



```
1 import numpy as np
2 import pandas as pd
3 import matplotlib as mpl
4 import matplotlib.pyplot as plt
5 import seaborn as sns
6 %matplotlib inline
```

```
1 columns = ['Age', 'Workclass', 'fnlgt', 'Education', 'Education num', 'Marital Status',
2           'Occupation', 'Relationship', 'Race', 'Sex', 'Capital Gain', 'Capital Loss',
3           'Hours/Week', 'Native country', 'Income']
4 train = pd.read_csv(https://raw.githubusercontent.com/vivek2319/Predicting-US-Census-Income/master/Dataset/adult)
```

## Q1.Display the columns

```
1 train.columns

Index(['Age', 'Workclass', 'fnlgt', 'Education', 'Education num',
      'Marital Status', 'Occupation', 'Relationship', 'Race', 'Sex',
      'Capital Gain', 'Capital Loss', 'Hours/Week', 'Native country',
      'Income'],
      dtype='object')
```

## Q2.Display the first five records

```
1 train.head()
2
```

Workclass	fnlgwt	Education	Education num	Marital Status	Occupation	Relationship	Race	Sex	Capital Gain	Capital Loss	Hours/Week
State-gov	77516	Bachelors	13	Never-married	Adm-clerical	Not-in-family	White	Male	2174	0	40
Self-emp-not-inc	83311	Bachelors	13	Married-civ-spouse	Exec-managerial	Husband	White	Male	0	0	13
Private	215646	HS-grad	9	Divorced	Handlers-cleaners	Not-in-family	White	Male	0	0	40
Private	234721	11th	7	Married-civ-spouse	Handlers-cleaners	Husband	Black	Male	0	0	40
				Married-	-	-					

Q3. Display the count of people genderwise

Q4.Display the count of people education wise.

Q5. Display the count of males working in private

Q6. Display the count of female from Cuba

Q9. Display the average and median age of people with Doctorate

Q10. Display the male white people working in United States.

Q11. Display in each race how many males are there

Q12. Display the min max average median and mode of age

Q13. Display the min max average median and mode of no of working hrs.

What can you infer about the distribution of these features.

Q16. Plot a histogram of age and observe how it is.

Q17. Plot an overlay graph with age and no of working hours

Q18. How many records are there where the native country name starts with C and works in PRIVATE

Q19. Visualise the genderwise relationship status

Q20. Visualise race and genderwise employees belonging to same country.

Q21. Visualise and Compare the earnings of males and females using a plot and write your inference.

Q22. Visualise and Compare marital status and age, with categorical differentiation of gender.