

COLLEGE CODE: 8107

COURSE: DATA ANALYTICS WITH COGNOS

PHASE III: PROJECT SUBMISSION

PROJECT TITLE: Assessment of marginal workers in

Tamil Nadu – A socioeconomic Analysis

TEAM MEMBERS DETAILS:

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Code implementation steps:

Step1: Import libraries.

Step2: Load the given dataset.

Step3: Preprocessing the data:

- Data cleaning
- Data processing
- Data transforming

Program:

Step1

```
>>import pandas as pd

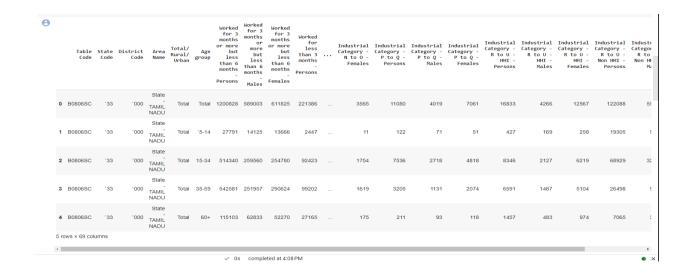
df=pd.read_csv(r"/content/nm.csv")

print(df)
```

```
Industrial Category - R to U - HHI - Females \
Industrial Category - R to U - HHI - Females \
Industrial Category - R to U - HHI - Females \
Industrial Category - R to U - HHI - Females \
Industrial Category - R to U - Non HHI - Persons \
Industrial Category - R to U - Non HHI - Persons \
Industrial Category - R to U - Non HHI - Persons \
Industrial Category - R to U - Non HHI - Males \
Industrial Category - R to U - Non HHI - Males \
Industrial Category - R to U - Non HHI - Males \
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Industrial Category - R to U - Non HHI - Males \
Industrial Category - R to U - Non HHI
```

Step2.1

>>df.head()



Step 2.2

>>df.info()

```
Cclass 'pandas.core.frame.DataFrame')

Bate Column (total 69 Column):

Total Coole

Table Code

Table
```

Step 2.3

>>df.describe()

	Worked for 3 months or more but less than 6 months - Persons	Worked for 3 months or more but less than 6 months - Males	Worked for 3 months or more but less than 6 months - Females	Worked for less than 3 months - Persons	Worked for less than 3 months - Males	Worked for less than 3 months - Females	Industrial Category - A - Cultivators - Persons	Industrial Category - A - Cultivators - Males	Industrial Category - A - Cultivators - Females	Industrial Category - A - Agricultural labourers - Persons	 Industrial Category - N to 0 - Females	Industrial Category - P to Q - Persons	Industrial Category - P to Q - Males	C
count	5.940000e+02	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	594.000000	5
mean	1.617277e+04	7932.700337	8240.067340	2981.629630	1338.289562	1643.340067	865.117845	466.424242	398.693603	12225.616162	48.013468	149.225589	54.127946	
std	7.607172e+04	36864.822704	39259.545337	13909.621137	6127.047670	7808.832522	4274.458077	2298.072295	1978.682322	60458.382586	222.553500	696.553730	253.067862	2
min	0.000000e+00	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
25%	2.872500e+02	147.250000	144.000000	27.000000	14.250000	13.000000	9.000000	5.000000	4.000000	79.250000	0.000000	0.000000	0.000000	
50%	2.225500e+03	1147.000000	1076.000000	430.000000	198.500000	213.000000	69.500000	35.500000	32.000000	1094.000000	2.000000	14.500000	6.000000	
75%	9.628500e+03	4770.500000	4887.500000	1775.250000	774.250000	946.500000	466.000000	244.250000	204.750000	6279.750000	18.000000	99.750000	35.750000	
max	1.200828e+06	589003.000000	611825.000000	221386.000000	99368.000000	122018.000000	64235.000000	34632.000000	29603.000000	907752.000000	3565.000000	11080.000000	4019.000000	70
8 rows ×	63 columns													
4														+

Step 2.4

>>df.isnull()

		Code	District Code		Total/ Rural/ Urban	Age group	months or more but less than 6 months - Persons	or more but less than 6 months - Males	months or more but less than 6 months - Females	for less than 3 months - Persons		Industrial Category - P to Q - Persons	Industrial Category - P to Q - Males	Industrial Category - P to Q - Females		Industrial Category - R to U - HHI - Males			Industri Category R to U Non HHI Mal
0 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	Fa
1 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	Fa
2 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
3 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
4 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
589 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
590 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
591 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
592 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F
593 F	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	F

Step 3.1

```
>>missingvalues=df.isna() print(missingvalues)
```

```
| Spide | False | Thoustrial Category - R to U - HMI - Females | False | False
```

Step 3.2

>>missingvalues.sum()

```
Table Code
State Code
District Code
Area Name
Total/ Rural/ Urban

Industrial Category - R to U - HHI - Males
Industrial Category - R to U - HHI - Females
Industrial Category - R to U - Non HHI - Persons
Industrial Category - R to U - Non HHI - Males
Industrial Category - R to U - Non HHI - Males
Industrial Category - R to U - Non HHI - Males
Industrial Category - R to U - Non HHI - Females
Undustrial Category - R to U - Non HHI - Females
Industrial Category - R to U - Non HHI - Females
Undustrial Category - R to U - Non HHI - Females
Undustrial Category - R to U - Non HHI - Females
```

Step 3.3

>>data=df.fillna(df.mean()) print(data)

