In [16]:
```
import pandas as pd
import numpy as np
data = pd.read_csv("C:\\datasci\\spotify-2023.csv",encoding='latin-1')
data
```

Out[16]:

	track_name	artist(s)_name	artist_count	released_year	released_month	released_day	in_s
0	Seven (feat. Latto) (Explicit Ver.)	Latto, Jung Kook	2	2023	7	14	
1	LALA	Myke Towers	1	2023	3	23	
2	vampire	Olivia Rodrigo	1	2023	6	30	
3	Cruel Summer	Taylor Swift	1	2019	8	23	
4	WHERE SHE GOES	Bad Bunny	1	2023	5	18	
...	...	...	...	...	...	...	
948	My Mind & Me	Selena Gomez	1	2022	11	3	
949	Bigger Than The Whole Sky	Taylor Swift	1	2022	10	21	
950	A Veces (feat. Feid)	Feid, Paulo Londra	2	2022	11	3	
951	En La De Ella	Feid, Sech, Jhayco	3	2022	10	20	
952	Alone	Burna Boy	1	2022	11	4	

953 rows × 24 columns

In [3]:
```
data.head(6)
```

Out[3]:

(s)_name	artist_count	released_year	released_month	released_day	in_spotify_playlists	in_spotify
atto, Jung Kook	2	2023	7	14	553	
‹e Towers	1	2023	3	23	1474	
a Rodrigo	1	2023	6	30	1397	
aylor Swift	1	2019	8	23	7858	
ad Bunny	1	2023	5	18	3133	
e, Central Cee	2	2023	6	1	2186	

In [5]:
```
data.shape
```

Out[5]:
```
(953, 24)
```

In [6]:
```
data.isnull()
```

Out[6]:

	track_name	artist(s)_name	artist_count	released_year	released_month	released_day	ir
0	False	False	False	False	False	False	
1	False	False	False	False	False	False	
2	False	False	False	False	False	False	
3	False	False	False	False	False	False	
4	False	False	False	False	False	False	
...	...	...	...	...	...	...	
948	False	False	False	False	False	False	
949	False	False	False	False	False	False	
950	False	False	False	False	False	False	
951	False	False	False	False	False	False	
952	False	False	False	False	False	False	

In [7]:
```
data.dropna()
```

Out[7]:

	track_name	artist(s)_name	artist_count	released_year	released_month	released_day	in_s
0	Seven (feat. Latto) (Explicit Ver.)	Latto, Jung Kook	2	2023	7	14	
1	LALA	Myke Towers	1	2023	3	23	
2	vampire	Olivia Rodrigo	1	2023	6	30	
3	Cruel Summer	Taylor Swift	1	2019	8	23	
4	WHERE SHE GOES	Bad Bunny	1	2023	5	18	
...	...	...	...	...	...	...	
948	My Mind & Me	Selena Gomez	1	2022	11	3	
949	Bigger Than The Whole Sky	Taylor Swift	1	2022	10	21	
950	A Veces (feat. Feid)	Feid, Paulo Londra	2	2022	11	3	
951	En La De Ella	Feid, Sech, Jhayco	3	2022	10	20	
952	Alone	Burna Boy	1	2022	11	4	

817 rows × 24 columns

In [8]:
```
data.describe()
```

Out[8]:

	artist_count	released_year	released_month	released_day	in_spotify_playlists	in_spotify_
count	953.000000	953.000000	953.000000	953.000000	953.000000	953.0
mean	1.556139	2018.238195	6.033578	13.930745	5200.124869	12.0
std	0.893044	11.116218	3.566435	9.201949	7897.608990	19.5
min	1.000000	1930.000000	1.000000	1.000000	31.000000	0.0
25%	1.000000	2020.000000	3.000000	6.000000	875.000000	0.0
50%	1.000000	2022.000000	6.000000	13.000000	2224.000000	3.0
75%	2.000000	2022.000000	9.000000	22.000000	5542.000000	16.0
max	8.000000	2023.000000	12.000000	31.000000	52898.000000	147.0

In [9]:
```
dict = {'name':["aparna", "pankaj", "sudhir", "Geeku"],
        'degree': ["MBA", "BCA", "M.Tech", "MBA"],
        'score':[90, 40, 80, 98]}

df = pd.DataFrame(dict, index = [True, False, True, False])

print(df)
```

```
         name  degree  score
True   aparna     MBA     90
False  pankaj     BCA     40
True   sudhir  M.Tech     80
False   Geeku     MBA     98
```

In [12]:
```
spotify_data = {
    'track_name': ['seven', 'haegeum', 'like crazy', 'arson'],
    'artist(s)_name': ['jungkook', 'suga', 'jimin', 'jhope'],
    'duration_ms': [200000, 180000, 220000, 240000],
    'popularity': [80, 60, 70, 90]
}
spotify_df = pd.DataFrame(spotify_data)

popularity_threshold = 50

filtered_spotify_df = spotify_df[spotify_df['popularity'] > popularity_thresho

print(filtered_spotify_df)
```

```
   track_name artist(s)_name  duration_ms  popularity
0       seven       jungkook       200000          80
1     haegeum           suga       180000          60
2  like crazy          jimin       220000          70
3       arson          jhope       240000          90
```

In [22]:
```
data['in_apple_playlists'].mean()
```

Out[22]:
```
67.8121720881427
```