```
In [10]:  import numpy as np
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sns
          import requests
          import json
          import time
          from datetime import datetime
          import matplotlib.patches as mpatches


          API_KEY = '670856810f366a1dce53a40a4d69e0df'
          USER_AGENT = 'Mozilla/5.0'
          USERNAME = 'R1ZEN'
```

```
In [11]:  def lastfm_get(payload):
              headers = {'user-agent': USER_AGENT}
              url = 'http://ws.audioscrobbler.com/2.0/'
              payload['user'] = USERNAME
              payload['api_key'] = API_KEY
              payload['format'] = 'json'

              response = requests.get(url, headers=headers, params=payload)
              return response


          # Initialize an empty dictionary as cache
          artist_tags_cache = {}

          def get_artist_top_tags(artist):
              # Check if the artist's tags are already in the cache
              if artist in artist_tags_cache:
                  return artist_tags_cache[artist]

              # If not, fetch the tags from the API
              payload = {
                  'method': 'artist.getTopTags',
                  'artist': artist
              }
              response = lastfm_get(payload)
              if response.status_code != 200:
                  return None
              json_response = response.json()
              if 'toptags' in json_response and 'tag' in json_response['toptags']:
                  tags = [tag['name'] for tag in json_response['toptags']['tag'][:3]]
              else:
                  tags = []
              time.sleep(0.5)  # Delay to avoid overwhelming the API

              # Save the tags in the cache
              artist_tags_cache[artist] = ', '.join(tags)

              return artist_tags_cache[artist]



          def jprint(obj):
              text = json.dumps(obj, sort_keys=True, indent=4)
              print(text)

          def get_paginated_data(method, total_pages):
              page = 1
```

Loading [MathJax]/extensions/Safe.js

```python
        while page <= total_pages:
            payload = {
                'method': method,
                'page': page
            }
            print(f"Retrieving page {page}")
            response = lastfm_get(payload)
            if response.status_code != 200:
                print(f"Request failed for page {page}")
                break
            json_response = response.json()
            if page <= 3:  # print the JSON data for first 3 pages
                jprint(json_response)
            yield json_response
            page += 1
            time.sleep(0.5)  # delay between requests
```

In [12]:
```python
# Get the total number of pages
response = lastfm_get({'method': 'user.getrecenttracks'})
# Setting total_pages to 2 to get only the first two pages
total_pages = 1

# Get the data for these pages
data = []
for page_data in get_paginated_data('user.getrecenttracks', total_pages):
    data.append(page_data)
```

```
Retrieving page 1
{
    "recenttracks": {
        "@attr": {
            "page": "1",
            "perPage": "50",
            "total": "138218",
            "totalPages": "2765",
            "user": "R1ZEN"
        },
        "track": [
            {
                "@attr": {
                    "nowplaying": "true"
                },
                "album": {
                    "#text": "ECO PACK-\u738b\u83f2-\u6d6e\u8e81",
                    "mbid": ""
                },
                "artist": {
                    "#text": "\u738b\u83f2",
                    "mbid": "692e367d-2846-442d-b13d-1177c3681c65"
                },
                "image": [
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/34s/5218960cd73f
cf83b211737f566d0f8b.png",
                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/5218960cd73f
cf83b211737f566d0f8b.png",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/5218960cd73
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                        "size": "large"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/5218960c
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                        "size": "extralarge"
                    }
                ],
                "mbid": "a6be2a73-55cf-3d17-b50c-6da1de5ced14",
                "name": "\u58ae\u843d",
                "streamable": "0",
                "url": "https://www.last.fm/music/%E7%8E%8B%E8%8F%B2/_/%E5%A2%AE%E8%90%B
D"
            },
            {
                "album": {
                    "#text": "The Moon And The Melodies",
                    "mbid": "19a1b784-496f-444f-8043-f0ac97c541bf"
                },
                "artist": {
                    "#text": "Cocteau Twins",
                    "mbid": "000fc734-b7e1-4a01-92d1-f544261b43f5"
                },
                "date": {
                    "#text": "08 Aug 2023, 22:32",
                    "uts": "1691533977"
                },
```

Loading [MathJax]/extensions/Safe.js

```
                "image": [
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/34s/e51ba86b306c
3ba9b0963f6fa52563d4.jpg",
                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/e51ba86b306c
3ba9b0963f6fa52563d4.jpg",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/e51ba86b306
c3ba9b0963f6fa52563d4.jpg",
                        "size": "large"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/e51ba86b
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                        "size": "extralarge"
                    }
                ],
                "mbid": "2170153f-0277-3f01-8a92-b86335dc79a0",
                "name": "Sea, Swallow Me",
                "streamable": "0",
                "url": "https://www.last.fm/music/Cocteau+Twins/_/Sea,+Swallow+Me"
            },
            {
                "album": {
                    "#text": "\u30e9\u30f3\u30d7\u5e7b\u60f3",
                    "mbid": ""
                },
                "artist": {
                    "#text": "Lamp",
                    "mbid": ""
                },
                "date": {
                    "#text": "08 Aug 2023, 22:28",
                    "uts": "1691533737"
                },
                "image": [
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/34s/4b5bd499be20
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                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/4b5bd499be20
581718de6c6632e67ced.jpg",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/4b5bd499be2
0581718de6c6632e67ced.jpg",
                        "size": "large"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/4b5bd499
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                        "size": "extralarge"
                    }
                ],
                "mbid": "bdcb4700-6844-3da1-8cf7-d6f5a3d0415c",
                "name": "\u767d\u663c\u5922",
```

Loading [MathJax]/extensions/Safe.js

```
                    "streamable": "0",
                    "url": "https://www.last.fm/music/Lamp/_/%E7%99%BD%E6%98%BC%E5%A4%A2"
                },
                {
                    "album": {
                        "#text": "Crumbling",
                        "mbid": "965aa0ba-a1ee-4620-8479-5459411d24f7"
                    },
                    "artist": {
                        "#text": "Mid-Air Thief",
                        "mbid": "09d6b33f-6bdf-4441-8334-200696ad98e0"
                    },
                    "date": {
                        "#text": "08 Aug 2023, 22:24",
                        "uts": "1691533480"
                    },
                    "image": [
                        {
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                            "size": "small"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/64s/bd65cfa490d3
42d493cebe2b2fdb32a3.jpg",
                            "size": "medium"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/174s/bd65cfa490d
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                            "size": "large"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/bd65cfa4
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                            "size": "extralarge"
                        }
                    ],
                    "mbid": "",
                    "name": "Curve and Light",
                    "streamable": "0",
                    "url": "https://www.last.fm/music/Mid-Air+Thief/_/Curve+and+Light"
                },
                {
                    "album": {
                        "#text": "Stratosphere",
                        "mbid": "79acc86e-b12b-4a4a-ad7d-7c9f928438a3"
                    },
                    "artist": {
                        "#text": "Duster",
                        "mbid": ""
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                    "date": {
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                            "#text": "https://lastfm.freetls.fastly.net/i/u/34s/5313a74c73eb
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                            "size": "small"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/64s/5313a74c73eb
```

Loading [MathJax]/extensions/Safe.js

```json
                                ef3c9d2bb6d3ccf4337f.jpg",
                                "size": "medium"
                            },
                            {
                                "#text": "https://lastfm.freetls.fastly.net/i/u/174s/5313a74c73e
bef3c9d2bb6d3ccf4337f.jpg",
                                "size": "large"
                            },
                            {
                                "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/5313a74c
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                                "size": "extralarge"
                            }
                        ],
                        "mbid": "04c316a9-71da-3201-a360-dfc4b28bb50d",
                        "name": "Topical Solution",
                        "streamable": "0",
                        "url": "https://www.last.fm/music/Duster/_/Topical+Solution"
                    },
                    {
                        "album": {
                            "#text": "Ceres & Calypso in the Deep Time",
                            "mbid": "32cdbb59-0f9b-4df5-8986-4ab0ccb294d6"
                        },
                        "artist": {
                            "#text": "Candy Claws",
                            "mbid": "da5eaa3b-397e-4af8-9a12-5c4ec93e8b48"
                        },
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                            "uts": "1691532998"
                        },
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                            {
                                "#text": "https://lastfm.freetls.fastly.net/i/u/34s/b6cb3ed542d5
4666b415b0fd25ec9432.png",
                                "size": "small"
                            },
                            {
                                "#text": "https://lastfm.freetls.fastly.net/i/u/64s/b6cb3ed542d5
4666b415b0fd25ec9432.png",
                                "size": "medium"
                            },
                            {
                                "#text": "https://lastfm.freetls.fastly.net/i/u/174s/b6cb3ed542d
54666b415b0fd25ec9432.png",
                                "size": "large"
                            },
                            {
                                "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/b6cb3ed5
42d54666b415b0fd25ec9432.png",
                                "size": "extralarge"
                            }
                        ],
                        "mbid": "7bd9cf77-84ed-4c71-b227-92205f22acb4",
                        "name": "Where I Found You (One Star)",
                        "streamable": "0",
                        "url": "https://www.last.fm/music/Candy+Claws/_/Where+I+Found+You+(One+S
tar)"
                    },
                    {
                        "album": {
                            "#text": "ECO PACK-\u738b\u83f2-\u6d6e\u8e81",
                            "mbid": ""
```

Loading [MathJax]/extensions/Safe.js

```
                },
                "artist": {
                    "#text": "Faye Wong",
                    "mbid": ""
                },
                "date": {
                    "#text": "08 Aug 2023, 22:12",
                    "uts": "1691532753"
                },
                "image": [
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/34s/5218960cd73f
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                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/5218960cd73f
cf83b211737f566d0f8b.png",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/5218960cd73
fcf83b211737f566d0f8b.png",
                        "size": "large"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/5218960c
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                        "size": "extralarge"
                    }
                ],
                "mbid": "",
                "name": "\u6383\u8208",
                "streamable": "0",
                "url": "https://www.last.fm/music/Faye+Wong/_/%E6%8E%83%E8%88%88"
            },
            {
                "album": {
                    "#text": "The Dark Side of the Moon",
                    "mbid": "01aa589c-a7cb-45bd-89a3-c2cb8ddab0a9"
                },
                "artist": {
                    "#text": "Pink Floyd",
                    "mbid": "83d91898-7763-47d7-b03b-b92132375c47"
                },
                "date": {
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                    "uts": "1691532272"
                },
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89cda2056760c2d55550.jpg",
                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/403e2e059d72
89cda2056760c2d55550.jpg",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/403e2e059d7
289cda2056760c2d55550.jpg",
                        "size": "large"
```

Loading [MathJax]/extensions/Safe.js

```
                },
                {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/403e2e05
9d7289cda2056760c2d55550.jpg",
                        "size": "extralarge"
                }
            ],
            "mbid": "cb35c759-8171-3346-a4d9-4b782ea48edc",
            "name": "Us and Them",
            "streamable": "0",
            "url": "https://www.last.fm/music/Pink+Floyd/_/Us+and+Them"
        },
        {
            "album": {
                "#text": "Twilight",
                "mbid": "311ad921-98dc-43d5-ad37-ceba57618f52"
            },
            "artist": {
                "#text": "b\u00f4a",
                "mbid": "ca1dcba2-792c-4550-abf2-7b45396e81ca"
            },
            "date": {
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                "uts": "1691531958"
            },
            "image": [
                {
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                        "size": "small"
                },
                {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/40564dd1a58f
969fc3ee3c49bddffd23.png",
                        "size": "medium"
                },
                {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/40564dd1a58
f969fc3ee3c49bddffd23.png",
                        "size": "large"
                },
                {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/40564dd1
a58f969fc3ee3c49bddffd23.png",
                        "size": "extralarge"
                }
            ],
            "mbid": "7be52729-0a1d-3dc1-b605-27d9e14c9fe4",
            "name": "For Jasmine",
            "streamable": "0",
            "url": "https://www.last.fm/music/b%C3%B4a/_/For+Jasmine"
        },
        {
            "album": {
                "#text": "\u30ad\u30e5\u30d7\u30e9",
                "mbid": "d9707859-cdbf-4f03-9cf9-920665164d59"
            },
            "artist": {
                "#text": "\u30d5\u30ec\u30cd\u30b7",
                "mbid": ""
            },
            "date": {
                "#text": " 08 Aug 2023, 21:56",
                "uts": "1691531805"
```

```
                },
                "image": [
                    {
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                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/be284406473d
bc13ff4c5d9856da93b5.jpg",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/be284406473
dbc13ff4c5d9856da93b5.jpg",
                        "size": "large"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/be284406
473dbc13ff4c5d9856da93b5.jpg",
                        "size": "extralarge"
                    }
                ],
                "mbid": "7eec816c-c30f-3491-bb48-72d2bb539d5d",
                "name": "\u8d85\u81e8\u754c\u6d41\u4f53",
                "streamable": "0",
                "url": "https://www.last.fm/music/%E3%83%95%E3%83%AC%E3%83%8D%E3%82%B7/
_/%E8%B6%85%E8%87%A8%E7%95%8C%E6%B5%81%E4%BD%93"
            },
            {
                "album": {
                    "#text": "Windswept Adan",
                    "mbid": ""
                },
                "artist": {
                    "#text": "Ichiko Aoba",
                    "mbid": "fc3ae4dd-dcc5-4f99-a865-6bc1a5c9b705"
                },
                "date": {
                    "#text": "08 Aug 2023, 21:53",
                    "uts": "1691531580"
                },
                "image": [
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/34s/3a39fc6acd5c
9eb5f5c2ac532c8d69fa.png",
                        "size": "small"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/3a39fc6acd5c
9eb5f5c2ac532c8d69fa.png",
                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/3a39fc6acd5
c9eb5f5c2ac532c8d69fa.png",
                        "size": "large"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/3a39fc6a
cd5c9eb5f5c2ac532c8d69fa.png",
                        "size": "extralarge"
                    }
                ],
```

Loading [MathJax]/extensions/Safe.js

```
                    "mbid": "d9b30885-ad65-4170-a962-2dc5a8ebf775",
                    "name": "Chi no Kaze",
                    "streamable": "0",
                    "url": "https://www.last.fm/music/Ichiko+Aoba/_/Chi+no+Kaze"
                },
                {
                    "album": {
                        "#text": "Crumbling",
                        "mbid": "965aa0ba-a1ee-4620-8479-5459411d24f7"
                    },
                    "artist": {
                        "#text": "Mid-Air Thief",
                        "mbid": "09d6b33f-6bdf-4441-8334-200696ad98e0"
                    },
                    "date": {
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                        "uts": "1691531202"
                    },
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                        {
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                            "size": "small"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/64s/bd65cfa490d3
42d493cebe2b2fdb32a3.jpg",
                            "size": "medium"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/174s/bd65cfa490d
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                            "size": "large"
                        },
                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/bd65cfa4
90d342d493cebe2b2fdb32a3.jpg",
                            "size": "extralarge"
                        }
                    ],
                    "mbid": "71ace145-9a14-4378-9c98-f2e37a8fbd51",
                    "name": "Dirt",
                    "streamable": "0",
                    "url": "https://www.last.fm/music/Mid-Air+Thief/_/Dirt"
                },
                {
                    "album": {
                        "#text": "Getz/Gilberto",
                        "mbid": "07965278-f955-44a5-b41f-ea03a2f3e303"
                    },
                    "artist": {
                        "#text": "Stan Getz",
                        "mbid": "8f2422ab-0ec6-4c92-80c4-afe9622fab32"
                    },
                    "date": {
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                        {
                            "#text": "https://lastfm.freetls.fastly.net/i/u/34s/028c3648a12a
5b5f0a9dc6a1114f1350.jpg",
                            "size": "small"
                        },
```

Loading [MathJax]/extensions/Safe.js

```json
                {
                    "#text": "https://lastfm.freetls.fastly.net/i/u/64s/028c3648a12a
5b5f0a9dc6a1114f1350.jpg",
                    "size": "medium"
                },
                {
                    "#text": "https://lastfm.freetls.fastly.net/i/u/174s/028c3648a12
a5b5f0a9dc6a1114f1350.jpg",
                    "size": "large"
                },
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                    "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/028c3648
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                        "#text": "NewJeans",
                        "mbid": "49204a7a-ed85-407a-828f-6fd46f1d8126"
                    },
                    "date": {
                        "#text": "08 Aug 2023, 18:50",
                        "uts": "1691520646"
                    },
                    "image": [
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                        {
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                        }
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                    "name": "New Jeans",
                    "streamable": "0",
                    "url": "https://www.last.fm/music/NewJeans/_/New+Jeans"
                },
                {
                    "album": {
                        "#text": "NewJeans 2nd EP 'Get Up'",
                        "mbid": ""
                    },
                    "artist": {
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                        "mbid": "49204a7a-ed85-407a-828f-6fd46f1d8126"
                    },
```

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```
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                    "mbid": "df4c608f-9487-438c-a07e-23b740977988",
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                    "url": "https://www.last.fm/music/NewJeans/_/Super+Shy"
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                    "album": {
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                        "mbid": ""
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                    "artist": {
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                        "mbid": "b51c672b-85e0-48fe-8648-470a2422229f"
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                            "#text": "https://lastfm.freetls.fastly.net/i/u/64s/3b96f9008aba
a1134b17b8752abc3f78.jpg",
                            "size": "medium"
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```

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```json
                    }
                ],
                "mbid": "e6de824a-33d9-419e-8ee5-a5938f9f00cc",
                "name": "I'm Unhappy",
                "streamable": "0",
                "url": "https://www.last.fm/music/aespa/_/I%27m+Unhappy"
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                "album": {
                    "#text": "HyunJin",
                    "mbid": ""
                },
                "artist": {
                    "#text": "Loona",
                    "mbid": "8d46a79b-760d-4f82-8019-463bbe7b77a7"
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                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/64s/598cc2f62e84
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                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/598cc2f62e8
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                    },
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                    }
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                "streamable": "0",
                "url": "https://www.last.fm/music/Loona/_/I%27ll+be+there"
            },
            {
                "album": {
                    "#text": "The Perfect Red Velvet - The 2nd Album Repackage",
                    "mbid": ""
                },
                "artist": {
                    "#text": "Red Velvet",
                    "mbid": ""
                },
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```

```
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a46ed1d6aeaa99a23b9a.jpg",
                                    "size": "medium"
                                },
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5a46ed1d6aeaa99a23b9a.jpg",
                                    "size": "large"
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                                    "size": "extralarge"
                                }
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                            "name": "Perfect 10",
                            "streamable": "0",
                            "url": "https://www.last.fm/music/Red+Velvet/_/Perfect+10"
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                                "mbid": ""
                            },
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                            },
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                                    "size": "small"
                                },
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                                    "#text": "https://lastfm.freetls.fastly.net/i/u/64s/83d4edbc3375
405fb307339a701540d0.jpg",
                                    "size": "medium"
                                },
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                                    "#text": "https://lastfm.freetls.fastly.net/i/u/174s/83d4edbc337
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                                    "size": "large"
                                },
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                                    "size": "extralarge"
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                            ],
                            "mbid": "3442cb97-fa98-4093-9c6a-c0b2bac2e3d0",
                            "name": "Infinite Potentiality",
                            "streamable": "0",
                            "url": "https://www.last.fm/music/Machine+Girl/_/Infinite+Potentiality"
                        },
                        {
```

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```json
                "album": {
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                    "mbid": "f89bc3aa-8309-4a7c-a166-80741108cda3"
                },
                "artist": {
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                    "mbid": "2791a048-7546-450e-aeda-a692a74f65c0"
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                "date": {
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                    "uts": "1691519436"
                },
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                        "size": "small"
                    },
                    {
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                        "size": "medium"
                    },
                    {
                        "#text": "https://lastfm.freetls.fastly.net/i/u/174s/830f22af153d98f3eea3ed26676993be.jpg",
                        "size": "large"
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                        "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/830f22af153d98f3eea3ed26676993be.jpg",
                        "size": "extralarge"
                    }
                ],
                "mbid": "b71e9115-0185-4aa2-88d8-ca42df7363c7",
                "name": "drugs in her room",
                "streamable": "0",
                "url": "https://www.last.fm/music/YABUJIN/_/drugs+in+her+room"
            },
            {
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                    "#text": "Discovery",
                    "mbid": "098060d4-ba3c-469d-88b0-08642261c7ab"
                },
                "artist": {
                    "#text": "Daft Punk",
                    "mbid": "056e4f3e-d505-4dad-8ec1-d04f521cbb56"
                },
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                        "size": "medium"
                    },
                    {
```

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```
                    "#text": "https://lastfm.freetls.fastly.net/i/u/174s/1340e9e1082
cf0dc748583b7eefce6d5.jpg",
                    "size": "large"
                },
                {
                    "#text": "https://lastfm.freetls.fastly.net/i/u/300x300/1340e9e1
082cf0dc748583b7eefce6d5.jpg",
                    "size": "extralarge"
                }
            ],
            "mbid": "1dea8b17-c944-3542-96d0-f74da5d817f3",
            "name": "Face to Face",
            "streamable": "0",
            "url": "https://www.last.fm/music/Daft+Punk/_/Face+to+Face"
        }
    ]
}
}
```

In [5]:
```python
# Cell 4
# Convert the nested JSON into a flat table
df = pd.json_normalize([item for sublist in [page['recenttracks']['track'] for page in d

# Drop unnecessary columns
df.drop(columns=['@attr.nowplaying', 'image', 'streamable', 'url', 'mbid', 'album.mbid',

# Extract '#text' from 'artist', 'album' and 'date' if they exist
if 'artist.#text' in df.columns:
    df['artist'] = df['artist.#text']
if 'album.#text' in df.columns:
    df['album'] = df['album.#text']
if 'date.#text' in df.columns:
    df['date'] = df['date.#text']

# Drop the original 'artist', 'album' and 'date' columns
df.drop(columns=['artist.#text', 'album.#text', 'date.#text', 'date.uts'], errors='ignor

# Rename 'name' to 'track'
df.rename(columns={'name': 'track'}, inplace=True)

# Display a sample of the cleaned data
print(df.sample(5))
```

```
                                                track        artist  \
74852                                        イエスタディ    セキトオ・シゲオ
44564                                           kit        Julie
56351                                       Come in   Weatherday
137057  Layla - Acoustic; Live at MTV Unplugged, Bray ...  Eric Clapton
8253                                         Datura        Cortex

                          album                date
74852     華麗なるエレクトーン -ザ・ワード-  28 Aug 2021, 20:40
44564             starjump/kit  08 Jul 2022, 22:43
56351                  Come In  07 Apr 2022, 19:28
137057  Unplugged (Deluxe Edition)  01 Apr 2020, 05:40
8253            Cortex, Vol. 2  29 Apr 2023, 01:45
```

In [6]:
```python
# Cell 5
# Get a list of unique artists
unique_artists = df['artist'].unique()

# Get the top tags for each unique artist
artist_tags = {artist: get_artist_top_tags(artist) for artist in unique_artists}

# ...ist column to the genre tags
```

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```python
df['tags'] = df['artist'].map(artist_tags)

# Display a sample of the cleaned data with tags
print(df.sample(5))

# Save the DataFrame to a CSV file
df.to_csv('lastfm_data2.csv', index=False)
```

```
                               track         artist  \
78861                    etoile et toi       物語シリーズ
68952                   Falling for You         Weezer
135697                         Eclipse     Pink Floyd
76454                     Meat Grinder      Madvillain
114693   Blue Monday - 2016 Remaster       New Order


                                                    album                 date  \
78861    Kizumonogatari Gekihanongakushu (Original Soun...  12 Jul 2021, 04:29
68952                                         Pinkerton    26 Nov 2021, 03:59
135697                        The Dark Side of the Moon    08 Apr 2020, 20:30
76454                                         Madvillainy  10 Aug 2021, 01:37
114693                         Singles (2016 Remaster)   13 Sep 2020, 18:51


                                                    tags
78861                         Soundtrack, j-pop, japanese
68952                   rock, alternative, alternative rock
135697   Progressive rock, classic rock, Psychedelic Rock
76454                   Hip-Hop, underground hip-hop, rap
114693                    new wave, electronic, post-punk
```

In [ ]:
```