Parents Health vs child social behaviour

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Parents Mental Health vs Child Social behaviour

The NESARC dataset is taken to analyse the correlation between parents mental health and Childrens social behavior.I am interested in analyzing individuals with social phobia ie those having difficulties in social situations.

PROGRAM

```
import pandas as pd
import numpy
# any additional libraries would be imported here
```

```python
#only took 10000 records to analyze from the NESARC dataset
reader1 = pd.read_csv('nesarc_pds.csv',nrows=9999,low_memory=False)

#VARIABLES USED TO ANALYSE
#S7Q1 EVER HAD STRONG FEAR OR AVOIDANCE OF SOCIAL SITUATION
#S4BQ1 BLOOD/NATURAL FATHER EVER DEPRESSED
#S4BQ2 BLOOD/NATURAL MOTHER EVER DEPRESSED

c1=reader1["S7Q1"].value_counts(sort=False)
print(c1)

#1     974
#9     334
#2    8692
#Name: S7Q1, dtype: int64
# 974 of 10000 had social phobia

#only required Variables are selected and the dataframe reader is created
reader=reader1[['AGE','S7Q1','S4BQ2','S4BQ1']]
#print(reader)
#reader3=reader[(reader['S7Q1']==1)]
print(reader3)
# 974 had issues with social phobia from the 10000 individual records

#Individuals having social phobia with also both parents information having depression
reader4=reader[(reader['S7Q1']==1)& (reader['S4BQ2']==1)& (reader['S4BQ1']==1)]
#print(reader4)
# 130 individuals had both parents with depression
```

```
#Individuals having social phobia with only biological dad having depression
reader5=reader[(reader['S7Q1']==1)& (reader['S4BQ2']!=1)& (reader['S4BQ1']==1)]
#print(reader5)
# 60 individuals had only dad having depression

#Individuals having social phobia with only biological mom having depression
reader6=reader[(reader['S7Q1']==1)& (reader['S4BQ2']==1)& (reader['S4BQ1']!=1)]
print(reader6)
# 181 individuals had only mom having depression
```

OUTPUT SHOWN ONLY FOR MOM having depression and we see 181 rows

Name: S7Q1, dtype: int64

	AGE	S7Q1	S4BQ2	S4BQ1
167	51	1	1	9
199	28	1	1	9
204	68	1	1	2
299	28	1	1	2
339	42	1	1	9
344	32	1	1	2
485	42	1	1	2
713	53	1	1	2
740	35	1	1	2
806	34	1	1	2
821	20	1	1	2
928	51	1	1	2
1018	56	1	1	2
1054	32	1	1	2
1058	46	1	1	2
1079	54	1	1	2

1144	38	1	1	2
1233	23	1	1	2
1261	35	1	1	2
1338	26	1	1	9
1421	33	1	1	2
1429	24	1	1	2
1532	43	1	1	2
1556	28	1	1	9
1574	23	1	1	9
1606	46	1	1	9
1636	39	1	1	9
1865	43	1	1	2
1919	53	1	1	2
1932	45	1	1	9
…	…	…	…	
8207	35	1	1	2
8237	34	1	1	2
8238	40	1	1	2
8253	36	1	1	2
8255	53	1	1	2
8258	38	1	1	9
8340	21	1	1	2
8429	78	1	1	2
8594	40	1	1	2
8629	65	1	1	2
8641	53	1	1	2
8777	38	1	1	9
8784	70	1	1	9
8817	78	1	1	9

```
8939  52   1   1   9
9023  36   1   1   2
9033  52   1   1   2
9047  61   1   1   9
9088  39   1   1   2
9171  49   1   1   9
9174  53   1   1   2
9423  44   1   1   9
9430  45   1   1   2
9433  45   1   1   2
9440  19   1   1   2
9765  32   1   1   9
9770  43   1   1   9
9779  64   1   1   2
9892  40   1   1   2
9968  59   1   1   2
```

[181 rows x 4 columns]

Freq distribution with only moms having depression = 181/10000 = 0.0181

Freq distribution with only dad having depression = 60/10000 = 0.006

Freq distribution with both parents having depression = 0.013

Mothers health affects the individual children more.

Hello, Research topic is Trying to find the association between parents health and child's social behavior.We will be looking at social phobia info of individuals and then finding out family history