Assessment of marginal workers in Tamilnadu

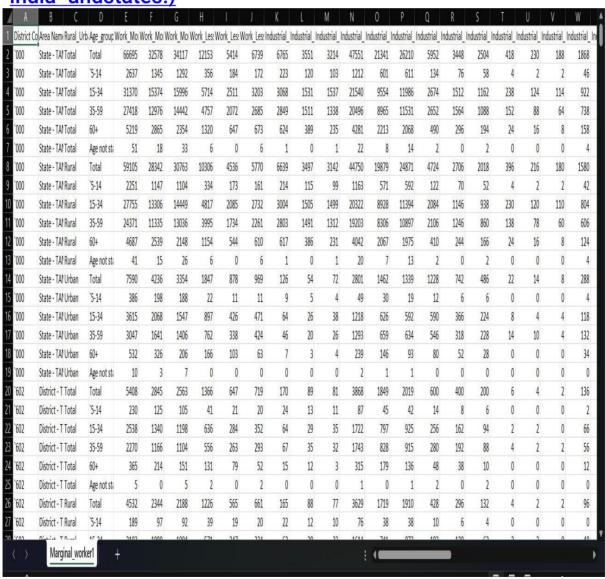
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Data collection:

The data is collected form government website and the data features are modified for my convenient. (website:

https://tn.data.gov.in/catalog/marginal-workersclassifiedage- industrial-category-and-sex-census-2011india-andstates.)



Program:

The program visualize the data form the given dataset. the visualization shows the relationship between the Area Code and number of workers worked in Tamil Nadu.

Import the required modules

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

Include the marginal worker dataset

```
#Data collection and cleaning

df=pd.read_csv("/content/drive/MyDrive/Marginal_worker1.csv")

df=df[df["District Code"]!="`000"]

df=df.reset_index(drop=True)

tot_condition=df["Age_group"]=="Total"

Total_people=df[tot_condition]

con1=df["Rural_Urban"]=="Total"

con2=df["Age_group"]=="Total"

district_tot=Total_people[con1==con2]
```

Virtualize the relation between area code and other features

```
Data Visualization

ols=list(df.columns)

ols.remove("District Code")

ols.remove("Rural_Urban")

ols.remove("Age_group")

ols

or i in cols:

plt.figure().set_figwidth(15)

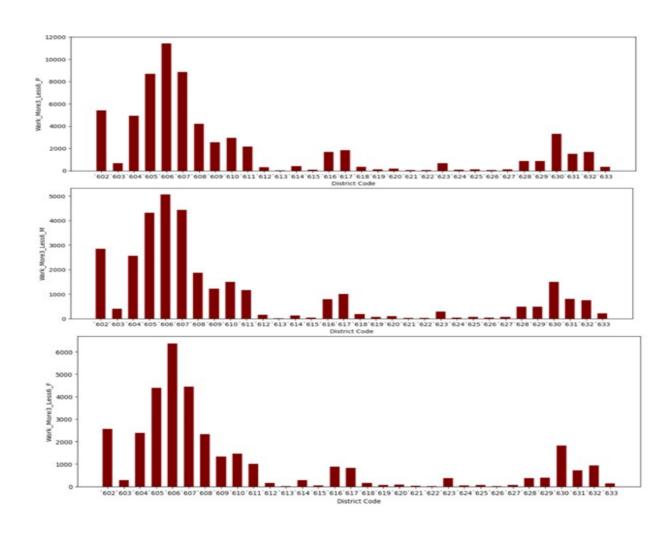
plt.bar(df["District Code"], df[i], color ='maroon', width = 0.6)

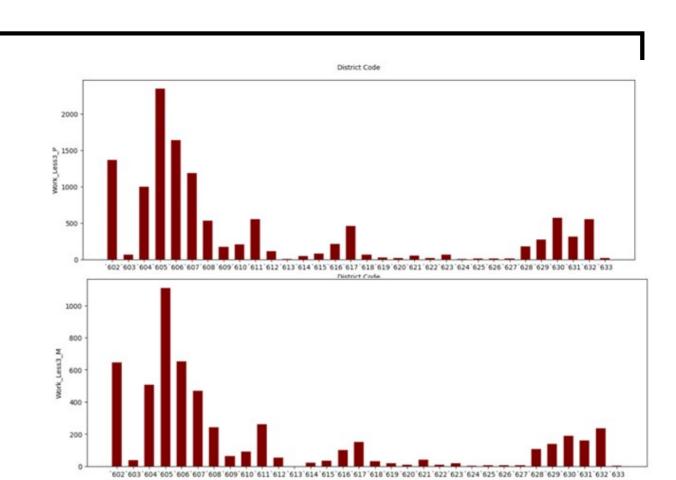
plt.xlabel("District Code")

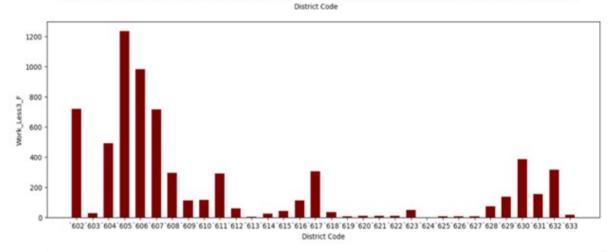
plt.ylabel(i)

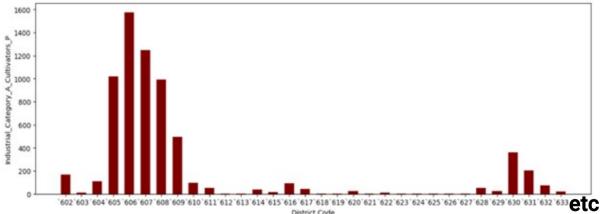
plt.show()
```

Output of the relation in bar chart





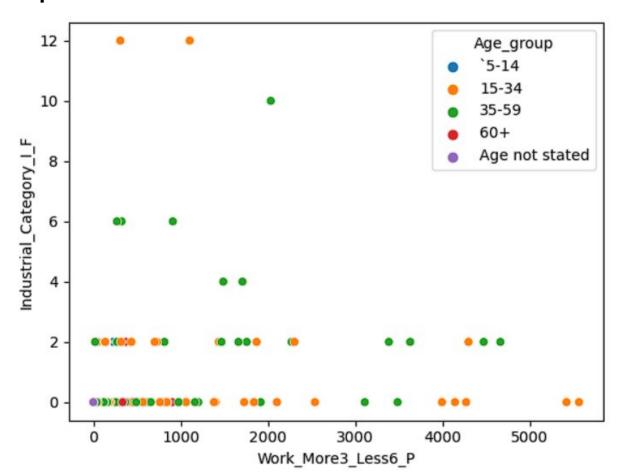




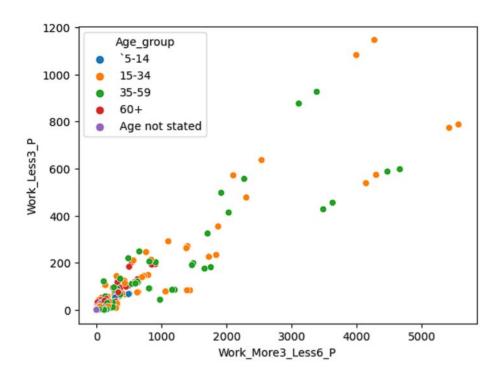
Correlation between two features

```
Age_df=df["Age_group"] != "Total"
Age_data=df[Age_df]
cols1=list(df.columns)
cols1.remove("Barea Name")
cols1.remove("Rural_Urban")
cols1.remove("Age_group")
for i in cols1:
    sns.scatterplot(data=Age_data,x=i,y=j,hue=Age_data["Age_group"])
    plt.xlabel(i)
    plt.ylabel(j)
    plt.show()
```

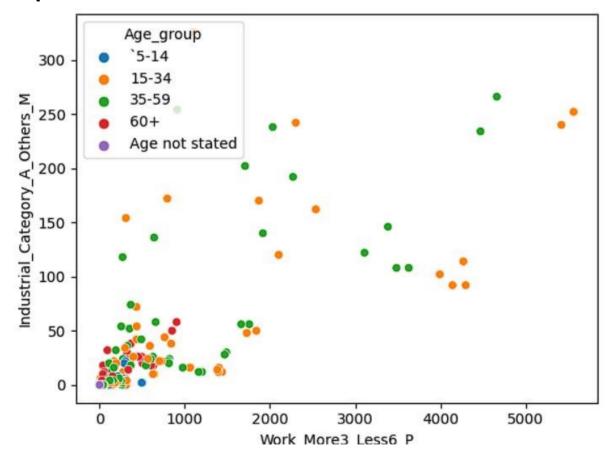
Output 1:



Output 2:



Output 3:



Etc

Overall virtualization of the Dataset:

```
plt.figure().set_figwidth(15)
district_tot.plot.bar(legend=False)
```

Output:

