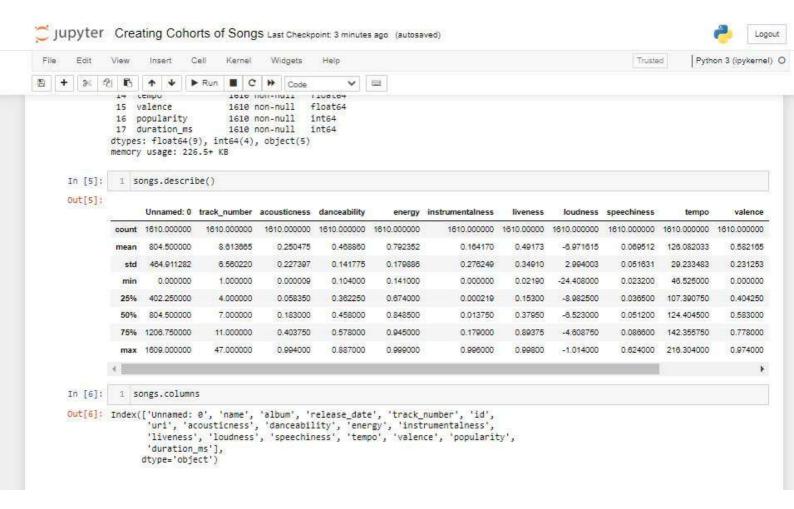
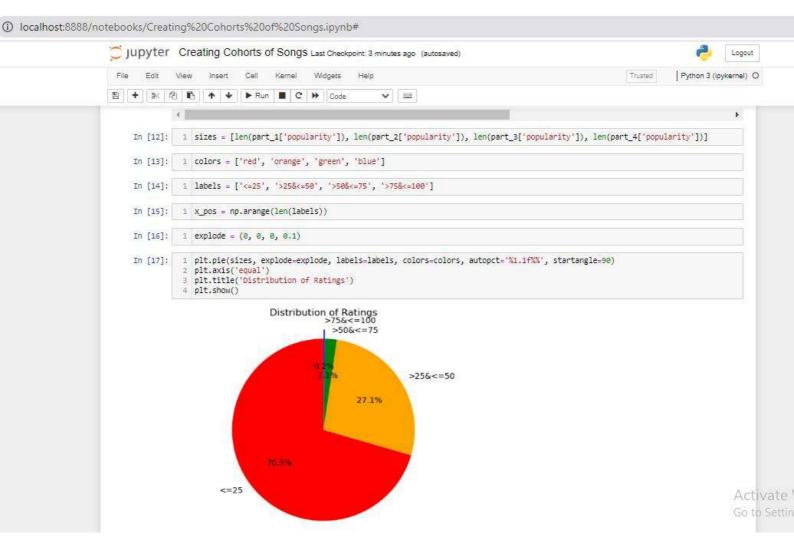
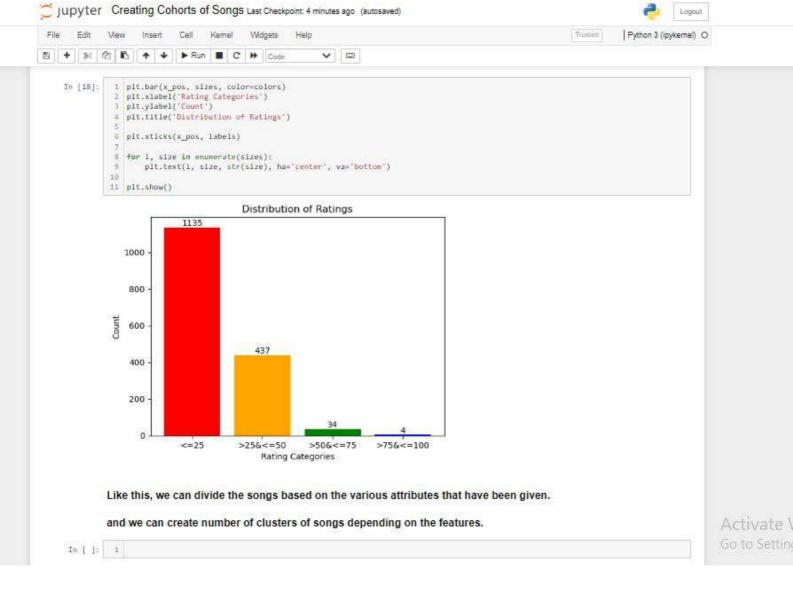
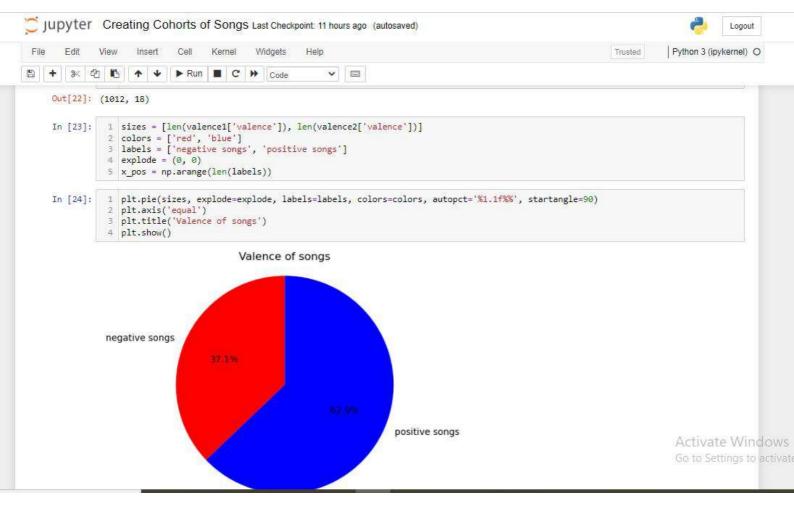


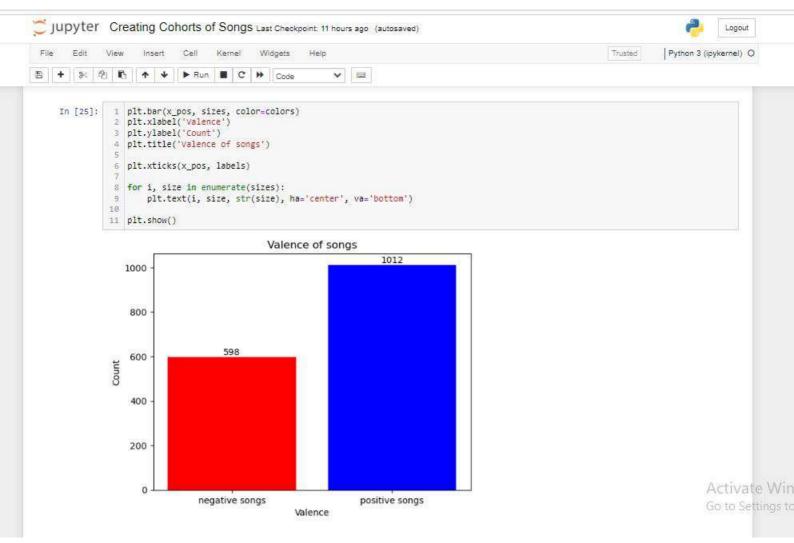
```
In [3]:
         1 songs.shape
Out[3]: (1610, 18)
In [4]:
            songs.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 1610 entries, 0 to 1609
        Data columns (total 18 columns):
             Column
                              Non-Null Count Dtype
                              ---
             Unnamed: 0
                                             int64
                              1610 non-null
         0
         1
             name
                              1610 non-null object
         2
             album
                              1610 non-null object
             release_date
         3
                              1610 non-null object
         4
             track number
                              1610 non-null int64
         5
             id
                              1610 non-null object
         6
             uri
                              1610 non-null object
         7
             acousticness
                              1610 non-null float64
             danceability
                              1610 non-null float64
         8
         9
             energy
                              1610 non-null float64
         10 instrumentalness 1610 non-null float64
         11 liveness
                             1610 non-null float64
         12 loudness
                             1610 non-null float64
         13 speechiness
                             1610 non-null float64
         14 tempo
                             1610 non-null float64
         15 valence
                             1610 non-null float64
         16 popularity
                             1610 non-null
                                            int64
         17 duration ms
                              1610 non-null
                                            int64
        dtypes: float64(9), int64(4), object(5)
        memory usage: 226.5+ KB
```

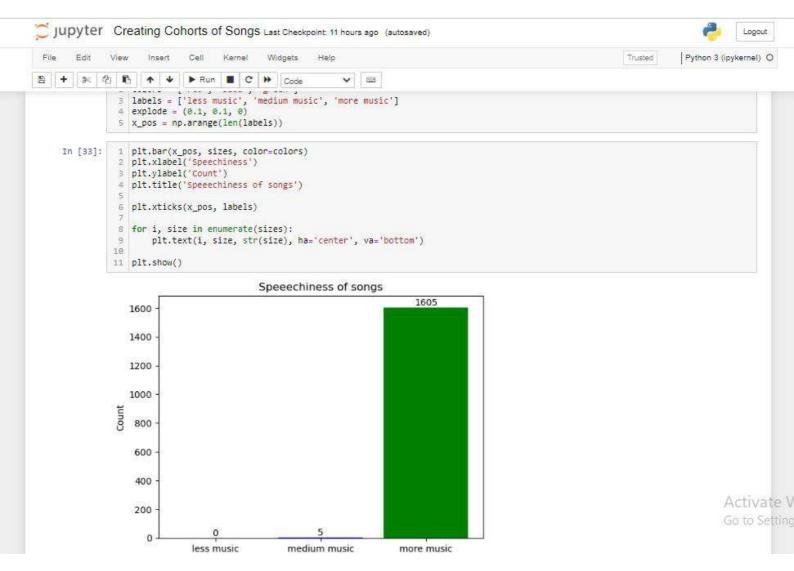


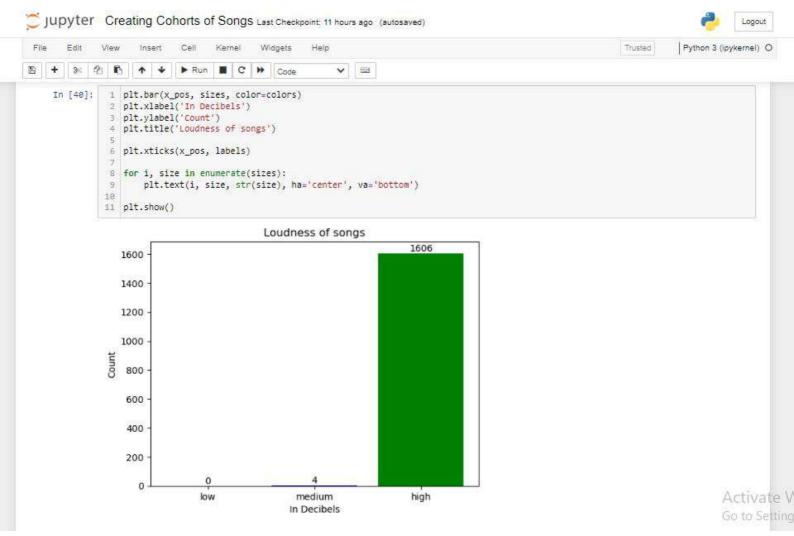


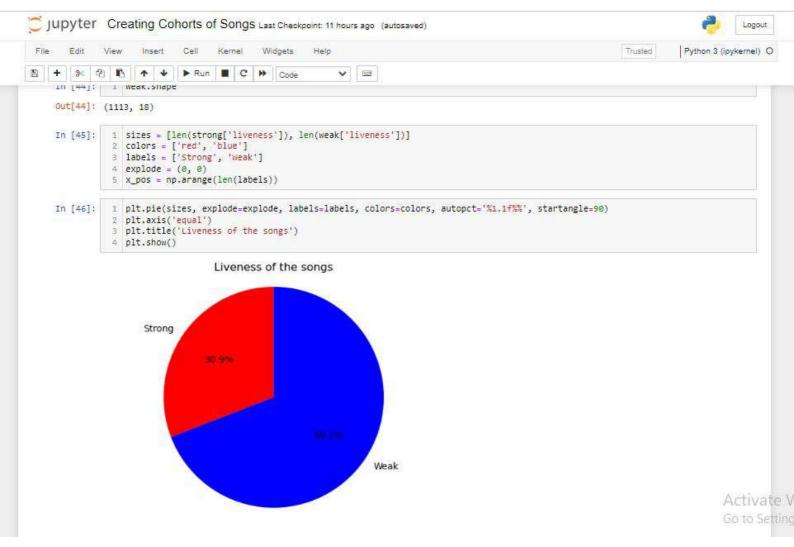


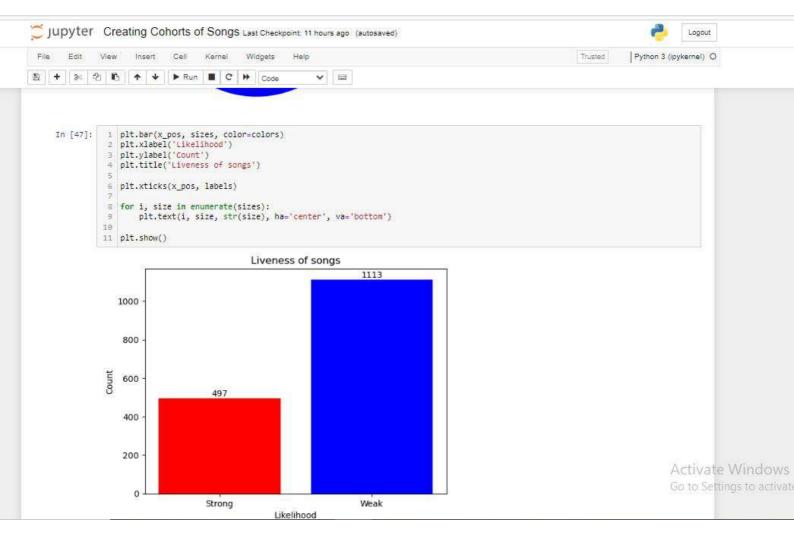


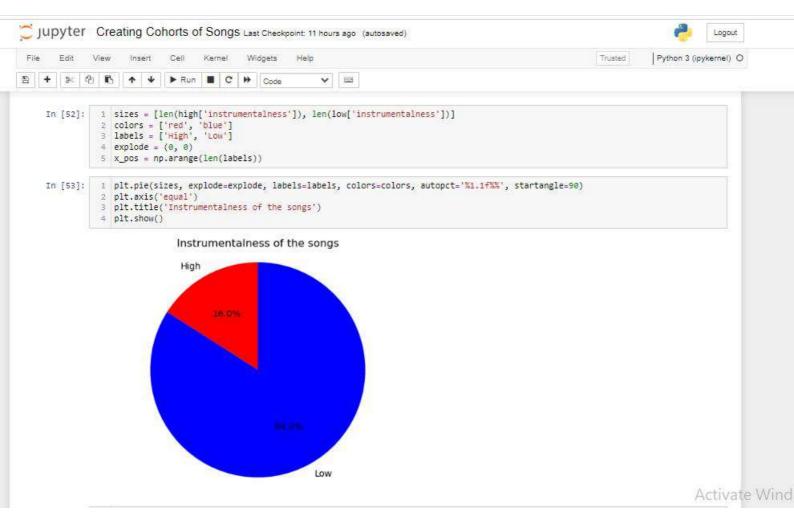


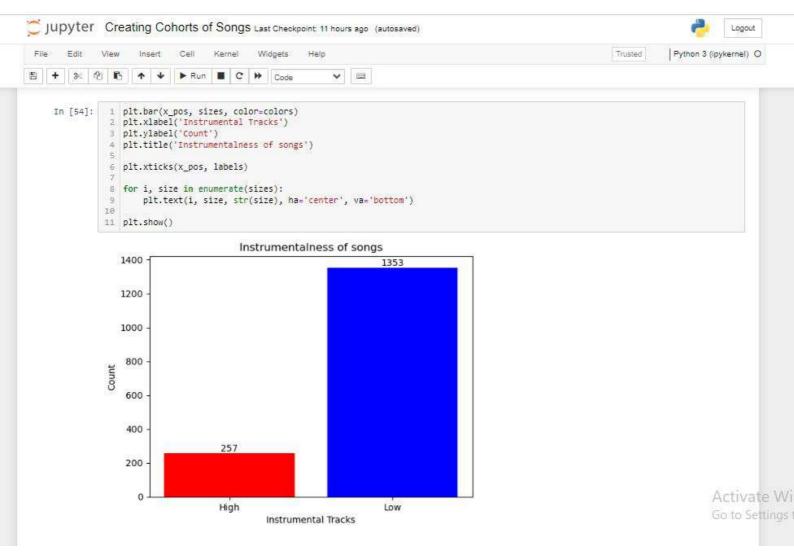


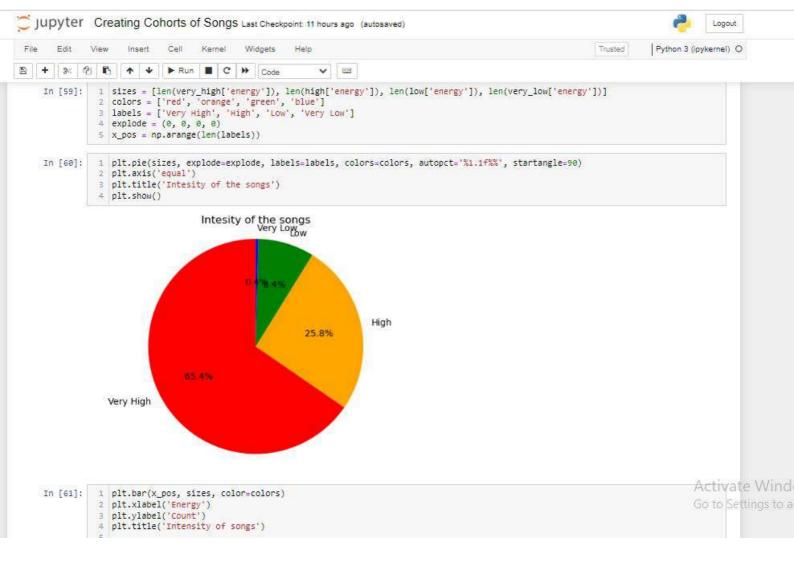


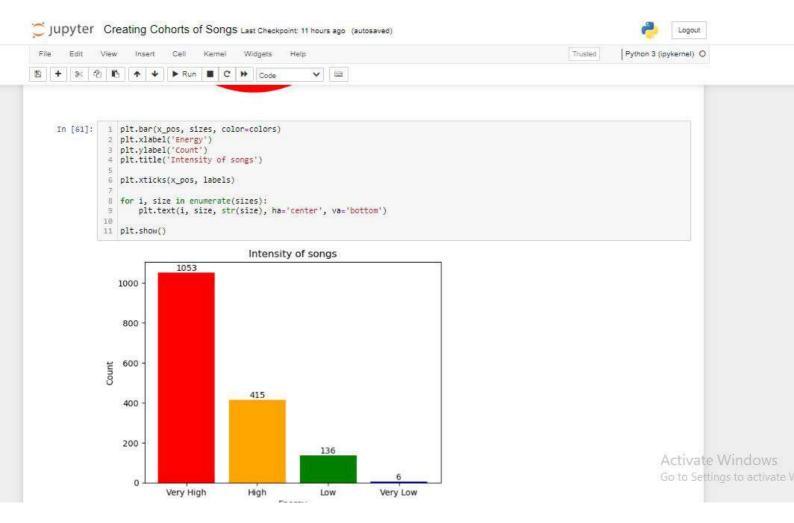


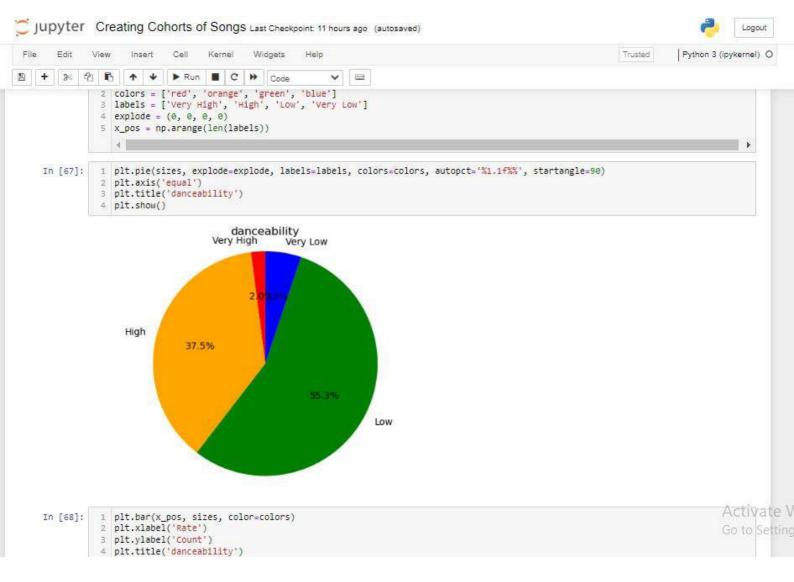


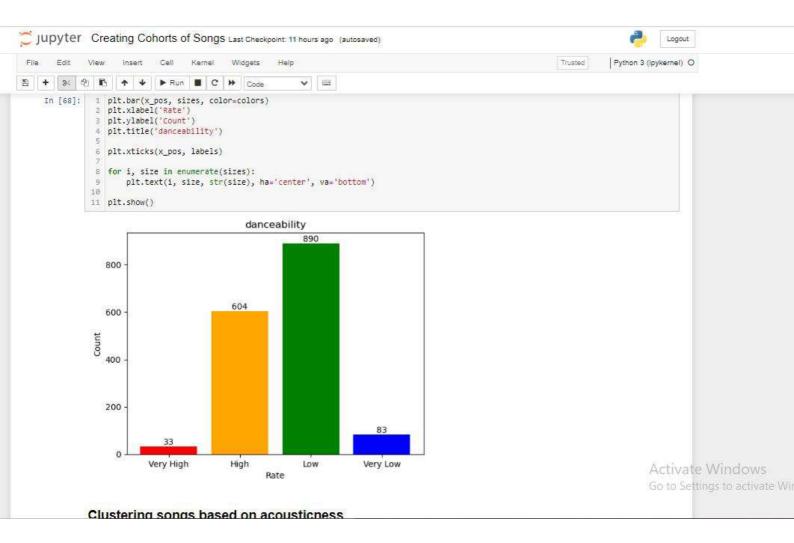


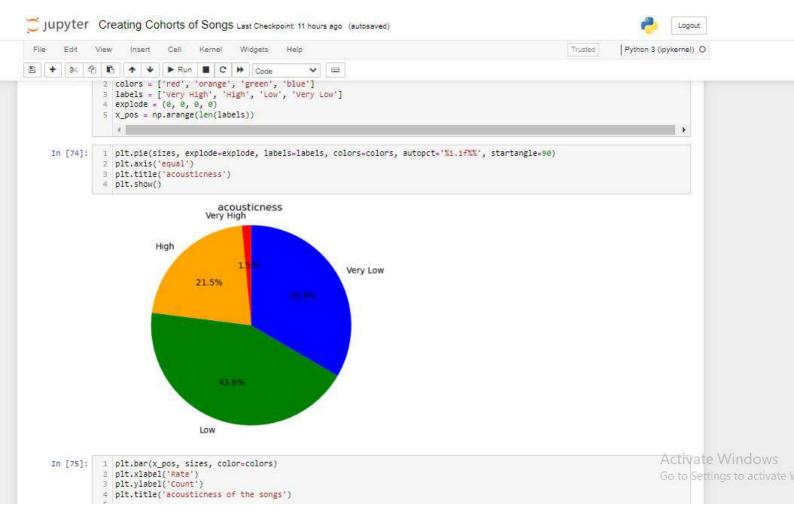


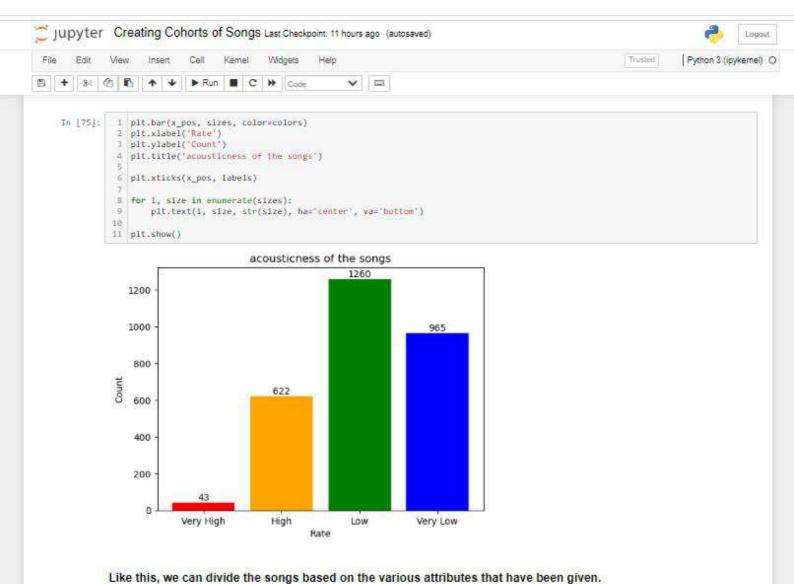




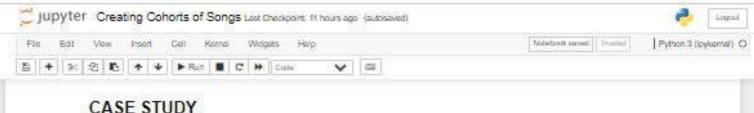








and we can create number of clusters of songs depending on the features.



Let's create a list of songs where the conditions for attributes of the songs are given below

Popularity - Medium

Valence - Positive

Speechiness - Less Speech and more Music

Loudness - High

Liveness - Strong

Instrumentalness - Moderate

Energy - High

Danceability - Medium

Acousticness - Medium

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40 [76]4
  5
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Out [78]
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-	Unnamed: 0	Harrie	elbum	release date	treck number	id	un	acquaticness	the
18	16	Fix Cery Nock TV Nock TV	Licked Live In NYC	2022-06-10	19	TW66/5UD/S/534WWJOAN	agxilly track: TMMbov6UDV3a/SS4WWUDAN	0.676	
811	m	Sent Me Up - Line al Wembley Sledker 1982	fados You (Super Delute)	2021-10-22	.24	476MctPXse8h7sOuHtLv6A	apolify: treck 41 to Mote RNaadh Tu Olyhtii. VSA	0.489	
EI	281	Not hade Away - Liye	Voodoo Loonge Unout (Live)	2018-11-16	2	NEBUGHBOSHOSHID/SEXEC	apolity leach, 15:009H50BITOSHHD (nEXT C	0.409	
109	2926	Noull Faces Anney + Live	Upostoo: Louisige Usrouf (Livie)	2018-11-18			apolity track 8YCOHU.8CClig/Cloquit9CWO	0,409	
159	850	Intro (Take The A Iron) - Live I Parmaniered 2009	Stat Life	1982-08-01	1	2cSgw0x2400_(1an5se000C	apolify lauch JoSpylinsZRHL, LambielSUC	0.483	
JEU	960	Around And Alcums - Live	Love You Live (Harrapolared)	1927-09-20	T.	NebroBumiQ(2)BiWinSF1uKEY	apolity track hybrotumQQ3SWmSF furts V	0.808	
523	1529	Oh Beby (We Got A Good Thing Got?) - formaster	Novel	1988-02-13	19	20EHLOHMOOFNICK/NHTLO	spoofy track 2;conLegraldor (NXXFNHTL/2	0.494	