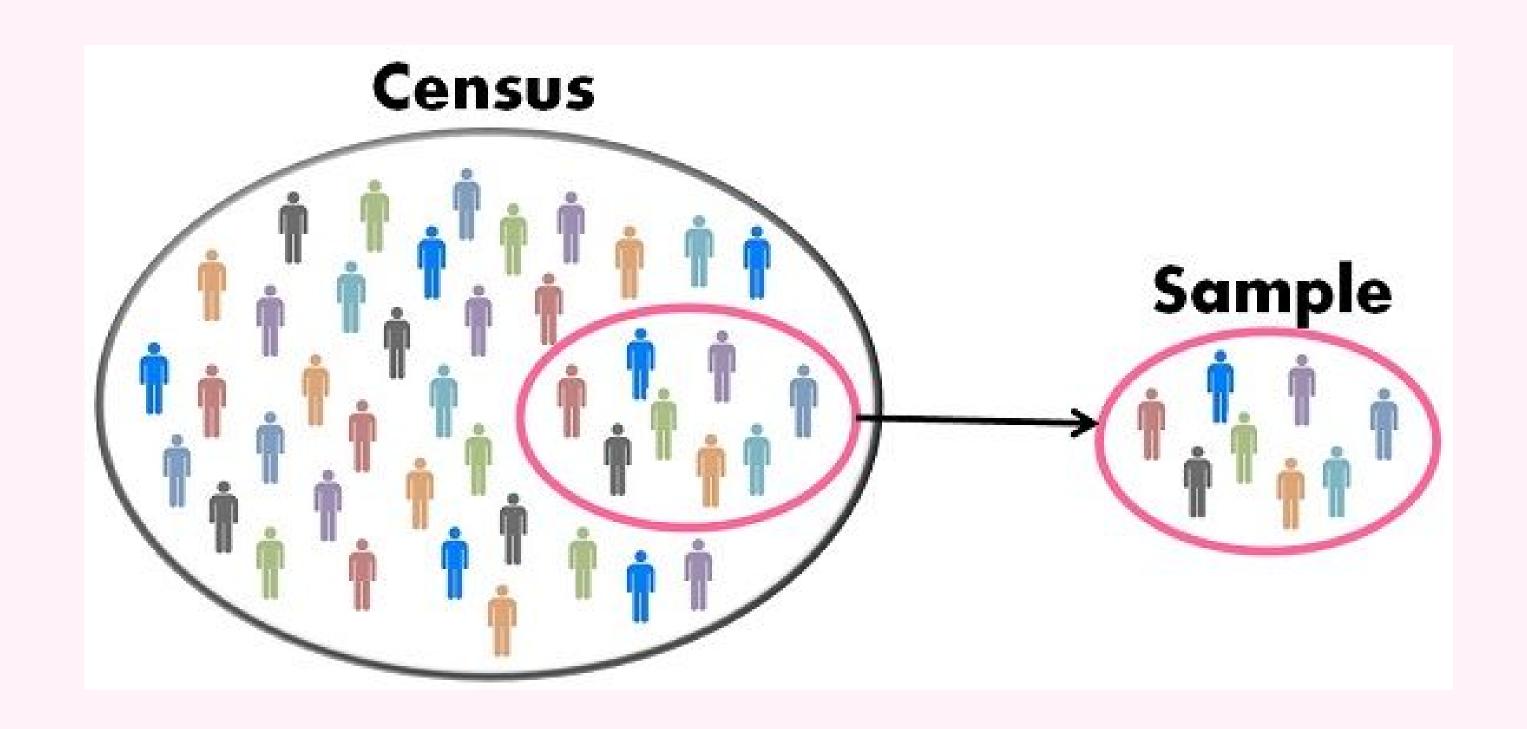


ADULT CENSUS INCOME

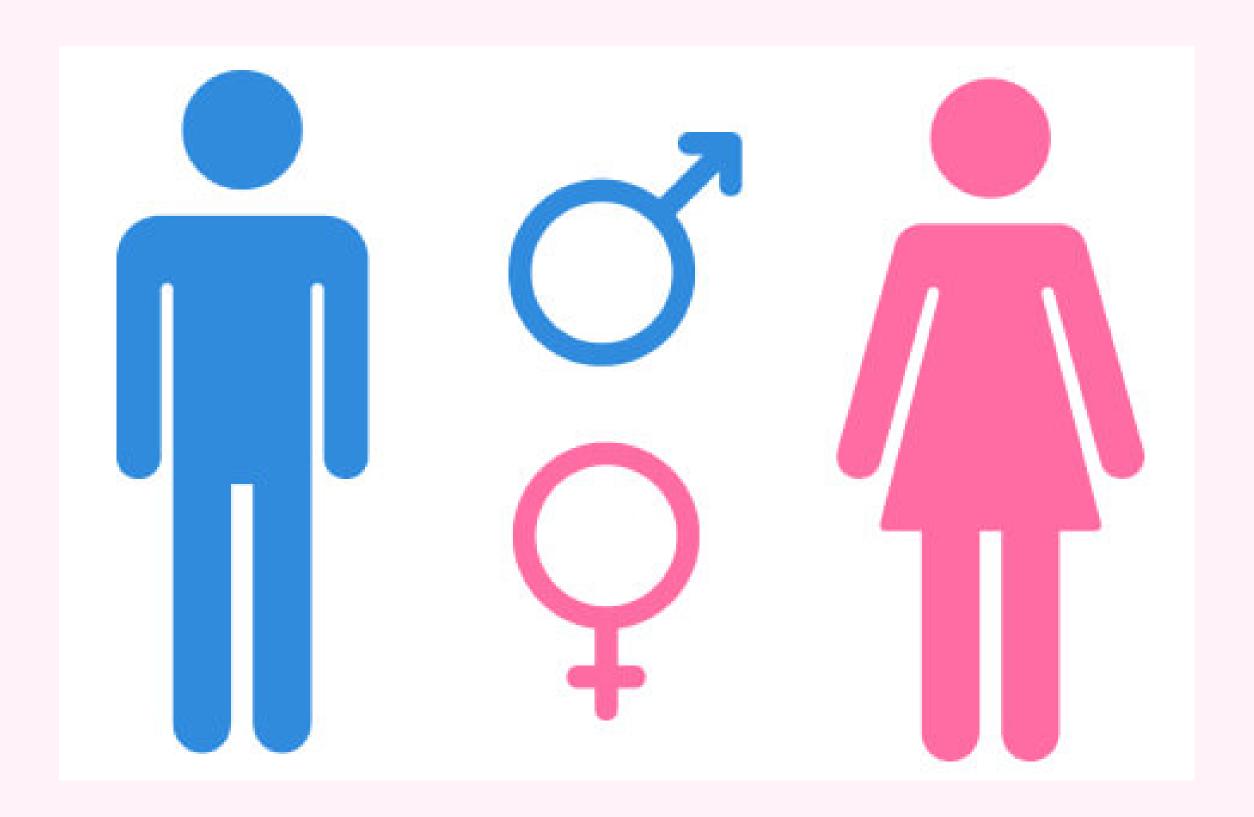
DYLAN JAMES N. DEJORAS CPE22S3

WHAT IS THE IMPORTANCE OF CENSUS?



SAMPLING THE DATASET...

WHY?



EXTRACTED DATA

<pre>sex_agg = category_df.groupby('sex').agg({ 'fnlwgt': 'mean', 'dean')</pre>	sex	fnlwgt	educati on- num	capital- gain	capital- loss	hours- per- week	income
<pre>'education-num': 'max', 'capital-gain': 'max', 'capital-loss': 'max', 'hours-per-week': 'mean',</pre>	Female	185491 .732172	16	99999	4356	36.403 720	16182
<pre>'income': 'count' }) sex_agg</pre>	Male	191738. 905795	16	99999	3770	42.419 264	32631

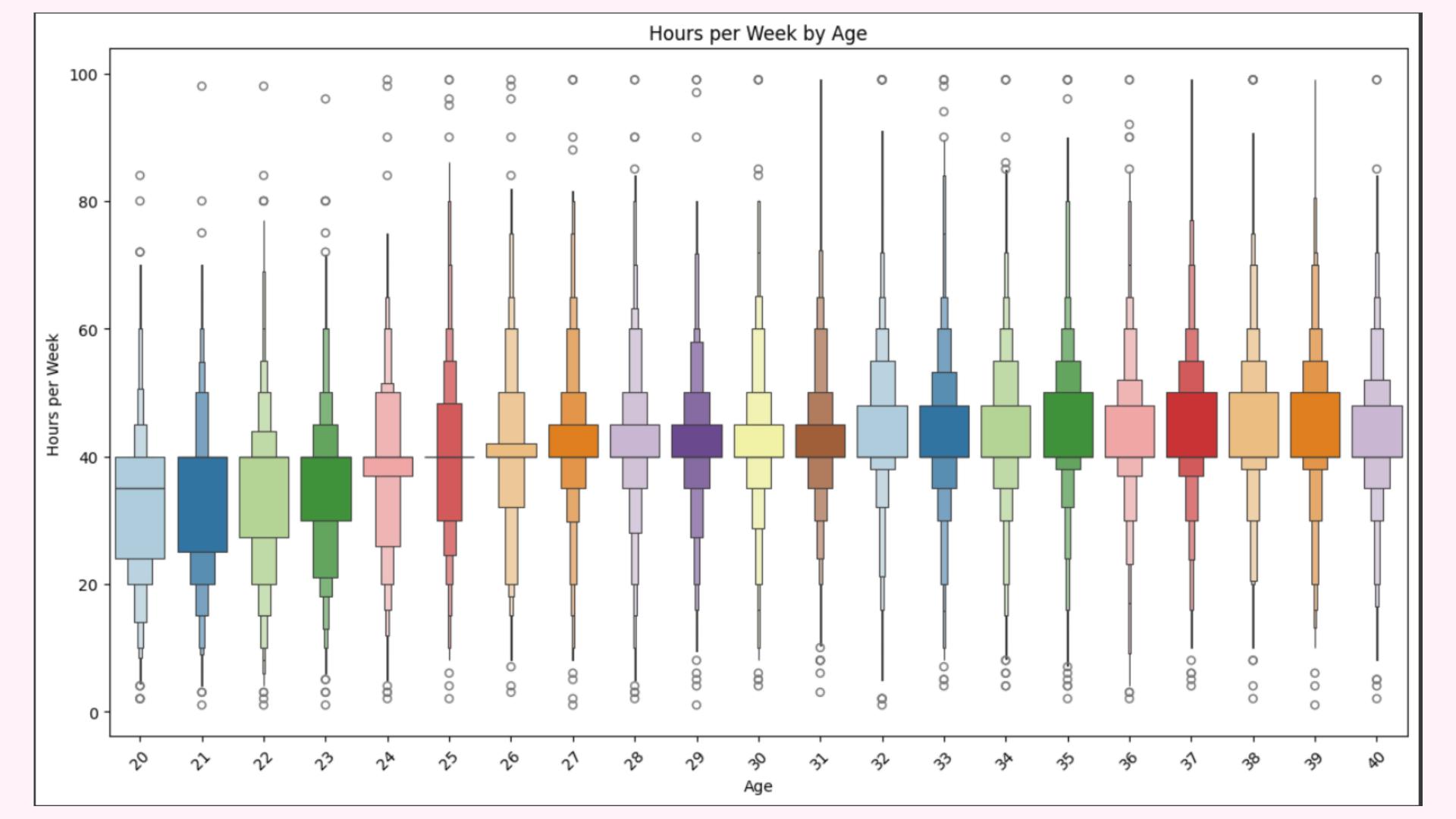
EXTRACTED DATA

CODE:

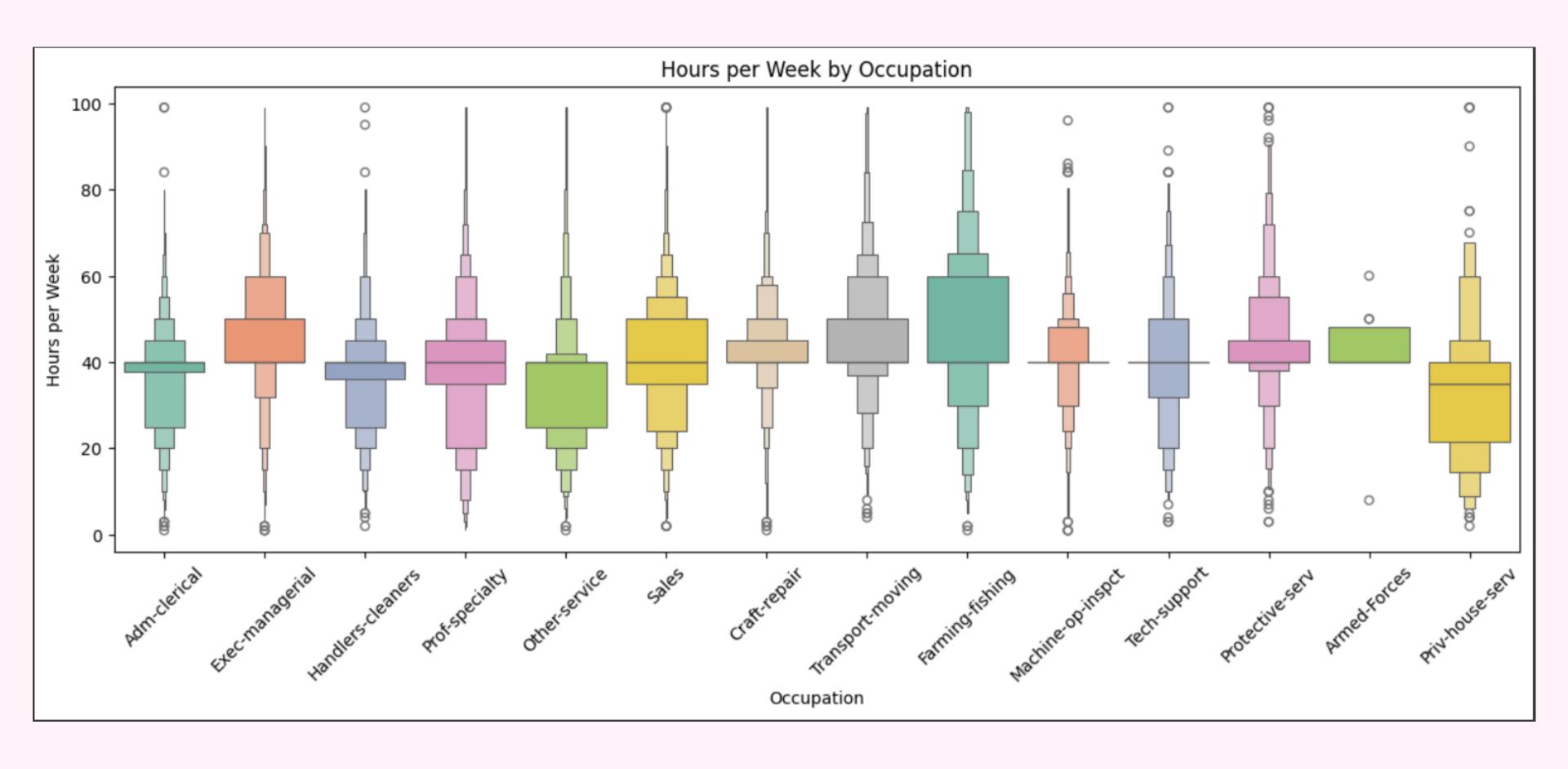
```
relationship_agg = category_df.groupby('relationship').agg({
    'fnlwgt': 'mean',
    'education-num': 'max',
    'capital-gain': 'max',
    'capital-loss': 'max',
    'hours-per-week': 'mean',
    'income': 'count'
})
relationship_agg
```

relationship	fnlwgt	education- num	capital-gain	capital-loss	hours-per- week	income
Husband	187222.099 853	16	99999	2603	44.167183	19709
Not-in- family	190334.002 387	16	99999	4356	40.530516	12567
Other- relative	203524.602 258	16	41310	3683	37.128154	1506
Own-child	193756.483 105	16	99999	3900	33.154567	7576
Unmarried	191381.556 206	16	99999	4356	39.172326	5124
Wife	180748.781 639	16	99999	2457	36.729730	2331



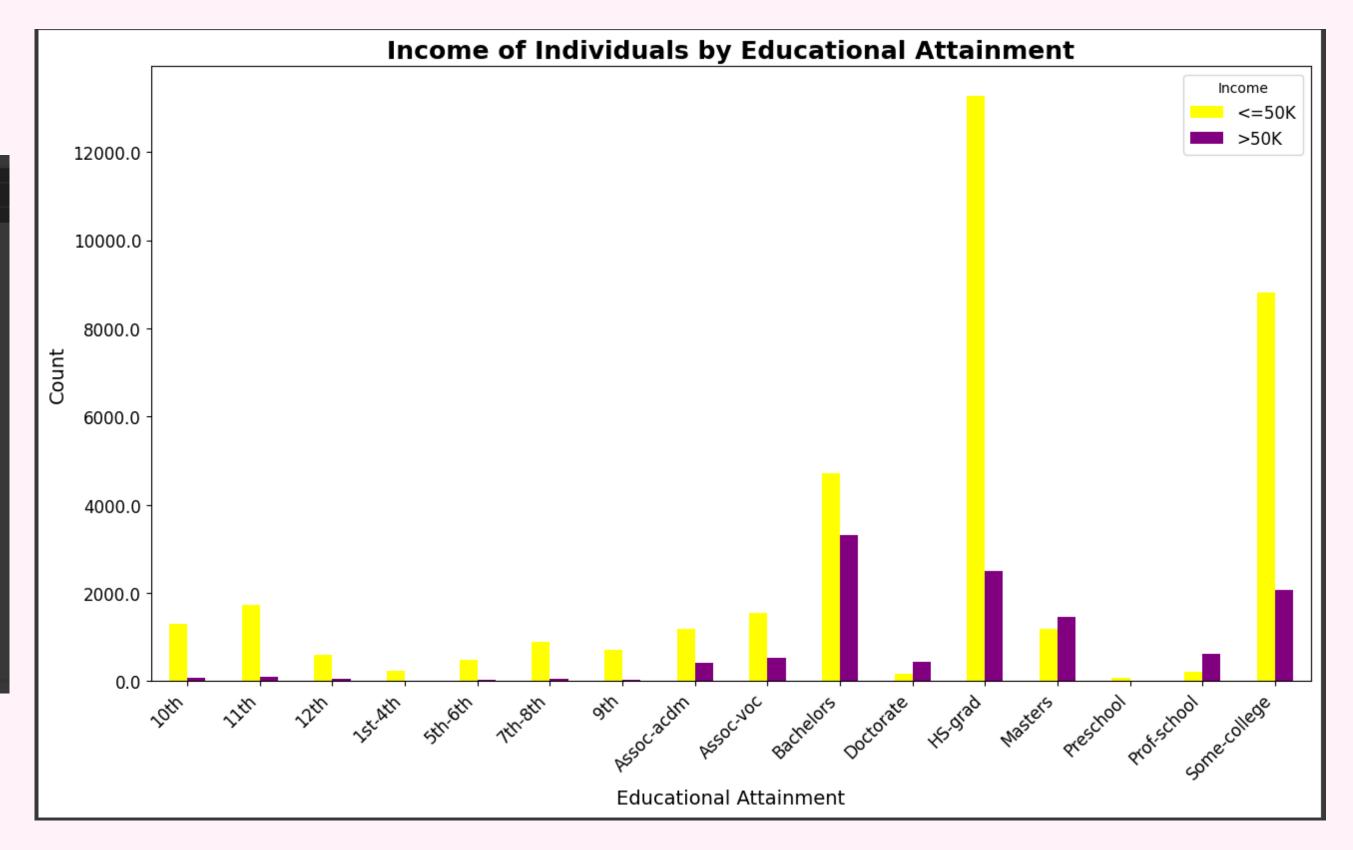






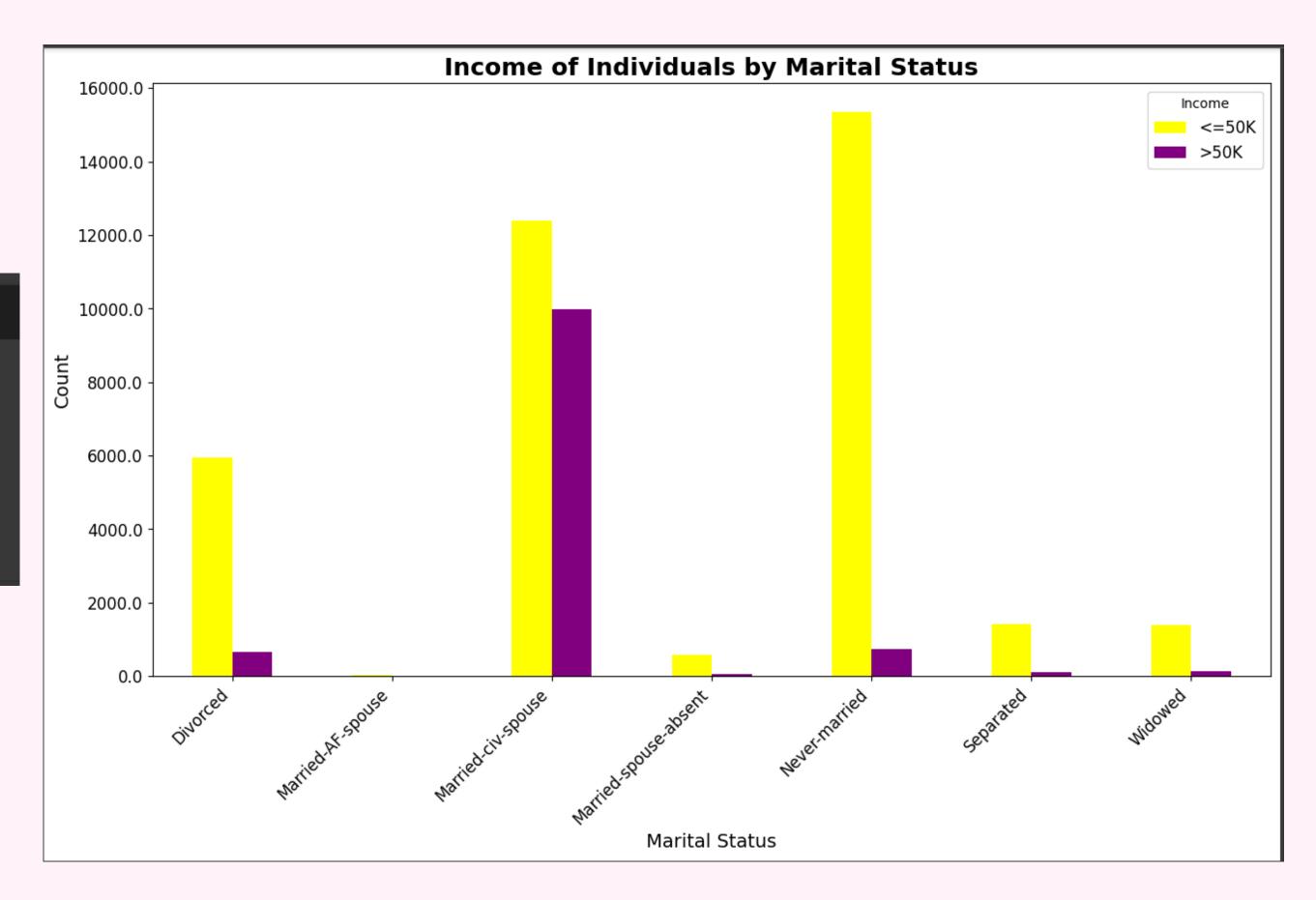


```
category_df.value_counts('education')
education
HS-grad
               15777
Some-college
                10869
Bachelors
                8020
Masters
                2656
Assoc-voc
                2060
11th
                1812
Assoc-acdm
                1601
10th
                1389
7th-8th
                 954
Prof-school
                 834
                 756
9th
12th
                 656
Doctorate
                 594
5th-6th
                 508
1st-4th
                 245
Preschool
                  82
Name: count, dtype: int64
```



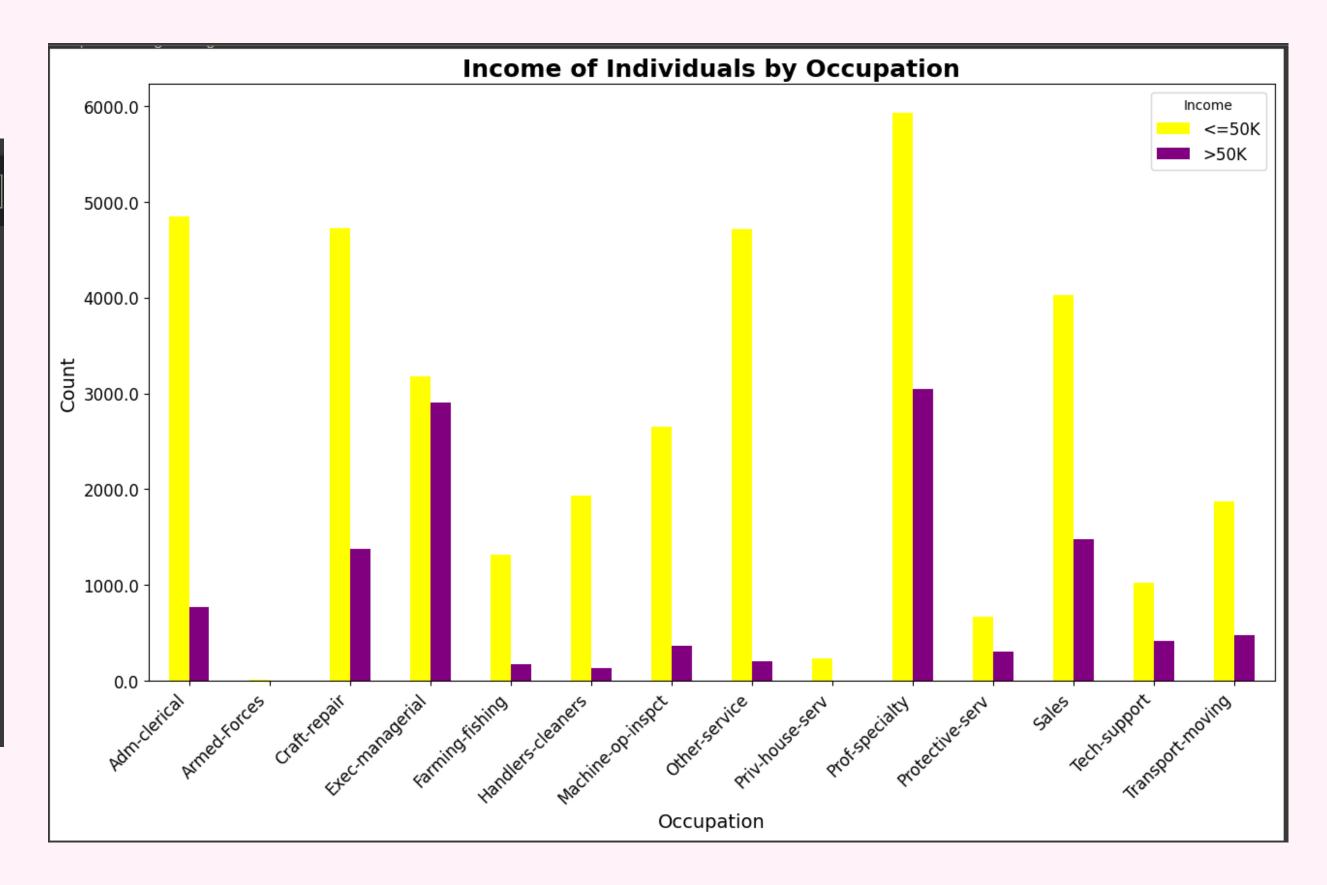


category_df.value_counts('marital-status') marital-status Married-civ-spouse 22372 Never-married 16098 Divorced 6630 Separated 1530 Widowed 1518 Married-spouse-absent 628 Married-AF-spouse 37 Name: count, dtype: int64





category_df.value_c	ounts <mark>(</mark> 'occupation <mark>'</mark>
occupation	
Prof-specialty	8976
Craft-repair	6107
Exec-managerial	6084
Adm-clerical	5608
Sales	5504
Other-service	4919
Machine-op-inspct	3019
Transport-moving	2355
Handlers-cleaners	2071
Farming-fishing	1487
Tech-support	1445
Protective-serv	983
Priv-house-serv	240
Armed-Forces	15
Name: count, dtype:	int64



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Thank You