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ATOM CS TEAM

TASK 2

QUESTION:

For the given dataset below, using the genres blues, dance, jazz, metal generate any 20 songs with their title, artist name and their respective Spotify id using python, the output must look something like the following image. (Hint: Use Tabulate library)

Name	Artist	Spotify id
To My Friend Kenny McKenny	Anthony Braxton	4N7Z70SHRBYIZNP1j9BDgk
Parabola	Jawbreaker	0APvAy6J101RbYvVy2xLYh
Try a Little Tenderness	Michael Bublé	7a6s0EWZA0MgqF9EM2jAUK
Komm zurück zu mir	Bohren & der Club of Gore	577nxf5sQJL4e0Md0Pt3jv
Concerto Grosso, Op 6 No. 8	Georg Friedrich Händel	5y6EKdvnsNxw6J1ZHpTUwp
If You Don't, I Know Who Will	Bessie Smith	5UnuLFDS9m7X3XU0Ki3bQb
Gloomy Sunday	Sinéad O'Connor	3uQ1MLS6sts3LFcge8B5v0
Africa Con India	Trilok Gurtu	3rsAEZrCD3kTZDUZEL1UPx
Sand	Allan Holdsworth	7Az10fChyqxH7B5j3vGrBX
Cloudscape	Philip Glass	3rCpC4anwr5AbJDibMshQV
History Repeating	Shirley Bassey	3cQPQu1BRz0thXh0u7i2Q3
Toto Dies	Nellie McKay	1hdTWBiGRG21vmb1LT3ASW
Pirate Jenny	Nina Simone	0o8KZ6zEzj10socyMMZzQu
Under Wraps	Barry Adamson	39CE7G1mQIdabpqMyTdZAn
Powerhouse	Raymond Scott	1Lm6TM3Cem6sBRmaX8EdVQ
Act II - A Beautiful Square In Isfahan	Carl Nielsen	2K20TsJUVSaZ6yh9Wri3Bm
Sounds From The Big House	Barry Adamson	4IzbR85h3SzuZJd7DTy6cU
Be Careful	Peter Cincotti	4pemQFmC9YtJGc6HRrzJSL

SOFTWARE REQUIRED:

Python

CODE:

```
import pandas as pd
from tabulate import tabulate

df = pd.read_csv(open("GFG.csv", encoding="utf8"))

df2 = df[df.genre == 'metal']
df3 = df[df.genre == 'blues']
df4 = df[df.genre == 'dance']
df5 = df[df.genre == 'jazz']
```

```
frames = [df2, df3, df4, df5]
result = pd.concat(frames)
req = result[['track', 'artist', 'spotify_id']]
final = req.sample(n=21)
print(tabulate(final, headers = 'keys', tablefmt = 'psql'))
```

OUTPUT:

	track	artist	spotify_id
53877	Secrets	The Weeknd	00NAQY0P4AmWR549nnYJZu
80505	Button up Your Overcoat	Ruth Etting	3c9SDdo70fvpr5HiknKw2K
29216	Zikr	Abdullah Ibrahim	76cts6exlQ0R358dEaQBZa
89629	Where Have I Known You Before	Return to Forever	3sfkTYFcBhRhJaIa000r0Za
64680	Dirty Black Summer (Danzig Cover)	Vargotah	No Info
60964	Who Was That Girl?	Bill Frisell	0TELcy9gzB0tsKfzryH9eR
62033	There is Nothing More To Sing	ZX Spectrum	No Info
42844	Uno Memento Mortis	Grzegorz Turnau	0DqcTwSNRe6LFekmJzBD7I
18503	Fuses	Stereolab	0IrLSstZKQ1LDa0a8hz2iI
24017	Is There Anybody Here That Love My Jesus	Medeski Martin and Wood	6gaqA0IxUYjt1harq02zPp
88171	When the Moon Was Blue	EL-P	No Info
25430	But Not for Me	Doris Day	5eLFij0IFbnrkEoBEDw02d
61815	Brutal Vasectomy	Banisher	No Info
75680	Dikalo	Manu Dibango	7pynF3ZjAJZfUQhms4bpbk2
26448	Someone's Rocking My Dreamboat	The Ink Spots	02fLGEiKqttXmQbc5PD3ck
42059	Is You Is or Is You Ain't My Baby	Screamin' Jay Hawkins	18hG1uXkvQ0Dm3xU5Tr2gC
79108	Cherie, I Love You	Nat King Cole	7LPPkBgwnPGiWMJ5e3qcku
44665	Haul	Flybanger	1nHn0VT10L1nzF022TszJT
74344	alcooolisé	Contreband	No Info
70184	Vacation in Venus	Factory of Dreams	1MaZLckZoxkg5IuAVsYS2c
2620	Asian Love	Marjolaine	No Info

INFERENCE AND RESULT:

Here we have used pandas and tabulate library to use the given csv file to print the desired output. Using the genres blues, dance, jazz, and metal, the output with any 20 songs is generated. To get the desired layout, tabulate library is used.