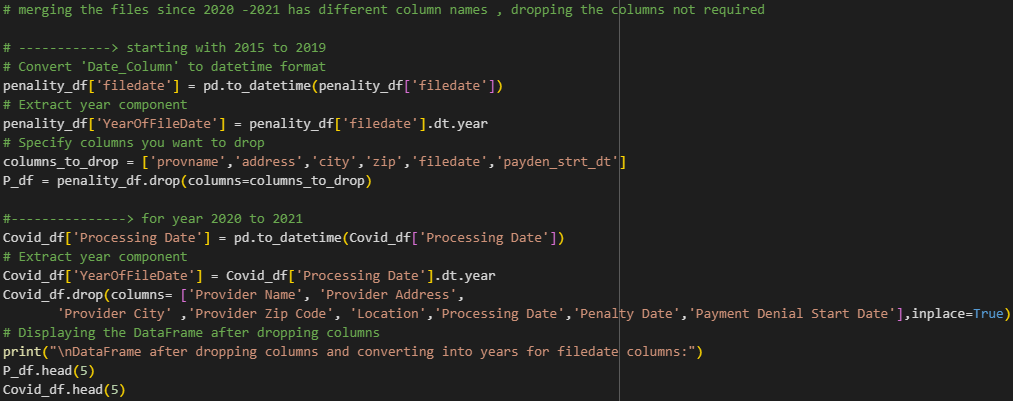
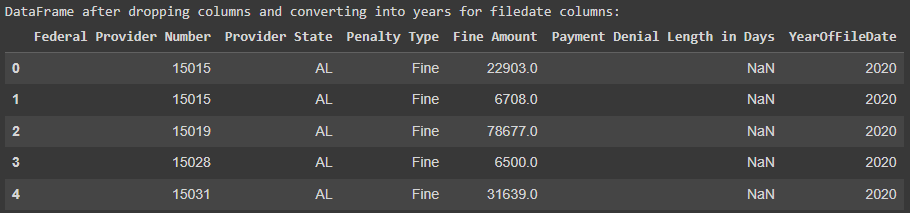
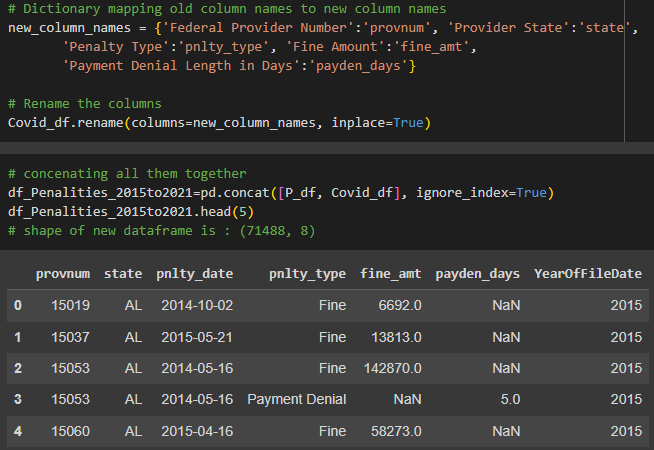
Code and Outputs

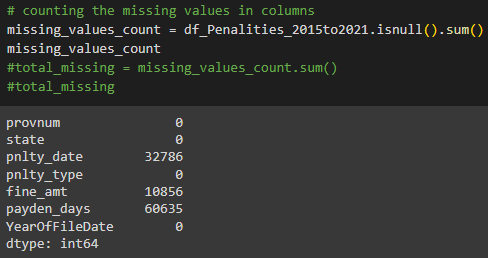
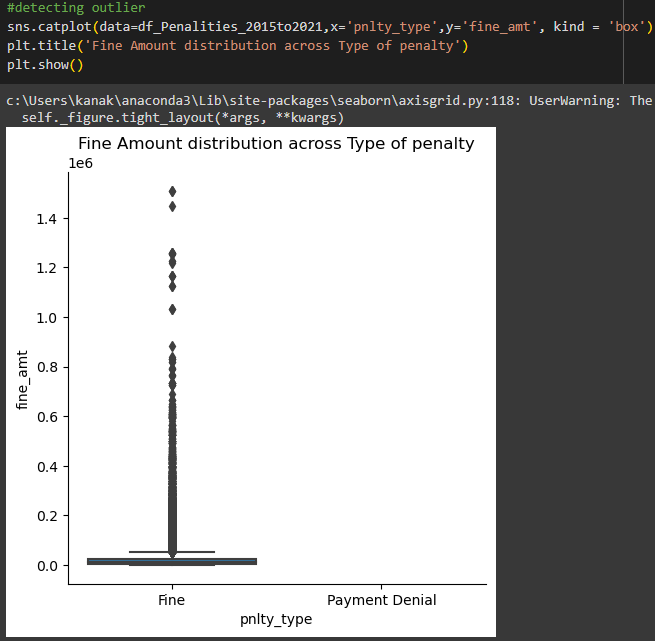
**[Data Cleaning]**

*Penalties*

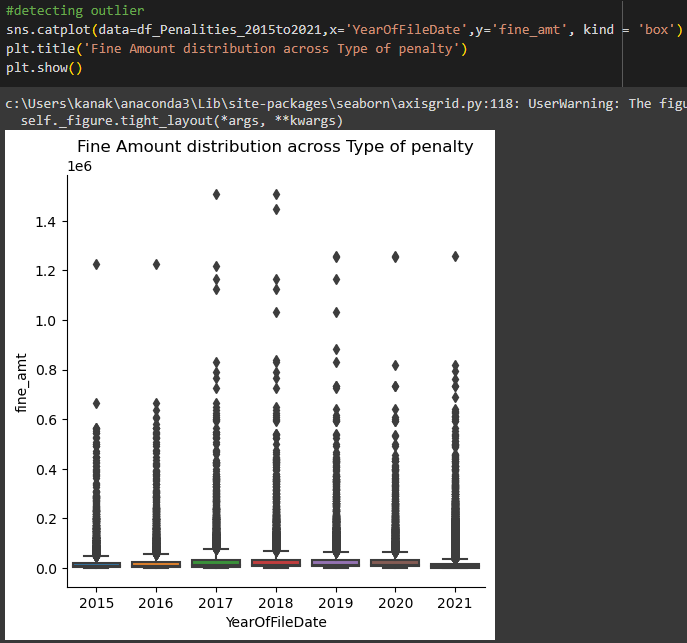
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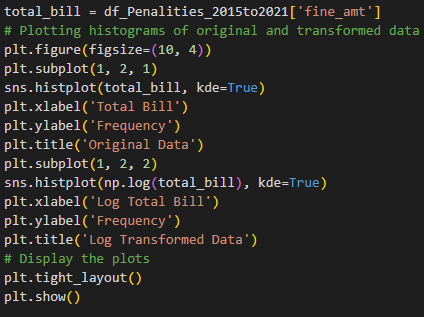
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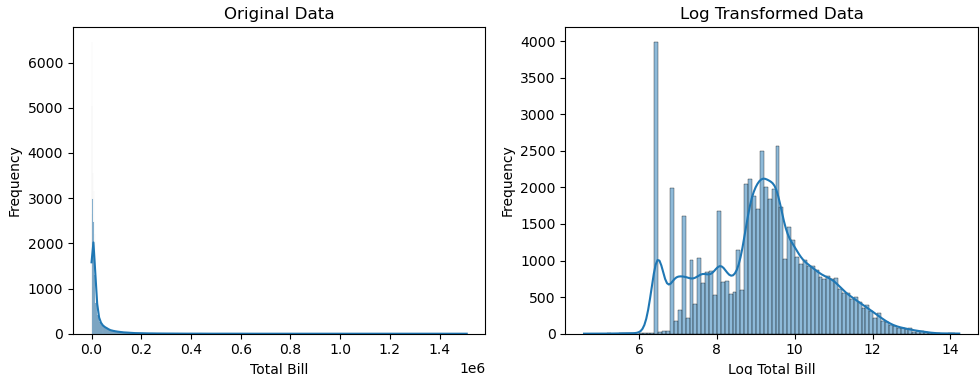
df\_Penalities\_2015to2021['fine\_amt'].fillna(df\_Penalities\_2015to2021['fine\_amt'].mean(), inplace=True) We should not run this line as we found fine amount is only exist null when we have payment denial so not good to replace them !

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Although there are many outlier, but i think fine amt gives exact picture of how well the nursing homes are : thus we are not using below code to remove outliers \_\_\_ from scipy.stats.mstats import winsorize winsorized\_values = winsorize(df\_Penalities\_2015to2021['fine\_amt'], limits=[0.03, 0.03])

---Replace original column 'A' with winsorized values--- df\_Penalities\_2015to2021['payden\_days'] = winsorized\_values



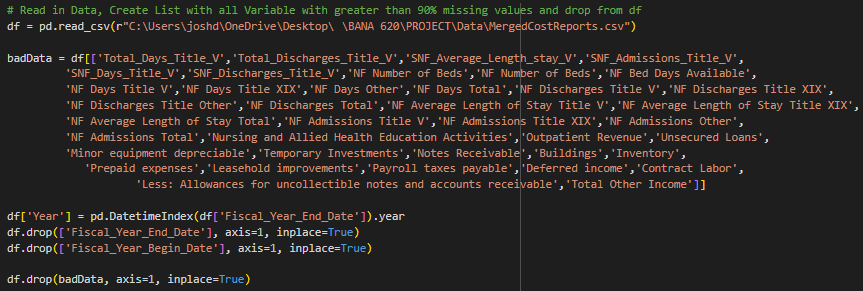


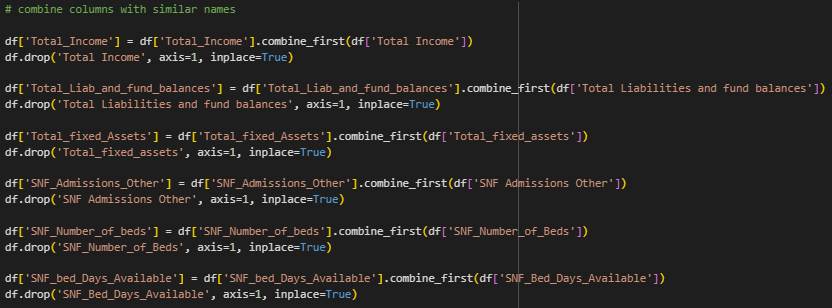
**Merged Cost Reports**

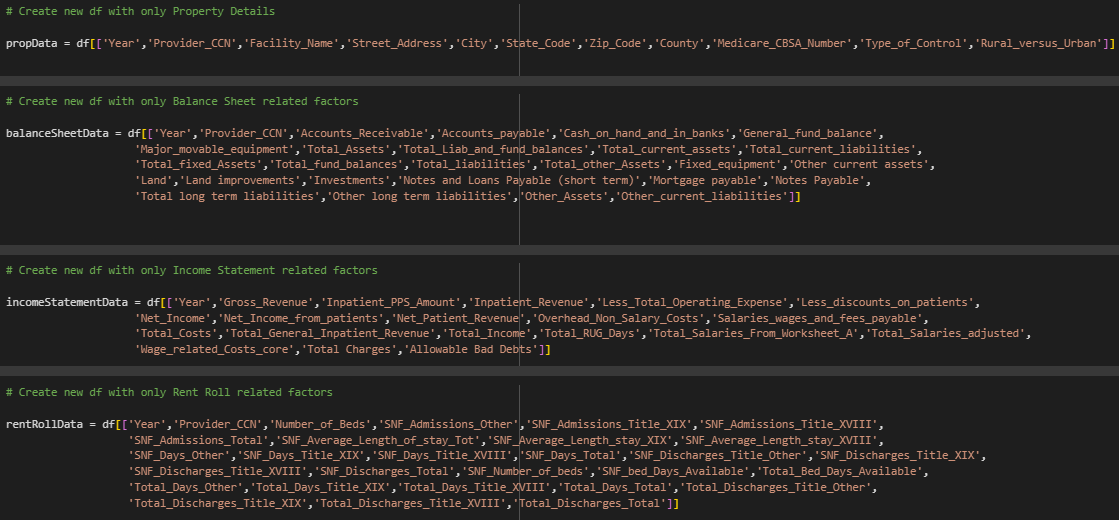




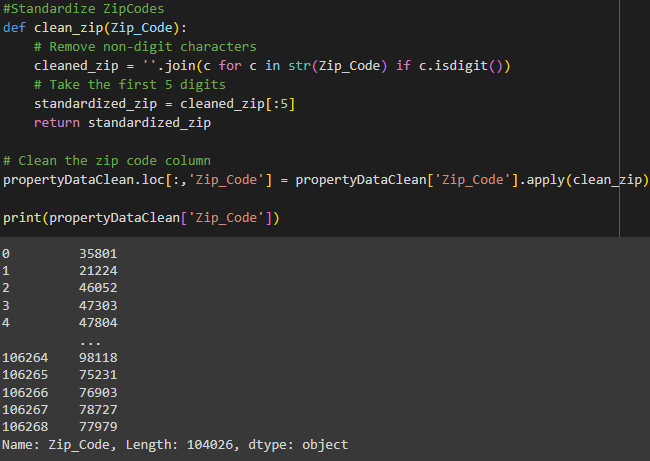
*IncomeStatement*

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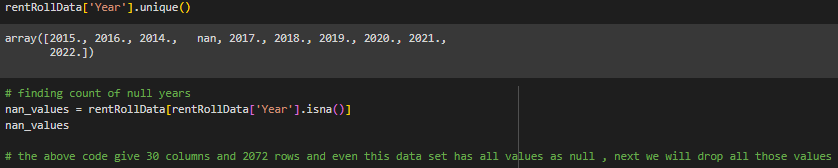


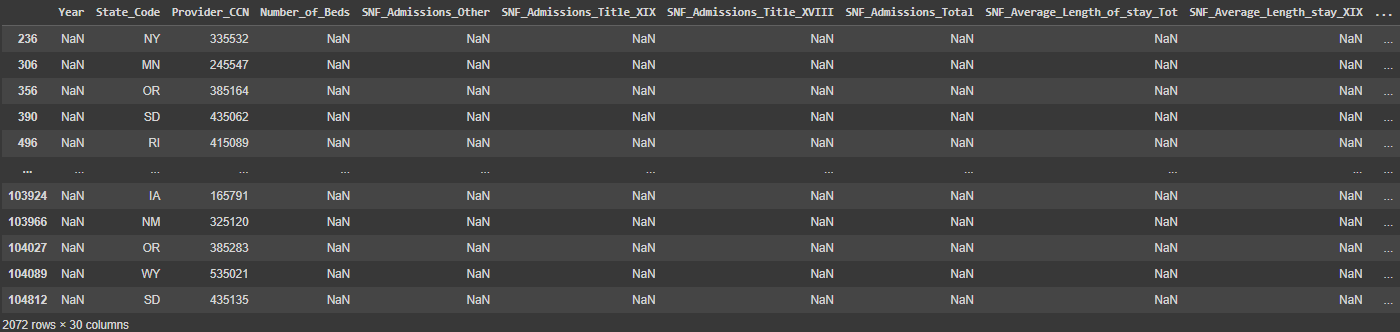


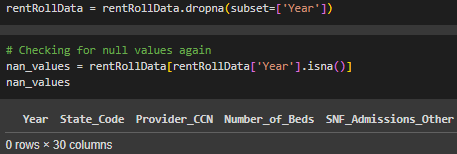
*Property*

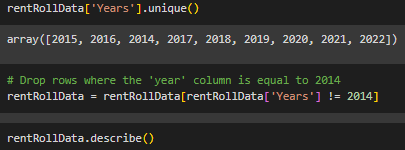
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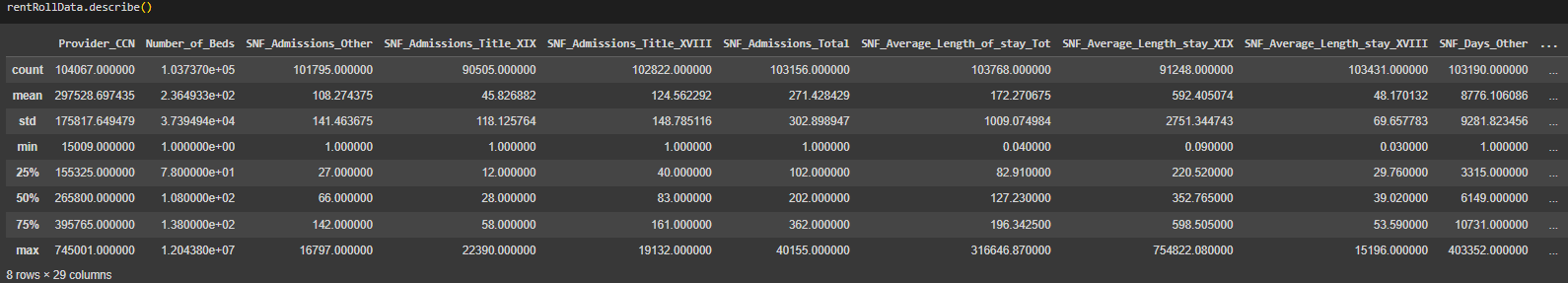
*Rent Roll*

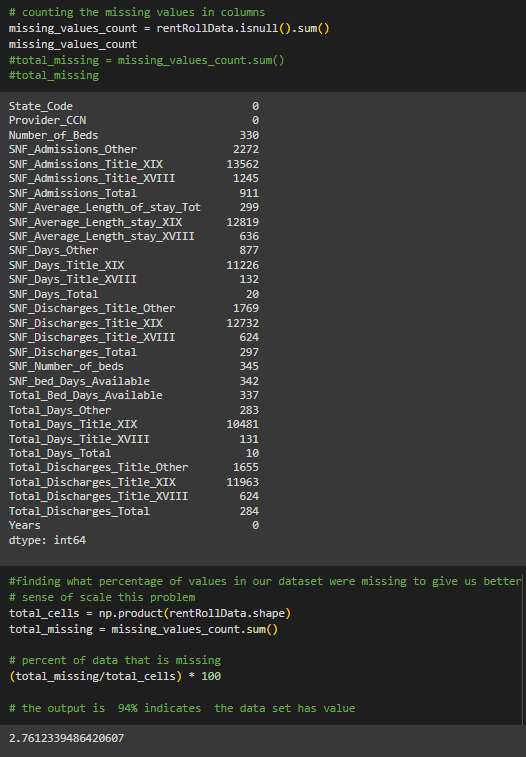
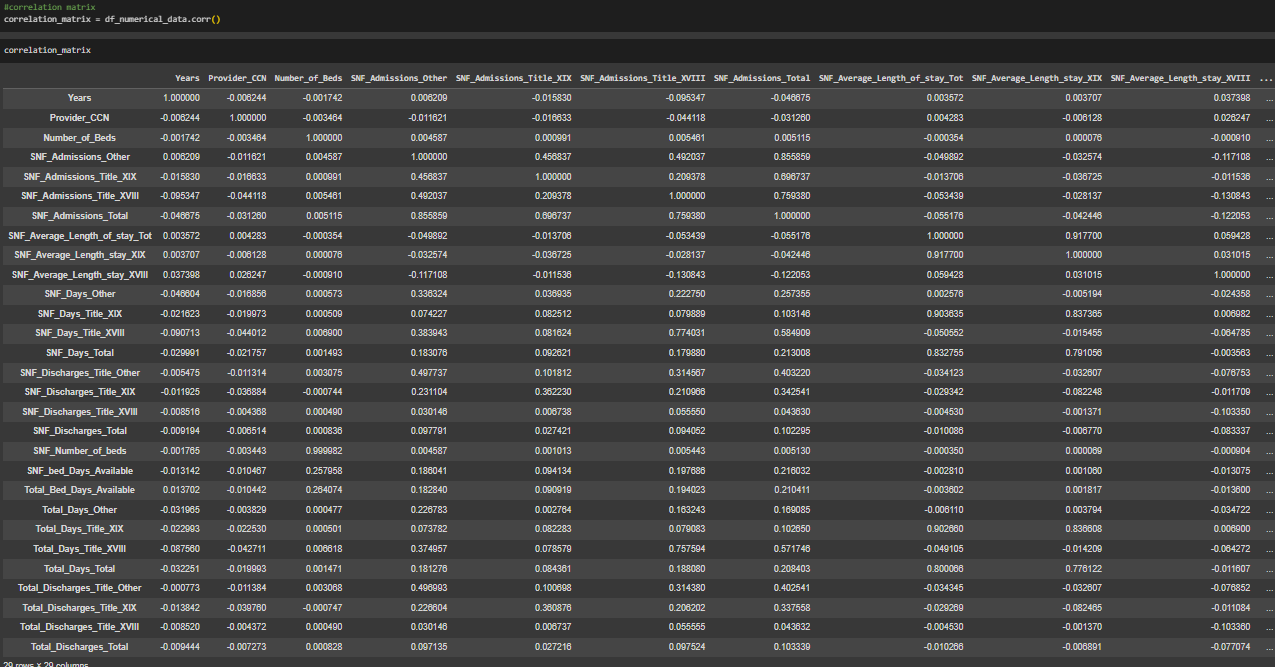
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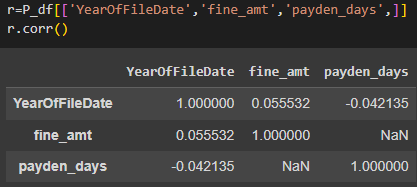
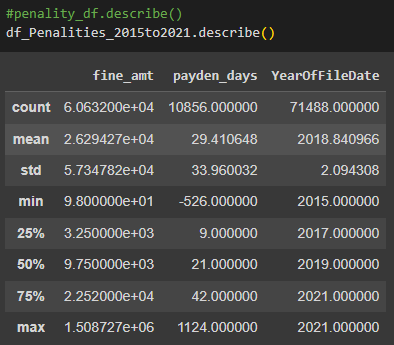
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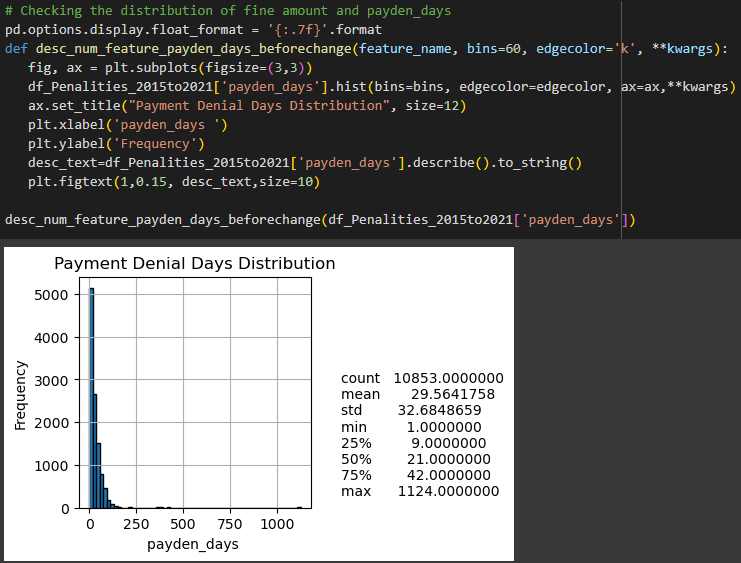
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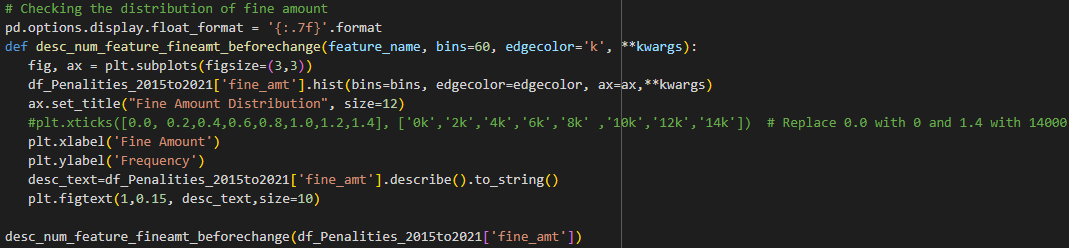
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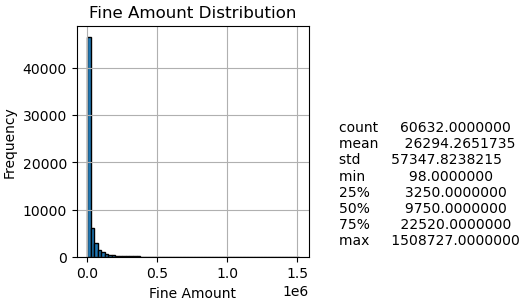
**[Insights]**

*Penalties*

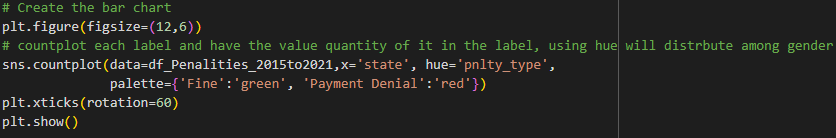
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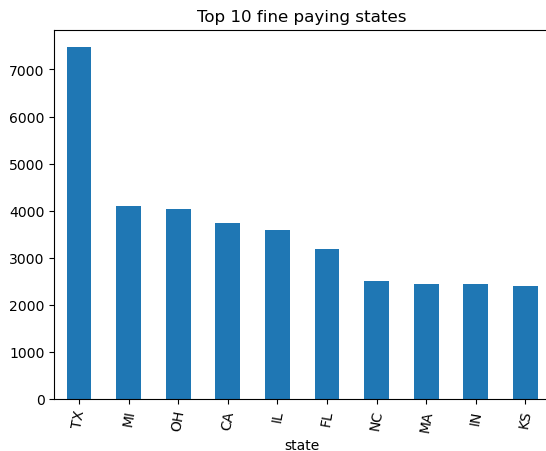
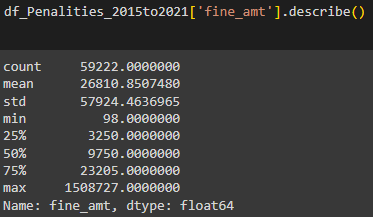
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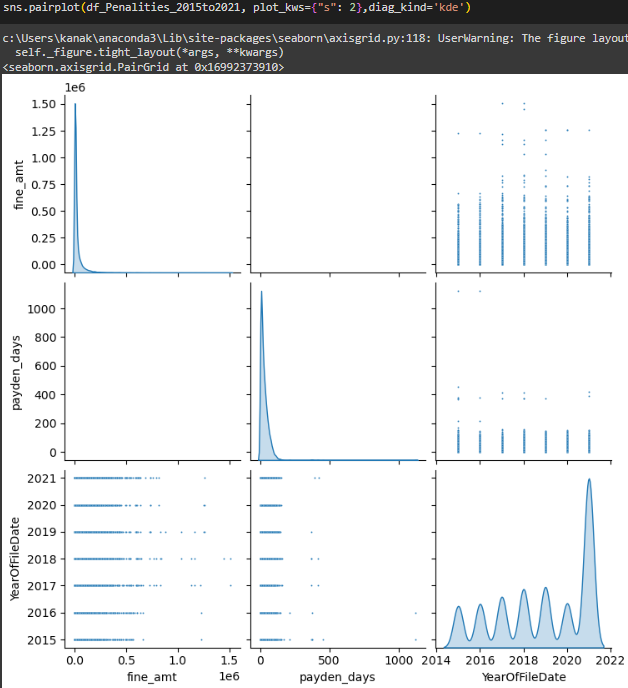
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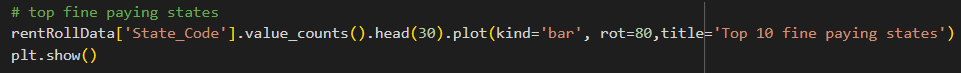
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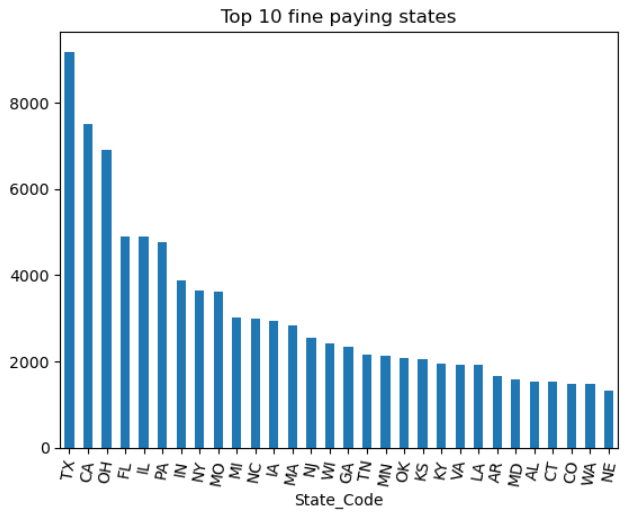
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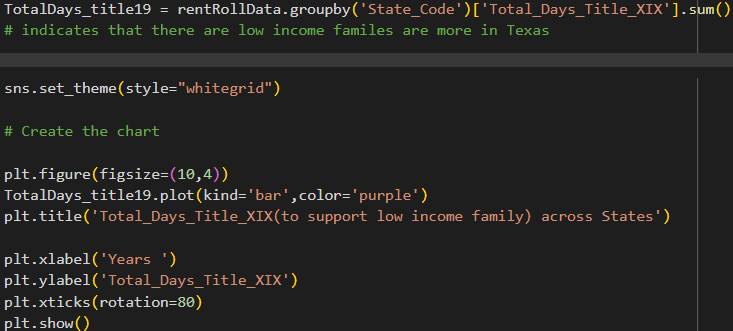
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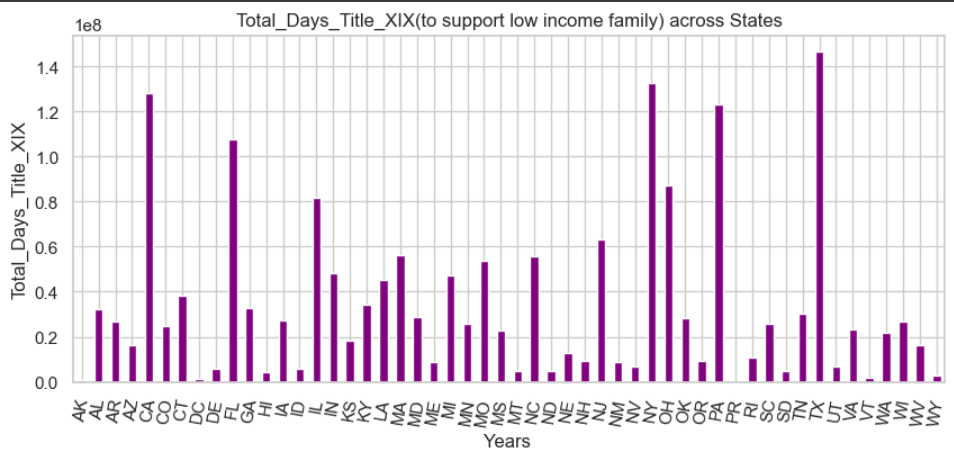
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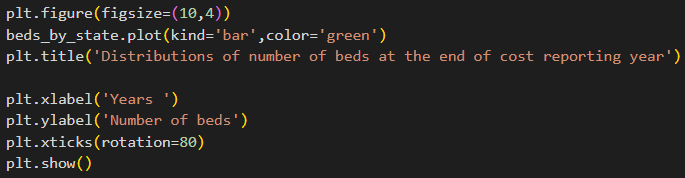
*Rent Roll*

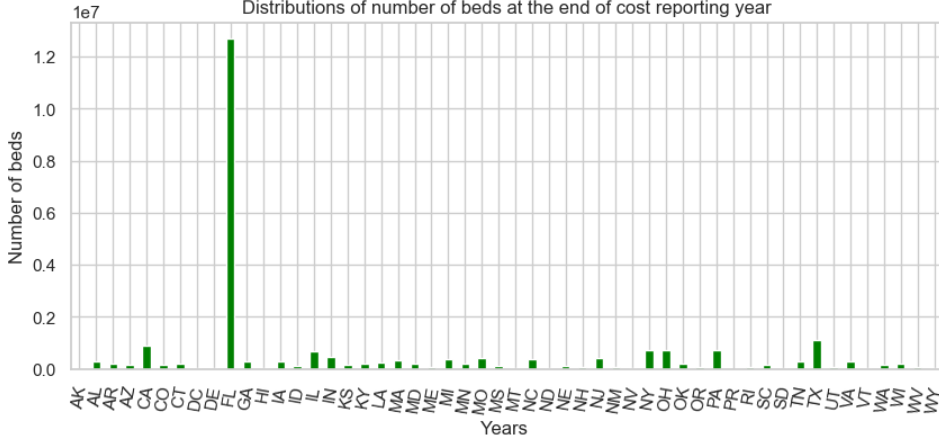


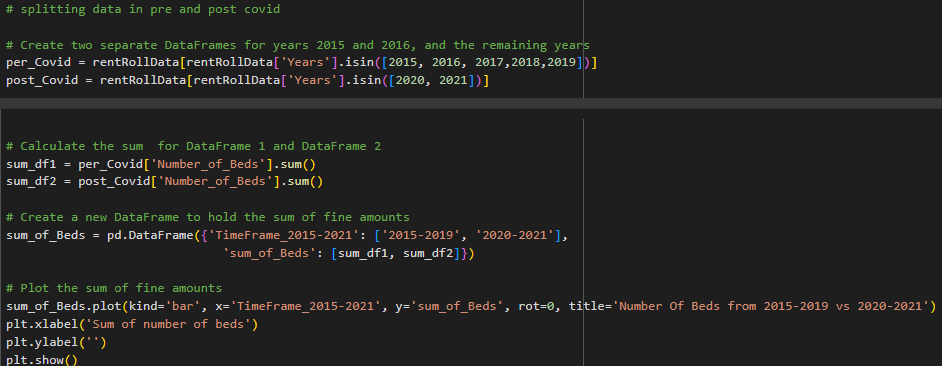
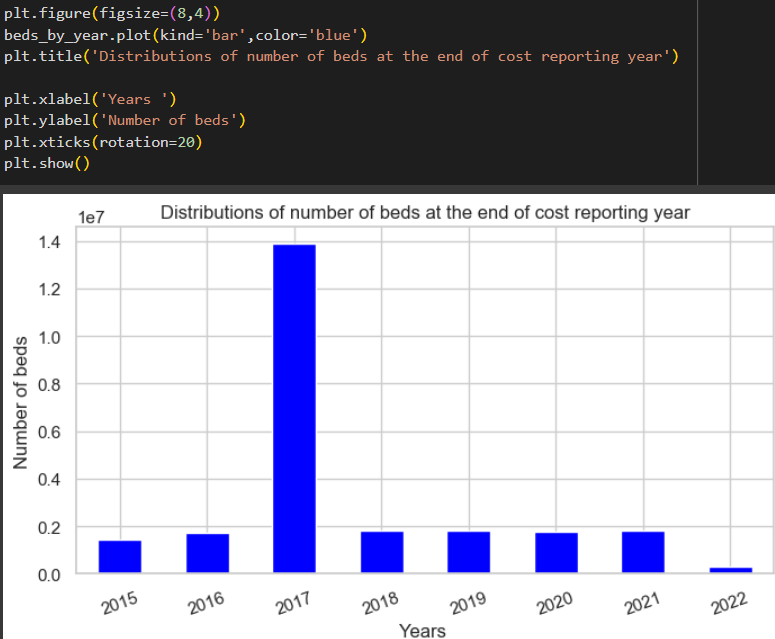


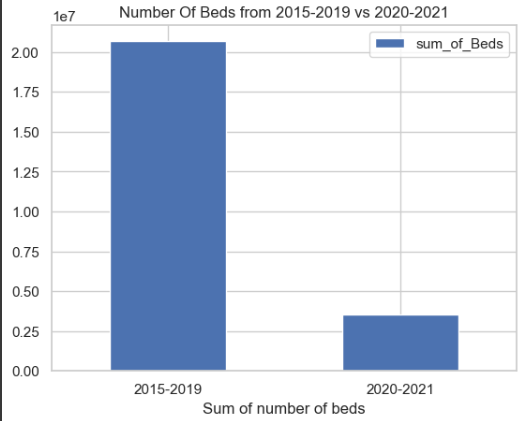
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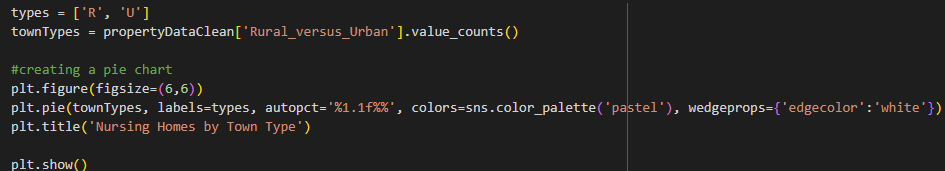


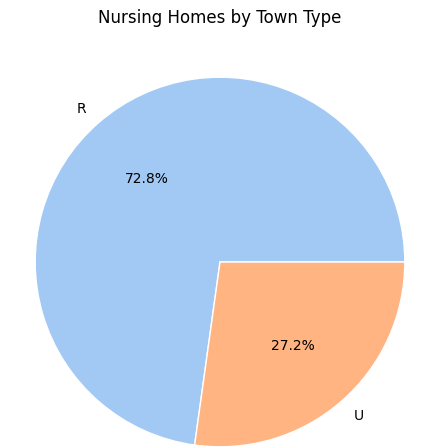


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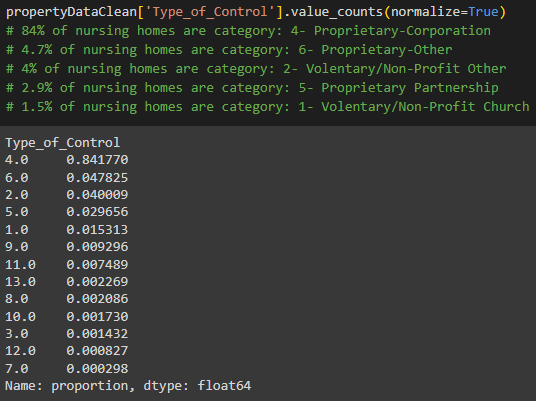


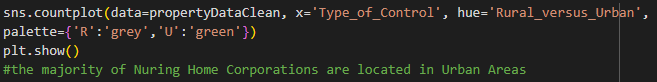
*Property*

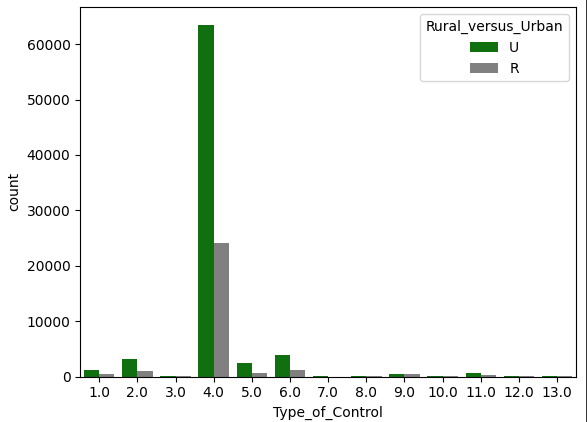




72.8 % of Nursing Home Facilities are located in Rural areas while 27 are located in Urban areas.







Majority of Nursing Home Facilities in Urban and Rural areas are Corporations.