!! CE PROJET EST TOUJOURS DANS SON ÉTAT BROUILLON !!

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


df = pd.read_csv("C:\\Users\\shera\\Downloads\\cdc2.csv")
print(df)
```

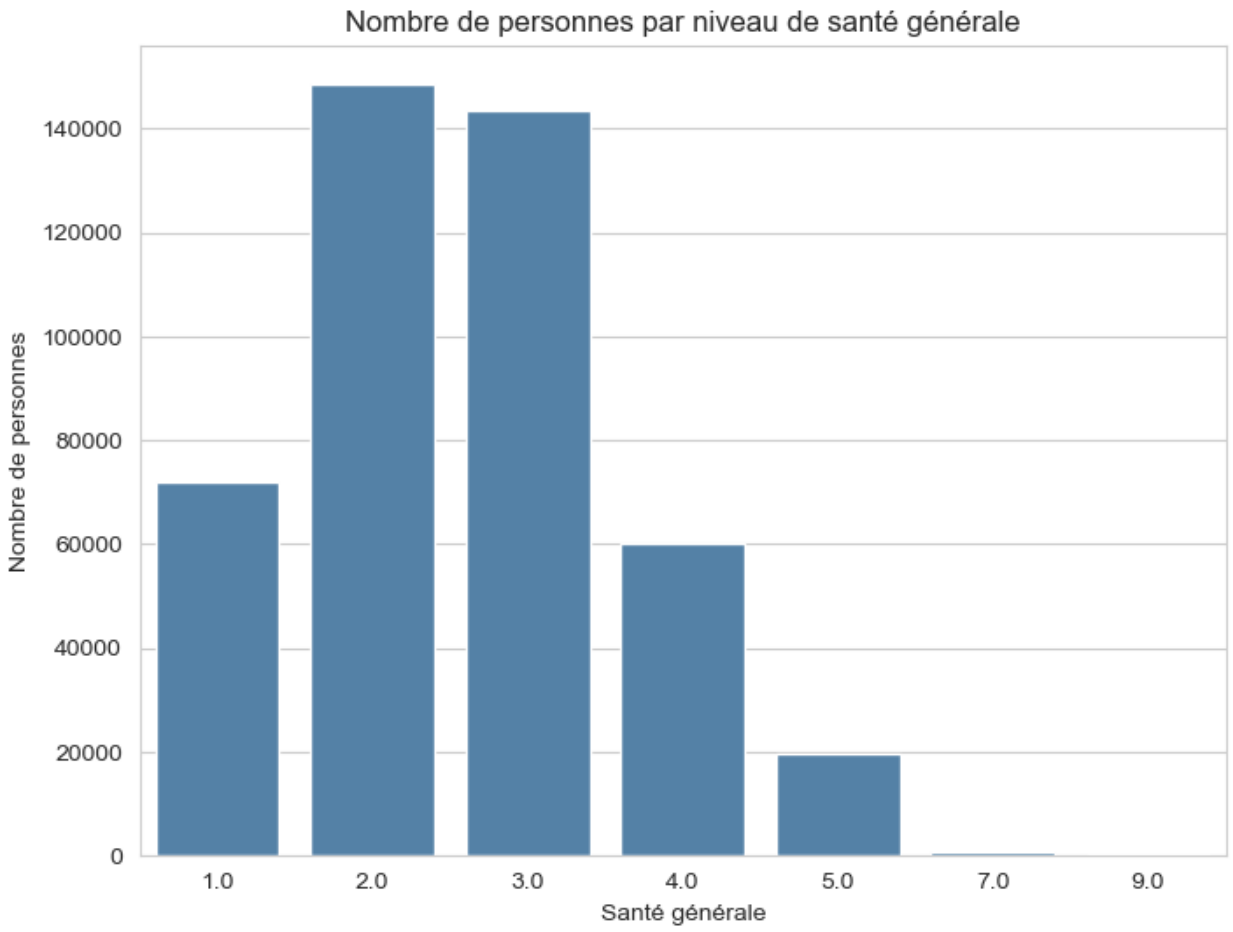
```
        _STATE  FMONTH  PVTRESD1  COLGHOUS  STATERE1  SEXVAR  GENHLTH
\
0          1.0     1.0       1.0       NaN       1.0     2.0      2.0

1          1.0     1.0       1.0       NaN       1.0     2.0      1.0

2          1.0     1.0       1.0       NaN       1.0     2.0      2.0

3          1.0     1.0       1.0       NaN       1.0     2.0      1.0

4          1.0     1.0       1.0       NaN       1.0     2.0      4.0

...        ...     ...       ...       ...       ...     ...      ...

445127    78.0    11.0       NaN       NaN       NaN     2.0      3.0

445128    78.0    11.0       NaN       NaN       NaN     2.0      1.0

445129    78.0    11.0       NaN       NaN       NaN     2.0      5.0

445130    78.0    11.0       NaN       NaN       NaN     1.0      2.0

445131    78.0    11.0       NaN       NaN       NaN     1.0      2.0


        PHYSHLTH  MENTHLTH  PERSDOC3  ...  USEMRJN4  TYPCNTR9  _AGE80
HTM4  \
0           88.0      88.0       1.0  ...       NaN       NaN    80.0
NaN
1           88.0      88.0       2.0  ...       NaN       NaN    80.0
160.0
2            2.0       3.0       1.0  ...       NaN       NaN    56.0
157.0
3           88.0      88.0       1.0  ...       NaN       NaN    73.0
165.0
4            2.0      88.0       2.0  ...       NaN       NaN    43.0
157.0
...          ...       ...       ...  ...       ...       ...     ...
...
```

```
445127      88.0       3.0       3.0  ...       NaN       NaN    19.0
165.0
445128       2.0       2.0       2.0  ...       NaN       NaN    51.0
170.0
445129      30.0      30.0       3.0  ...       NaN       NaN    65.0
170.0
445130      88.0      88.0       2.0  ...       NaN       NaN    73.0
183.0
445131      88.0       1.0       3.0  ...       NaN       NaN    42.0
168.0
```

	WTKG3	_BMI5	_YRSSMOK	_PACKDAY	_PACKYRS	_DRNKWK2
0	NaN	NaN	NaN	NaN	NaN	5.397605e-79
1	6804.0	2657.0	NaN	NaN	NaN	5.397605e-79
2	6350.0	2561.0	NaN	NaN	NaN	5.397605e-79
3	6350.0	2330.0	56.0	0.1	6.0	5.397605e-79
4	5398.0	2177.0	NaN	NaN	NaN	1.400000e+02
...	...	...	...	...	...	...
445127	6985.0	2563.0	NaN	NaN	NaN	9.990000e+04
445128	8301.0	2866.0	NaN	NaN	NaN	5.397605e-79
445129	4990.0	1723.0	44.0	1.0	44.0	9.990000e+04
445130	10886.0	3255.0	NaN	NaN	NaN	5.397605e-79
445131	6350.0	2260.0	NaN	NaN	NaN	9.990000e+04

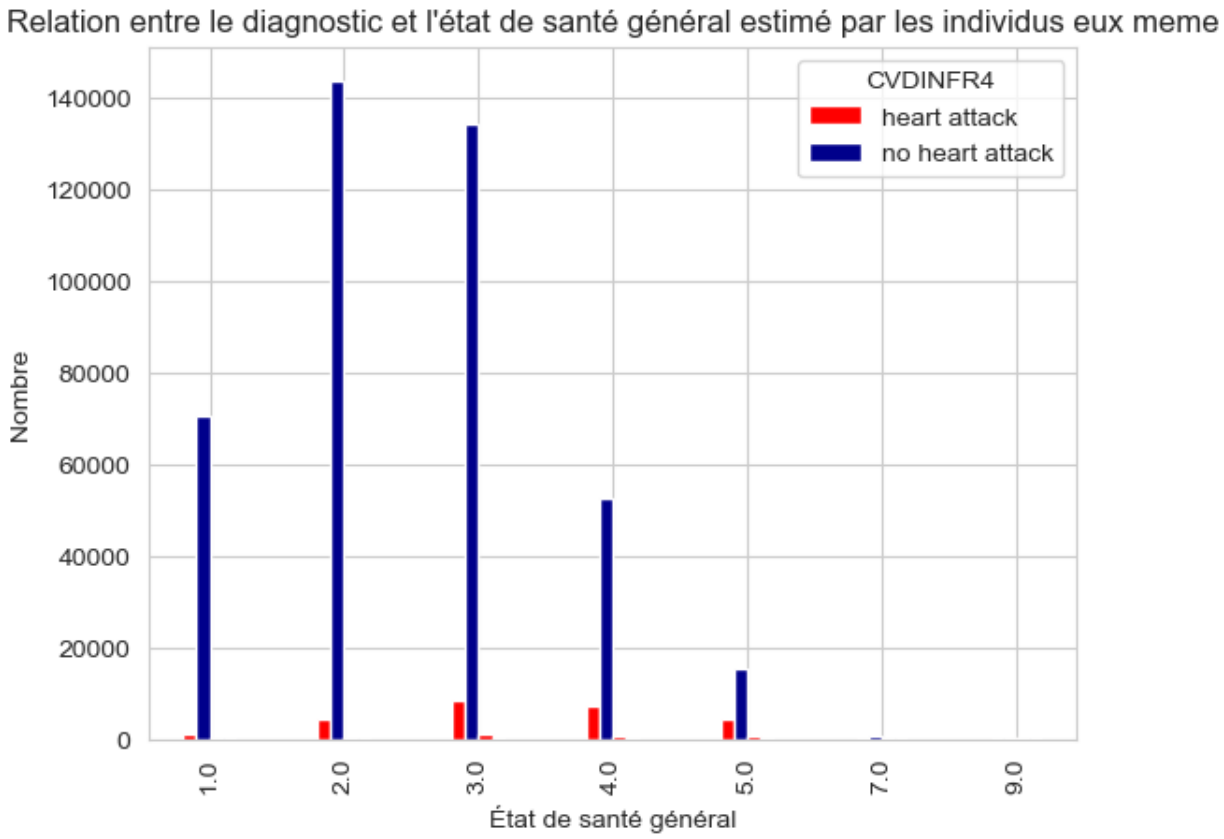
```
[445132 rows x 73 columns]
```

```
health_counts = df['GENHLTH'].value_counts()
sns.set_style("whitegrid")
plt.figure(figsize=(8, 6))
sns.barplot(x=health_counts.index, y=health_counts.values,
color='steelblue')
plt.title("Nombre de personnes par niveau de santé générale")
plt.xlabel("Santé générale")
plt.ylabel("Nombre de personnes")
plt.show()
```




```
combien_de_malades = df.groupby('GENHLTH')
['CVDINFR4'].value_counts().unstack(fill_value=0) # Fréquence de
chaque diagnostic par rapport à leur état de santé général
plt.figure(figsize=(10, 6))
combien_de_malades.plot(kind='bar', color=['red', 'darkblue'],
width=0.4)
plt.title("Relation entre le diagnostic et l'état de santé général
estimé par les individus eux meme")
plt.xlabel("État de santé général")
plt.ylabel("Nombre")
plt.legend(title='CVDINFR4', labels=["heart attack", "no heart
attack"])
plt.show()
print(combien_de_malades)
```

```
<Figure size 1000x600 with 0 Axes>
```



CVDINFR4	1.0	2.0	7.0	9.0
GENHLTH				
1.0	1097	70526	207	48
2.0	4214	143753	409	68
3.0	8295	134255	948	98
4.0	7228	52300	702	43
5.0	4161	15143	416	21
7.0	86	688	34	2
9.0	27	293	15	50

```
import numpy as np

categorical = df.select_dtypes(include=[object])
print(categorical.columns)
```

```
Index([], dtype='object')
```

```
numerical = df.select_dtypes(include=[np.number])
print(numerical.columns)
```

```
Index(['_STATE', 'FMONTH', 'PVTRESD1', 'COLGHOUS', 'STATERE1',
'SEXVAR',
       'GENHLTH', 'PHYSHLTH', 'MENTHLTH', 'PERSDOC3', 'MEDCOST1',
'CHECKUP1',
       'EXERANY2', 'SLEPTIM1', 'LASTDEN4', 'RMVTETH4', 'CVDINFR4',
```

```
'CVDCRHD4',
       'CVDSTRK3', 'ASTHMA3', 'ASTHNOW', 'CHCSCNC1', 'CHCOCNC1',
'CHCCOPD3',
       'ADDEPEV3', 'CHCKDNY2', 'HAVARTH4', 'DIABETE4', 'DIABAGE4',
'MARITAL',
       'EDUCA', 'NUMPHON4', 'CPDEMO1C', 'VETERAN3', 'EMPLOY1',
'CHILDREN',
       'INCOME3', 'PREGNANT', 'DEAF', 'BLIND', 'DIFFWALK', 'SMOKDAY2',
       'USENOW3', 'ECIGNOW2', 'LCSNUMCG', 'ALCDAY4', 'DIABTYPE',
'INSULIN1',
       'COPDSMOK', 'CNCRAGE', 'CNCRTYP2', 'CIMEMLOS', 'ACEDEPRS',
'ACEDRINK',
       'ACEDRUGS', 'ACEHURT1', 'LSATISFY', 'EMTSUPRT', 'SDHISOLT',
'SDHFOOD1',
       'SDHBILLS', 'SDHSTRE1', 'MARIJAN1', 'USEMRJN4', 'TYPCNTR9',
'_AGE80',
       'HTM4', 'WTKG3', '_BMI5', '_YRSSMOK', '_PACKDAY', '_PACKYRS',
       '_DRNKWK2'],
      dtype='object')
```

```
df2 = df.rename(columns={'_STATE': 'state', 'FMONTH': 'file_month',
'PVTRESD1': 'private_residence', 'COLGHOUS': 'college_housing',
'STATERE1': 'resident_of_state', 'SEXVAR': 'sex_respondant',
'GENHLTH': 'general_health', 'PHYSHLTH': 'physical_health',
'MENTHLTH': 'mental_health', 'PERSDOC3': 'personal_hc_provider',
'MEDCOST1': 'not_afford_doc', 'CHECKUP1': 'last_checkup', 'EXERANY2':
'exercise_last_30_days', 'SLEPTIM1': 'sleep_time', 'LASTDEN4':
'last_dentist_checkup', 'RMVTETH4': 'num_permanent_teeth_removed',
'CVDINFR4': 'diagnosed_heart_attack', 'CVDCRHD4':
'diagnosed_angina_chd', 'CVDSTRK3': 'diagnosed_stroke', 'ASTHMA3':
'diagnosed_asthma', 'ASTHNOW': 'still_have_asthma', 'CHCSCNC1':
'told_had_skin_cancer', 'CHCOCNC1': 'told_had_melanoma_or_cancer',
'CHCCOPD3': 'told_had_bronchitis_emphysema_copd', 'ADDEPEV3':
'told_had_depressive_disorder', 'CHCKDNY2': 'told_had_kidney_disease',
'HAVARTH4': 'told_had_arthritis', 'DIABETE4': 'told_had_diabetes',
'MARITAL': 'marital_status', 'EDUCA': 'educational_level', 'VETERAN3':
'veteran', 'EMPLOY1': 'employment_status', 'CHILDREN': 'num_children',
'INCOME3': 'income_level', 'PREGNANT': 'pregnant', 'DEAF': 'deaf',
'BLIND': 'blind', 'DIFFWALK': 'difficulty_walking', 'SMOKDAY2':
'smoking_days', 'USENOW3': 'snus_chemma', 'ECIGNOW2': 'e_cigs_vaping',
'LCSNUMCG': 'cigarettes_a_day', 'ALCDAY4': 'alcohol_last_30',
'DIABTYPE': 'diabetes_type', 'INSULIN1': 'taking_insulin', 'COPDSMOK':
'years_smoking_tobacco', 'CNCRAGE': 'cancer_age', 'CNCRTYP2':
'cancer_type', 'CIMEMLOS': 'memory_loss', 'ACEDEPRS':
'living_with_depressed', 'ACEDRINK': 'living_with_alcoholic',
'ACEDRUGS': 'living_with_drogué', 'ACEHURT1':
'parent_hirt_physically', 'LSATISFY': 'life_satisfaction', 'EMTSUPRT':
'got_emotional_support', 'SDHISOLT': 'feel_socially_isolated',
'SDHFOOD1':'food_didnt_last', 'SDHBILLS': 'not_able_pay_bills',
'SDHSTRE1': 'stress', 'MARIJAN1': 'used_marijuana', 'TYPCNTR9':
```

```
'contraception_method', 'HTM4': 'height', 'WTKG3':'weight', '_BMI5':
'BMI', '_YRSSMOK': 'num_smoking_years', '_PACKDAY': 'packs_cigs_day',
'_PACKYRS': 'packs_cigs_years', '_DRNKWK2': 'alcohol_per_week'})

print(df['DIABAGE4']) #NaN values
print(df['NUMPHON4']) #NaN values except the first 2
print(df['CPDEMO1C']) #not in the code book
print(df['USEMRJN4']) #NaN values
```

```
0         80.0
1          NaN
2          NaN
3          NaN
4          NaN
          ...
445127     NaN
445128     NaN
445129     NaN
445130     NaN
445131     NaN
Name: DIABAGE4, Length: 445132, dtype: float64
0         1.0
1         2.0
2         NaN
3         NaN
4         NaN
         ...
445127    NaN
445128    NaN
445129    NaN
445130    NaN
445131    NaN
Name: NUMPHON4, Length: 445132, dtype: float64
0         2.0
1         1.0
2         1.0
3         1.0
4         2.0
         ...
445127    2.0
445128    1.0
445129    1.0
445130    1.0
445131    1.0
Name: CPDEMO1C, Length: 445132, dtype: float64
0        NaN
1        NaN
2        NaN
3        NaN
4        NaN
```

```
          ..
445127   NaN
445128   NaN
445129   NaN
445130   NaN
445131   NaN
Name: USEMRJN4, Length: 445132, dtype: float64

print(df2)

        state  file_month  private_residence  college_housing  \
0         1.0         1.0                1.0              NaN
1         1.0         1.0                1.0              NaN
2         1.0         1.0                1.0              NaN
3         1.0         1.0                1.0              NaN
4         1.0         1.0                1.0              NaN
...       ...         ...                ...              ...
445127   78.0        11.0                NaN              NaN
445128   78.0        11.0                NaN              NaN
445129   78.0        11.0                NaN              NaN
445130   78.0        11.0                NaN              NaN
445131   78.0        11.0                NaN              NaN

        resident_of_state  sex_respondant  general_health
physical_health  \
0                     1.0             2.0             2.0
88.0
1                     1.0             2.0             1.0
88.0
2                     1.0             2.0             2.0
2.0
3                     1.0             2.0             1.0
88.0
4                     1.0             2.0             4.0
2.0
...                   ...             ...             ...
...
445127                NaN             2.0             3.0
88.0
445128                NaN             2.0             1.0
2.0
445129                NaN             2.0             5.0
30.0
445130                NaN             1.0             2.0
88.0
445131                NaN             1.0             2.0
88.0

        mental_health  personal_hc_provider  ...  USEMRJN4  \
0                88.0                   1.0  ...       NaN
```

```
1                 88.0                    2.0  ...       NaN
2                  3.0                    1.0  ...       NaN
3                 88.0                    1.0  ...       NaN
4                 88.0                    2.0  ...       NaN
...                ...                    ...  ...       ...
445127             3.0                    3.0  ...       NaN
445128             2.0                    2.0  ...       NaN
445129            30.0                    3.0  ...       NaN
445130            88.0                    2.0  ...       NaN
445131             1.0                    3.0  ...       NaN

        contraception_method  _AGE80  height   weight     BMI  \
0                        NaN    80.0     NaN      NaN     NaN
1                        NaN    80.0   160.0   6804.0  2657.0
2                        NaN    56.0   157.0   6350.0  2561.0
3                        NaN    73.0   165.0   6350.0  2330.0
4                        NaN    43.0   157.0   5398.0  2177.0
...                      ...     ...     ...      ...     ...
445127                   NaN    19.0   165.0   6985.0  2563.0
445128                   NaN    51.0   170.0   8301.0  2866.0
445129                   NaN    65.0   170.0   4990.0  1723.0
445130                   NaN    73.0   183.0  10886.0  3255.0
445131                   NaN    42.0   168.0   6350.0  2260.0

        num_smoking_years  packs_cigs_day  packs_cigs_years
alcohol_per_week
0                     NaN             NaN               NaN
5.397605e-79
1                     NaN             NaN               NaN
5.397605e-79
2                     NaN             NaN               NaN
5.397605e-79
3                    56.0             0.1               6.0
5.397605e-79
4                     NaN             NaN               NaN
1.400000e+02
...                   ...             ...               ...
...
445127                NaN             NaN               NaN
9.990000e+04
445128                NaN             NaN               NaN
5.397605e-79
445129               44.0             1.0              44.0
9.990000e+04
445130                NaN             NaN               NaN
5.397605e-79
445131                NaN             NaN               NaN
9.990000e+04

[445132 rows x 73 columns]
```

```
df2.to_csv("second_clean.csv", sep=',', index=False)


df3 = pd.read_csv("C:\\Users\\shera\\Downloads\\second_clean00.csv")
print(df3)
```

```
        state  file_month  private_residence  college_housing  \
0         1.0         1.0                1.0              NaN
1         1.0         1.0                1.0              NaN
2         1.0         1.0                1.0              NaN
3         1.0         1.0                1.0              NaN
4         1.0         1.0                1.0              NaN
...       ...         ...                ...              ...
445127   78.0        11.0                NaN              NaN
445128   78.0        11.0                NaN              NaN
445129   78.0        11.0                NaN              NaN
445130   78.0        11.0                NaN              NaN
445131   78.0        11.0                NaN              NaN

        resident_of_state  sex_respondant  general_health
physical_health  \
0                     1.0             2.0             2.0
88.0
1                     1.0             2.0             1.0
88.0
2                     1.0             2.0             2.0
2.0
3                     1.0             2.0             1.0
88.0
4                     1.0             2.0             4.0
2.0
...                   ...             ...             ...
...
445127                NaN             2.0             3.0
88.0
445128                NaN             2.0             1.0
2.0
445129                NaN             2.0             5.0
30.0
445130                NaN             1.0             2.0
88.0
445131                NaN             1.0             2.0
88.0

        mental_health  personal_hc_provider  ...  USEMRJN4  \
0                88.0                   1.0  ...       NaN
1                88.0                   2.0  ...       NaN
2                 3.0                   1.0  ...       NaN
3                88.0                   1.0  ...       NaN
4                88.0                   2.0  ...       NaN
```

```
...                 ...                   ...  ...       ...
445127              3.0                   3.0  ...       NaN
445128              2.0                   2.0  ...       NaN
445129             30.0                   3.0  ...       NaN
445130             88.0                   2.0  ...       NaN
445131              1.0                   3.0  ...       NaN

        contraception_method  _AGE80  height   weight     BMI  \
0                        NaN    80.0     NaN      NaN     NaN
1                        NaN    80.0   160.0   6804.0  2657.0
2                        NaN    56.0   157.0   6350.0  2561.0
3                        NaN    73.0   165.0   6350.0  2330.0
4                        NaN    43.0   157.0   5398.0  2177.0
...                      ...     ...     ...      ...     ...
445127                   NaN    19.0   165.0   6985.0  2563.0
445128                   NaN    51.0   170.0   8301.0  2866.0
445129                   NaN    65.0   170.0   4990.0  1723.0
445130                   NaN    73.0   183.0  10886.0  3255.0
445131                   NaN    42.0   168.0   6350.0  2260.0

        num_smoking_years  packs_cigs_day  packs_cigs_years
alcohol_per_week
0                     NaN             NaN               NaN
5.397605e-79
1                     NaN             NaN               NaN
5.397605e-79
2                     NaN             NaN               NaN
5.397605e-79
3                    56.0             0.1               6.0
5.397605e-79
4                     NaN             NaN               NaN
1.400000e+02
...                   ...             ...               ...
...
445127                NaN             NaN               NaN
9.990000e+04
445128                NaN             NaN               NaN
5.397605e-79
445129               44.0             1.0              44.0
9.990000e+04
445130                NaN             NaN               NaN
5.397605e-79
445131                NaN             NaN               NaN
9.990000e+04

[445132 rows x 73 columns]
```

```
print(df3.columns)
```

```
Index(['state', 'file_month', 'private_residence', 'college_housing',
       'resident_of_state', 'sex_respondant', 'general_health',
       'physical_health', 'mental_health', 'personal_hc_provider',
       'not_afford_doc', 'last_checkup', 'exercise_last_30_days',
'sleep_time',
       'last_dentist_checkup', 'num_permanent_teeth_removed',
       'diagnosed_heart_attack', 'diagnosed_angina_chd',
'diagnosed_stroke',
       'diagnosed_asthma', 'still_have_asthma',
'told_had_skin_cancer',
       'told_had_melanoma_or_cancer',
'told_had_bronchitis_emphysema_copd',
       'told_had_depressive_disorder', 'told_had_kidney_disease',
       'told_had_arthritis', 'told_had_diabetes', 'DIABAGE4',
'marital_status',
       'educational_level', 'NUMPHON4', 'CPDEMO1C', 'veteran',
       'employment_status', 'num_children', 'income_level',
'pregnant', 'deaf',
       'blind', 'difficulty_walking', 'smoking_days', 'snus_chemma',
       'e_cigs_vaping', 'cigarettes_a_day', 'alcohol_last_30',
'diabetes_type',
       'taking_insulin', 'years_smoking_tobacco', 'cancer_age',
'cancer_type',
       'memory_loss', 'living_with_depressed',
'living_with_alcoholic',
       'living_with_drogué', 'parent_hirt_physically',
'life_satisfaction',
       'got_emotional_support', 'feel_socially_isolated',
'food_didnt_last',
       'not_able_pay_bills', 'stress', 'used_marijuana', 'USEMRJN4',
       'contraception_method', '_AGE80', 'height', 'weight', 'BMI',
       'num_smoking_years', 'packs_cigs_day', 'packs_cigs_years',
       'alcohol_per_week'],
      dtype='object')
```

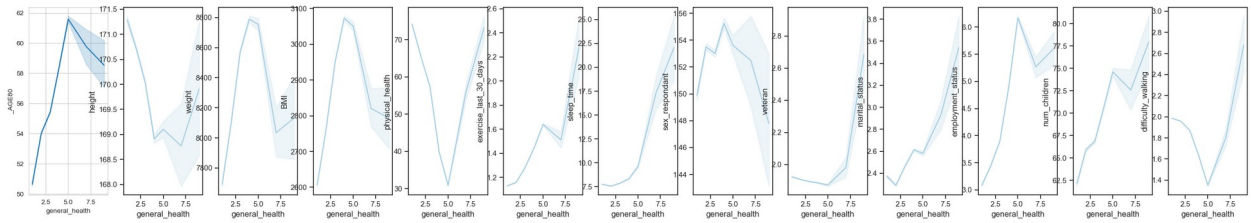
```
df3['_AGE80'].astype(int)
```

```
0         80
1         80
2         56
3         73
4         43
          ..
445127    19
445128    51
445129    65
445130    73
445131    42
Name: _AGE80, Length: 445132, dtype: int32
```

```
df3.describe()[1:]
[list(df3)].T.style.background_gradient(cmap='Blues')
```

```
<pandas.io.formats.style.Styler at 0x1e53efb8850>
```

```
def numeric_features_func(f):
    plt.figure(figsize=(35, 5))
    i = 1
    new = df3.filter(items=['_AGE80', 'height', 'weight', 'BMI',
'physical_health', 'exercise_last_30_days', 'sleep_time',
'sex_respondant', 'veteran', 'marital_status', 'education_level',
'employment_status', 'num_children', 'difficulty_walking'])
    for feature in new.columns:
        plt.subplot(1, 14, i)
        sns.set(palette='Paired')
        sns.set_style("ticks")
        sns.lineplot(y=new[feature], x=df3[f])
        i += 1

numeric_features_func('general_health')
```

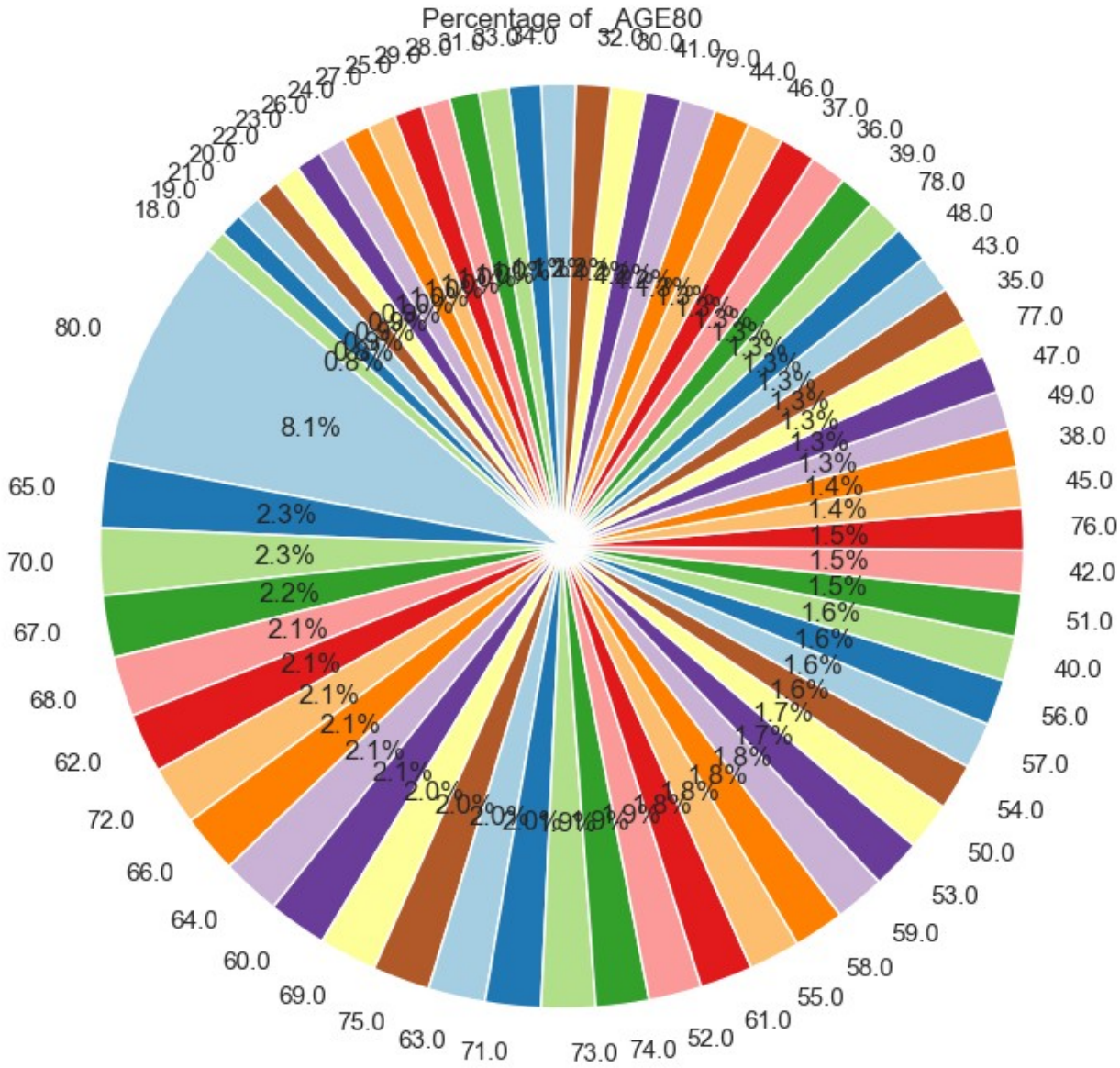


```
df3['physical_health']
```

```
0          88.0
1          88.0
2           2.0
3          88.0
4           2.0
           ...
445127     88.0
445128      2.0
445129     30.0
445130     88.0
445131     88.0
Name: physical_health, Length: 445132, dtype: float64
```

```
import matplotlib.pyplot as plt
```

```
def draw_pie_plot(df, attribute):

    attribute_counts = df3[attribute].value_counts()

    percentages = attribute_counts / len(df3) * 100


    plt.figure(figsize=(8, 8))
    plt.pie(percentages, labels=attribute_counts.index, autopct='%1.1f
%%', startangle=140)
    plt.title(f"Percentage of {attribute}")
    plt.axis('equal')
    plt.show()


attributes_to_plot = ['_AGE80', 'height', 'weight']
for attribute in attributes_to_plot:
    draw_pie_plot(df3, attribute)
```


Percentage of _AGE80
80.0
8.1%
65.0
2.3%
70.0
2.3%
67.0
2.2%
68.0
2.1%
62.0
2.1%
72.0
2.1%
66.0
2.1%
64.0
2.1%
60.0
2.1%
69.0
2.1%
75.0
2.0%
63.0
2.0%
71.0
2.0%
73.0
2.0%
74.0
2.0%
52.0
1.9%
61.0
1.9%
55.0
1.8%
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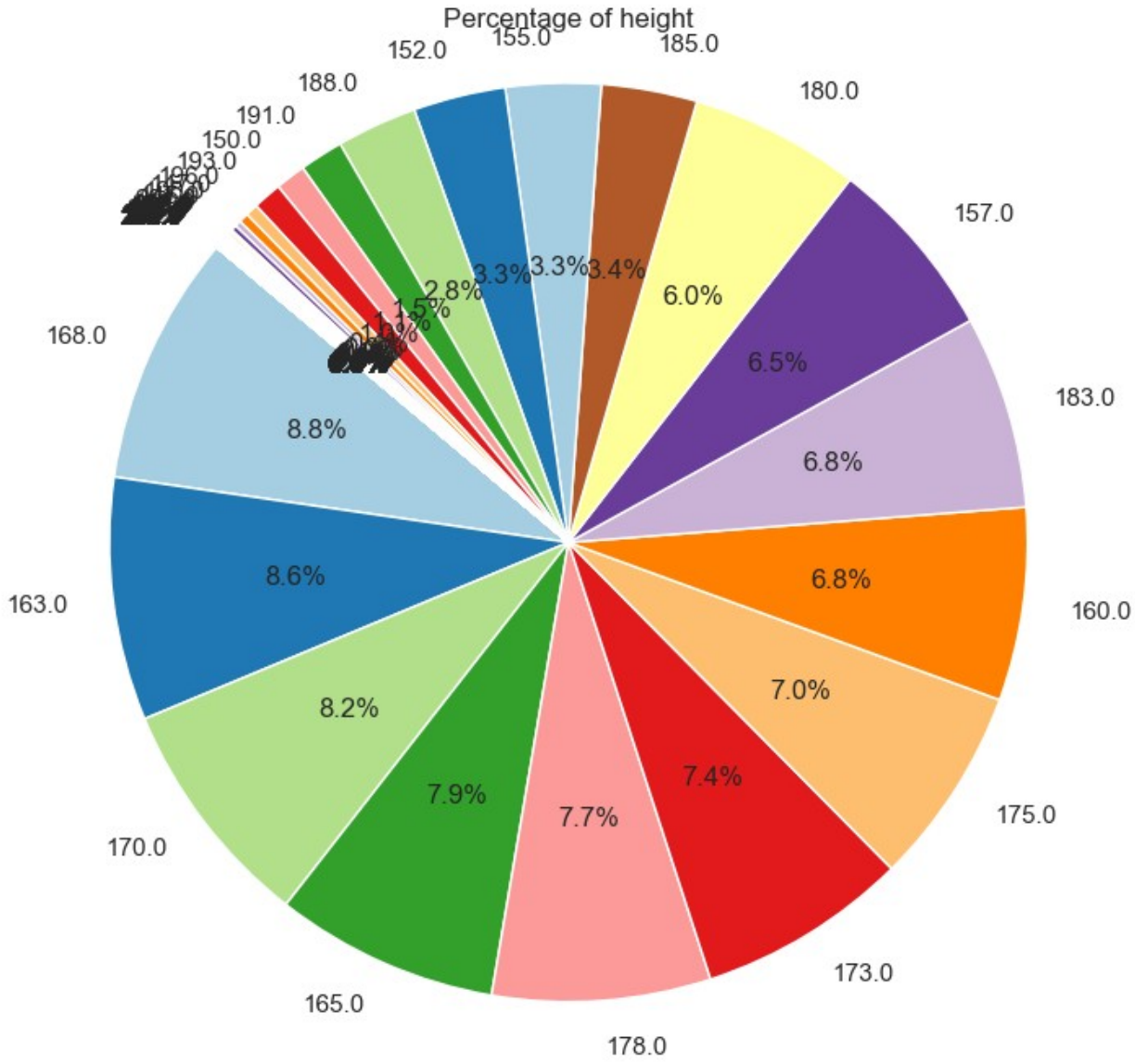
Percentage of height
152.0
155.0
185.0
188.0
180.0
191.0
150.0
193.0
157.0
3.3%
3.3%
3.4%
6.0%
2.8%
1.5%
6.5%
168.0
183.0
8.8%
6.8%
8.6%
6.8%
163.0
160.0
8.2%
7.0%
7.9%
7.4%
7.7%
175.0
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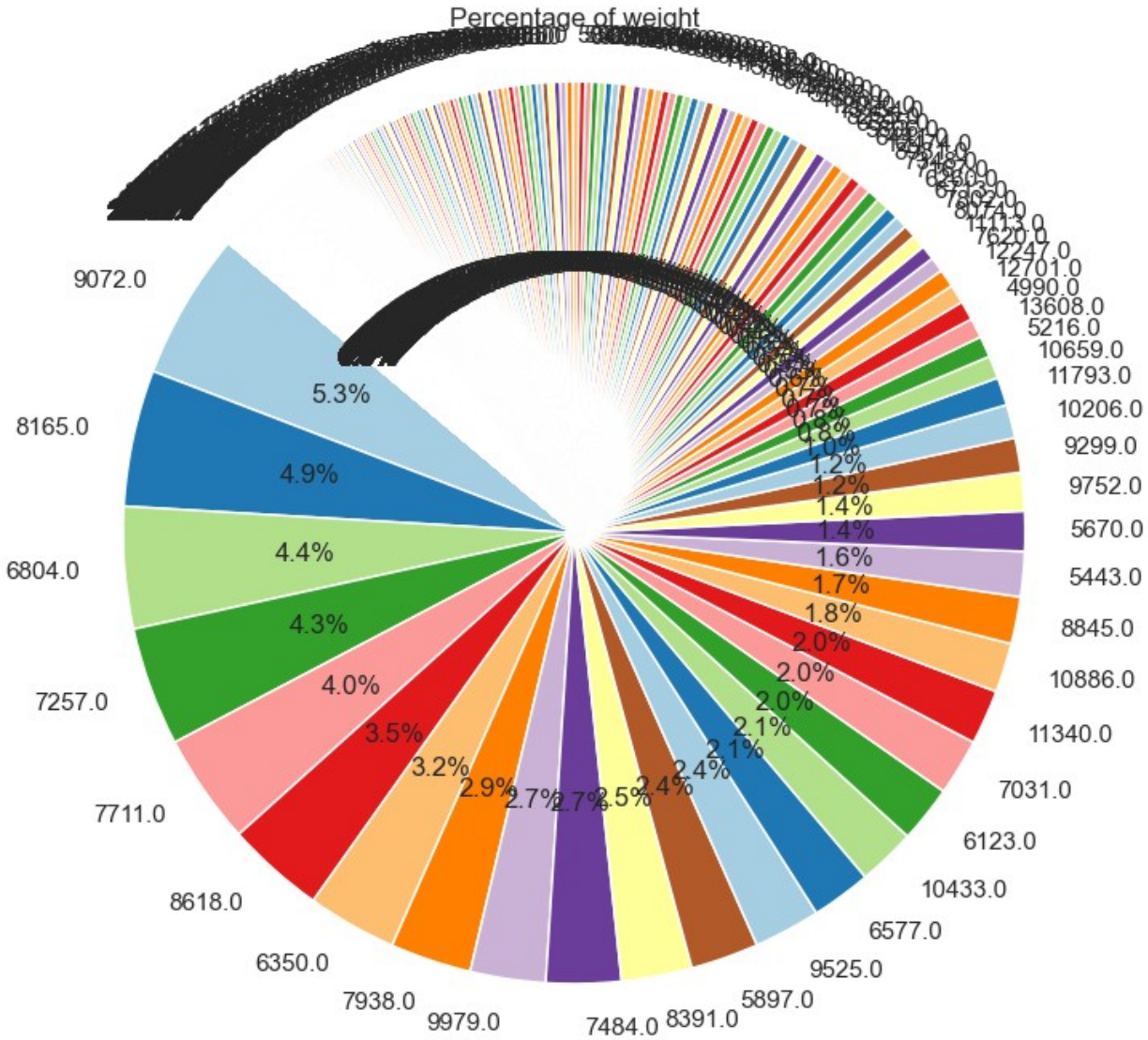
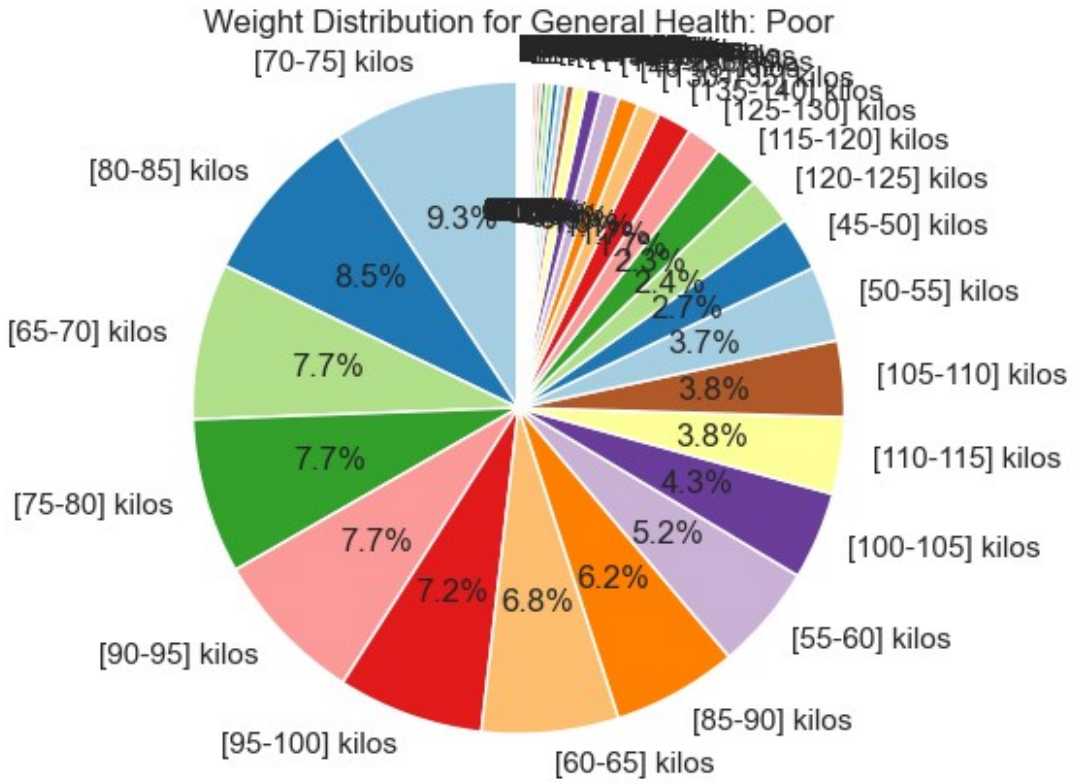
178.0




```
import pandas as pd
import matplotlib.pyplot as plt

def plot_weight_distribution_pie(df):
    df['weight_intervals'] = pd.cut(df['weight'] / 500, bins=range(0,
int(df['weight'].max() / 500) + 1, 1))

    poor_data = df[df['general_health'] == 5]

    weight_distribution =
poor_data['weight_intervals'].value_counts(normalize=True)

    labels = [f"[{int(interval.left * 5)}-{int(interval.right * 5)}]
kilos" for interval in weight_distribution.index]
```

```
    plt.pie(weight_distribution, labels=labels, autopct='%1.1f%%',
startangle=90)
    plt.axis('equal')
    plt.title('Weight Distribution for General Health: Poor')
    plt.show()


plot_weight_distribution_pie(df3)
```




```
df3[df3['weight'] < 90]
```

```
Empty DataFrame
Columns: [state, file_month, private_residence, college_housing,
resident_of_state, sex_respondant, general_health, physical_health,
mental_health, personal_hc_provider, not_afford_doc, last_checkup,
exercise_last_30_days, sleep_time, last_dentist_checkup,
num_permanent_teeth_removed, diagnosed_heart_attack,
diagnosed_angina_chd, diagnosed_stroke, diagnosed_asthma,
still_have_asthma, told_had_skin_cancer, told_had_melanoma_or_cancer,
told_had_bronchitis_emphysema_copd, told_had_depressive_disorder,
told_had_kidney_disease, told_had_arthritis, told_had_diabetes,
DIABAGE4, marital_status, educational_level, NUMPHON4, CPDEMO1C,
veteran, employment_status, num_children, income_level, pregnant,
deaf, blind, difficulty_walking, smoking_days, snus_chemma,
e_cigs_vaping, cigarettes_a_day, alcohol_last_30, diabetes_type,
```

```
taking_insulin, years_smoking_tobacco, cancer_age, cancer_type,
memory_loss, living_with_depressed, living_with_alcoholic,
living_with_drogué, parent_hirt_physically, life_satisfaction,
got_emotional_support, feel_socially_isolated, food_didnt_last,
not_able_pay_bills, stress, used_marijuana, USEMRJN4,
contraception_method, _AGE80, height, weight, BMI, num_smoking_years,
packs_cigs_day, packs_cigs_years, alcohol_per_week, weight_intervals]
Index: []

[0 rows x 74 columns]
```