In [89]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

In [90]: #Music & Mental Health Survey Results
data=pd.read_csv('mxmh_survey_results.csv')

In [91]: data

Out[91]:

:	Timestamp	Age	Primary streaming service	Hours per day	While working	Instrumentalist	Composer	Fav genre	Exploratory	Foreign languages	 Frequency [R&B]	Frequency [Rap]	F
- 0	8/27/2022 19:29:02	18.0	Spotify	3.0	Yes	Yes	Yes	Latin	Yes	Yes	 Sometimes	Very frequently	
1	8/27/2022 19:57:31	63.0	Pandora	1.5	Yes	No	No	Rock	Yes	No	 Sometimes	Rarely	
2	8/27/2022 21:28:18	18.0	Spotify	4.0	No	No	No	Video game music	No	Yes	 Never	Rarely	
3	8/27/2022 21:40:40	61.0	YouTube Music	2.5	Yes	No	Yes	Jazz	Yes	Yes	 Sometimes	Never	
4	8/27/2022 21:54:47	18.0	Spotify	4.0	Yes	No	No	R&B	Yes	No	 Very frequently	Very frequently	
731	10/30/2022 14:37:28	17.0	Spotify	2.0	Yes	Yes	No	Rock	Yes	Yes	 Never	Rarely	,
732	11/1/2022 22:26:42	18.0	Spotify	1.0	Yes	Yes	No	Pop	Yes	Yes	 Never	Never	S
733	11/3/2022 23:24:38	19.0	Other streaming service	6.0	Yes	No	Yes	Rap	Yes	No	 Sometimes	Sometimes	
734	11/4/2022 17:31:47	19.0	Spotify	5.0	Yes	Yes	No	Classical	No	No	 Never	Never	
735	11/9/2022 1:55:20	29.0	YouTube Music	2.0	Yes	No	No	Hip hop	Yes	Yes	 Very frequently	Very frequently	

736 rows × 33 columns

In [92]: data.head()

Out[92]:

:	Timestamp	Age	Primary streaming service	Hours per day	While working	Instrumentalist	Composer	Fav genre	Exploratory	Foreign languages	 Frequency [R&B]	Frequency [Rap]	Freque [R
	o 8/27/2022 19:29:02	18.0	Spotify	3.0	Yes	Yes	Yes	Latin	Yes	Yes	 Sometimes	Very frequently	N
	1 8/27/2022 19:57:31	63.0	Pandora	1.5	Yes	No	No	Rock	Yes	No	 Sometimes	Rarely	frequ
	8/27/2022 21:28:18	18.0	Spotify	4.0	No	No	No	Video game music	No	Yes	 Never	Rarely	R
	3 8/27/2022 21:40:40	61.0	YouTube Music	2.5	Yes	No	Yes	Jazz	Yes	Yes	 Sometimes	Never	N
	8/27/2022 21:54:47	18.0	Spotify	4.0	Yes	No	No	R&B	Yes	No	 Very frequently	Very frequently	N

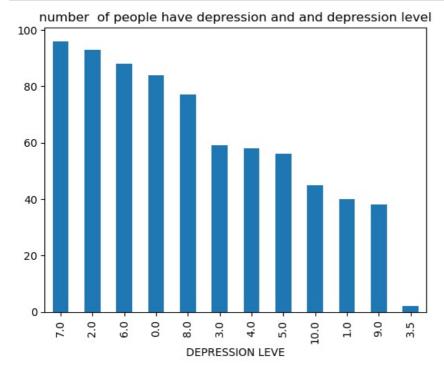
5 rows × 33 columns

In [93]: #information about the dataset data.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 736 entries, 0 to 735
Data columns (total 33 columns):
#
     Column
                                    Non-Null Count Dtype
                                     -----
0
     Timestamp
                                    736 non-null
                                                      object
 1
     Age
                                     735 non-null
                                                      float64
 2
     Primary streaming service
                                    735 non-null
                                                     object
 3
     Hours per day
                                    736 non-null
                                                     float64
 4
     While working
                                    733 non-null
                                                      object
 5
     Instrumentalist
                                    732 non-null
                                                     object
                                    735 non-null
 6
     Composer
                                                     object
 7
     Fav genre
                                    736 non-null
                                                      object
 8
                                    736 non-null
     Exploratory
                                                      object
     Foreign languages
 9
                                    732 non-null
                                                     obiect
 10
     RPM
                                    629 non-null
                                                      float64
 11
     Frequency [Classical]
                                    736 non-null
                                                      object
     Frequency [Country]
                                    736 non-null
 12
                                                     object
    Frequency [EDM]
Frequency [Folk]
 13
                                    736 non-null
                                                     object
 14
                                    736 non-null
                                                      object
 15
     Frequency [Gospel]
                                    736 non-null
                                                     object
     Frequency [Hip hop]
Frequency [Jazz]
 16
                                    736 non-null
                                                     obiect
                                    736 non-null
 17
                                                     object
 18
     Frequency [K pop]
                                    736 non-null
                                                      object
 19
     Frequency [Latin]
                                    736 non-null
                                                     object
     Frequency [Lofi]
 20
                                    736 non-null
                                                     object
 21
     Frequency [Metal]
                                    736 non-null
                                                      object
 22
     Frequency [Pop]
                                    736 non-null
                                                      object
     Frequency [R&B]
 23
                                    736 non-null
                                                     object
 24
     Frequency [Rap]
                                    736 non-null
                                                      object
 25
     Frequency [Rock]
                                    736 non-null
                                                      object
     Frequency [Video game music] 736 non-null
 26
                                                      object
 27
     Anxiety
                                    736 non-null
                                                      float64
 28
     Depression
                                    736 non-null
                                                      float64
 29
     Insomnia
                                    736 non-null
                                                      float64
 30
     0CD
                                    736 non-null
                                                      float64
 31 Music effects
                                    728 non-null
                                                     object
32 Permissions
                                    736 non-null
                                                      object
dtypes: float64(7), object(26)
```

memory usage: 189.9+ KB

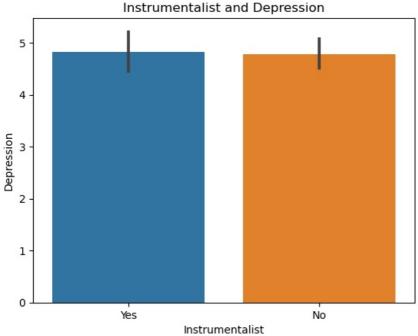
#number of people have depression and its level
plt.title("number of people have depression and and depression level")
plt.xlabel("DEPRESSION LEVE")
data["Depression"].value_counts().plot(kind="bar");



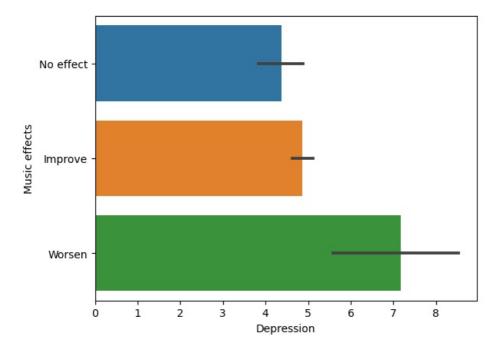
```
In [102... """if age is increase and also hours of listen a music is decreased.
"""
data.groupby("Age")["Hours per day"].mean()
```

```
Out[102]: Age
          10.0
                    2.000000
          12.0
                    1.500000
          13.0
                    3.687500
                    4.647059
          14.0
                    3.857143
          15.0
          72.0
                    6.000000
          73.0
                    3.000000
                    1.000000
          74.0
          80.0
                    3.000000
          89.0
                   24.000000
          Name: Hours per day, Length: 61, dtype: float64
```

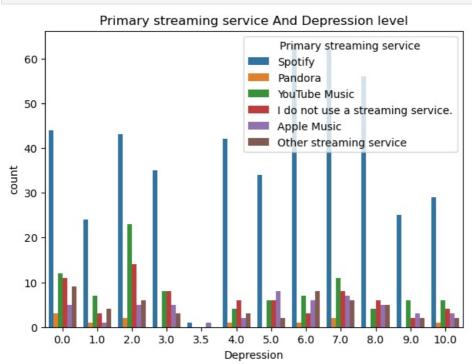
```
In [105... plt.title("Instrumentalist and Depression")
    sns.barplot(x=data["Instrumentalist"],y=data["Depression"]);
"Instruments has no changes makeing in depression .so instruments and depression has no co-realations"
```



```
In [98]: data[data["Instrumentalist"]=="Yes"]["Depression"]
                 0.0
         0
Out[98]:
         5
                8.0
         6
                8.0
         10
                7.0
                4.0
         14
         721
                8.0
         728
                3.0
         731
                6.0
         732
                2.0
         734
                3.0
         Name: Depression, Length: 235, dtype: float64
In [79]: sns.barplot(x=data["Depression"],y=data["Music effects"]);
          """Music effects has to be change the depression levels its have corelation"""
```



```
In [66]: plt.figure(figsize=(7,5))
   plt.title("Primary streaming service And Depression level")
   sns.countplot(x="Depression",hue="Primary streaming service",data=data);
   """people have any depression time they are mosty listening music in spotify even though non depression time al
```



```
In [ ]: #conclusion :
    """Music has to be change mental health and when they are in depression they listen music..."""
In [ ]:
```

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