

```
pip install spotipy
```

```

Requirement already satisfied: spotipy in /usr/local/lib/python3.11/dist-packages (2.25.0)
Requirement already satisfied: redis>=3.5.3 in /usr/local/lib/python3.11/dist-packages (from spotipy)
Requirement already satisfied: requests>=2.25.0 in /usr/local/lib/python3.11/dist-packages (from spotipy)
Requirement already satisfied: urllib3>=1.26.0 in /usr/local/lib/python3.11/dist-packages (from spotipy)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests)

```

Generated code may be subject to a license | ka-chng/spotify-information-gather

```
import spotipy
```

```
from spotipy.oauth2 import SpotifyClientCredentials
```

```
import pandas as pd
```

```
client_credentials_manager = SpotifyClientCredentials(client_id = "b6e073250b1044eca162cee8c1e53ec9", client_secret = "b6e073250b1044eca162cee8c1e53ec9")
```

```
sp = spotipy.Spotify(client_credentials_manager = client_credentials_manager)
```

```
playlist_link = "https://open.spotify.com/playlist/774kUuKDzLa8ieaSmi8IfS"
```

```
playlist_uri = playlist_link.split("/")[-1]
```

[+ Code](#)
[+ Text](#)

```
playlist_uri
```

```
'774kUuKDzLa8ieaSmi8IfS'
```

```
data = sp.playlist_tracks(playlist_uri)
```

```
data['items'][0]
```

```

name : Espresso ,
'release_date': '2024-04-12',
'release_date_precision': 'day',
'uri': 'spotify:album:5quMTd5zeI9yW5UDua8wS4',
'artists': [{'external_urls': {'spotify':
'https://open.spotify.com/artist/74KM79TiuVKeVCqs80tB0B'},
'href': 'https://api.spotify.com/v1/artists/74KM79TiuVKeVCqs80tB0B',
'id': '74KM79TiuVKeVCqs80tB0B',
'name': 'Sabrina Carpenter',
'type': 'artist',
'uri': 'spotify:artist:74KM79TiuVKeVCqs80tB0B'}],
'external_urls': {'spotify': 'https://open.spotify.com/album/5quMTd5zeI9yW5UDua8wS4'},
'total_tracks': 1},
'artists': [{'external_urls': {'spotify':
'https://open.spotify.com/artist/74KM79TiuVKeVCqs80tB0B'},
'href': 'https://api.spotify.com/v1/artists/74KM79TiuVKeVCqs80tB0B',
'id': '74KM79TiuVKeVCqs80tB0B',
'name': 'Sabrina Carpenter',
'type': 'artist',
'uri': 'spotify:artist:74KM79TiuVKeVCqs80tB0B'}],
'disc_number': 1,
'track_number': 1,
'duration_ms': 175459,
'external_ids': {'isrc': 'USUM72403305'},
'external_urls': {'spotify': 'https://open.spotify.com/track/2qSkIjg1o9h3YT9RAgYN75'},
'href': 'https://api.spotify.com/v1/tracks/2qSkIjg1o9h3YT9RAgYN75',
'id': '2qSkIjg1o9h3YT9RAgYN75',
'name': 'Espresso',
'popularity': 86,
'uri': 'spotify:track:2qSkIjg1o9h3YT9RAgYN75',

```

```
data['items'][0]['track']['album']['id']
```

```
↳ '5quMTd5zeI9yW5UDua8wS4'
```

```
data['items'][0]['track']['album']['name']
```

```
↳ 'Espresso'
```

```
data['items'][0]['track']['album']['release_date']
```

```
↳ '2024-04-12'
```

```
data['items'][0]['track']['album']['total_tracks']
```

```
↳ 1
```

```
data['items'][0]['track']['album']['external_urls']['spotify']
```

```
↳ 'https://open.spotify.com/album/5quMTd5zeI9yW5UDua8wS4'
```

```
album_list = []
```

```
for row in data['items']:
```

```
    album_id = row['track']['album']['id']
```

```
    album_name = row['track']['album']['name']
```

```
    album_release_date = row['track']['album']['release_date']
```

```
    album_total_tracks = row['track']['album']['total_tracks']
```

```
    album_url = row['track']['album']['external_urls']['spotify']
```

```
    album_element = {'album_id': album_id, 'name': album_name,
                     'release_date': album_release_date,
                     'total_tracks': album_total_tracks, 'url': album_url}
```

```
    album_list.append(album_element)
```


```
artist_list = []
for row in data['items']:
    for key, value in row.items():
        if key == "track":
            for artist in value['artists']:
                artist_dict = {'artist_id': artist['id'], 'artist_name':artist['name'],
                               'external_url': artist['href']}
                artist_list.append(artist_dict)

song_list = []
for row in data['items']:
    song_id = row['track']['id']
    song_name = row['track']['name']
    song_duration = row['track']['duration_ms']
    song_url = row['track']['external_urls']['spotify']
    song_popularity = row['track']['popularity']
    song_added = row['added_at']
    album_id = row['track']['album']['id']
    artist_id = row['track']['album']['artists'][0]['id']
    song_element = {'song_id':song_id, 'song_name':song_name, 'duration_ms':song_duration, 'url':song_url,
                    'popularity':song_popularity, 'song_added':song_added, 'album_id':album_id,
                    'artist_id':artist_id
                    }
    song_list.append(song_element)
```

Double-click (or enter) to edit

```
album_df = pd.DataFrame.from_dict(album_list)
```

```
album_df.head()
```



	album_id	name	release_date	total_tracks	u
0	5quMTd5zeI9yW5UDua8wS4	Espresso	2024-04-12	1	https://open.spotify.com/album/5quMTd5zeI9yW5I
1	10FLjwfpbxLmW8c25Xyc2N	Die With A Smile	2024-08-16	1	https://open.spotify.com/album/10FLjwfpbxLmW8
2	7aJuG4TFXa2hmE4z1yxc3n	HIT ME HARD AND SOFT	2024-05-17	10	https://open.spotify.com/album/7aJuG4TFXa2hmE
3	71PfP4E9roOXAudea1aPGw	eternal sunshine	2024-03-08	13	https://open.spotify.com/album/71PfP4E9roOXAu
4	29aSKB1qPEbN0Qf9OPSQpw	Beautiful Things	2024-01-18	1	https://open.spotify.com/album/29aSKB1qPEbN0C


Next steps:

[Generate code with album_df](#)

[View recommended plots](#)

[New interactive sheet](#)

```
album_df.info()
```



```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100 entries, 0 to 99
Data columns (total 5 columns):
#   Column      Non-Null Count  Dtype
---  -
0   album_id    100 non-null   object
1   name        100 non-null   object
2   release_date 100 non-null   object
```

```
3  total_tracks  100 non-null    int64
4   url          100 non-null    object
dtypes: int64(1), object(4)
memory usage: 4.0+ KB
```

```
artist_df = pd.DataFrame.from_dict(artist_list)
```

```
song_df = pd.DataFrame.from_dict(song_list)
```

```
album_df['release_date'] = pd.to_datetime(album_df['release_date'])
```

Double-click (or enter) to edit

```
song_df['song_added'] = pd.to_datetime(song_df['song_added'])
```