

```
!pip install turicreate
```

```
from google.colab import drive  
drive.mount('/content/gdrive')
```

Mounted at /content/gdrive

▼ Recommending songs

```
import turicreate
```

```
song_data = turicreate.SFrame('/content/gdrive/My Drive/Turicreate/Week 5/song_data.sframe/')  
song_data
```



user_id	song_id	listen_count	title
b80344d063b5ccb3212f76538 f3d9e43d87dca9e ...	SOAKIMP12A8C130995	1	The Cove
b80344d063b5ccb3212f76538 f3d9e43d87dca9e	SOBBMDR12A8C13253B	2	Entre Dos Aguas

Quiz 1. Which of the artists below have had the most unique users listening to their songs?

```
| b80344d063b5ccb3212f76538 | SOAKIMP12A8C130995 | 1 | Learn To Fly |
kanye = song_data[song_data['artist'] == 'Kanye West']
kanye['user_id'].unique()

dtype: str
Rows: 2522
['900ed526660df9c3442ebe736db94eb0bc251b73', '5c604b6fc3d4077dfca40a57eea49388b69a19d6', 'b4c

| b80344d063b5ccb3212f76538 | SOFRQ1D12A81C233C0 | 1 | Sehr |
foo = song_data[song_data['artist'] == 'Foo Fighters']
foo['user_id'].unique()

dtype: str
Rows: 2055
['dc4a6ab83084f5f1c858793fa22f1200d5b6c267', '83b1428917b47a6b130ed471b09033820be78a8c', '5c9

| Entre Dos Aguas - Poco De |
taylor = song_data[song_data['artist'] == 'Taylor Swift']
taylor['user_id'].unique()

dtype: str
Rows: 3246
['02f015d32ac2cd1e52d26e3ec36048711dd5711b', '968f1baebc490d3c6999ee6c85c5cab8b726b347', '8a8

| Koi - Heroes del ... |
lady_gaga = song_data[song_data['artist'] == 'Lady GaGa']
lady_gaga['user_id'].unique()

dtype: str
Rows: 2928
['0ecb1f480ebb237dc7821c898c94219cdfc38789', '7ad06615d118067e1bf973aa86c672874e0eb78f', 'b2b
```

Quiz 2. Which of the artists below is the most popular artist, the one with highest total listen_count, in the data set?

```
song_data_grouped = song_data.groupby(key_column_names='artist', operations={'total_count':tur icrea
song_data_grouped.head()
```

artist	total_count
The Dells	274
Diana Ross	302
Kurtis Blow	239
She & Him	2199
Ensiferum	210
Beth Quist	379
Vangelis	324
Graham Nash	252
Death From Above 1978	100

```
song_data_grouped.sort('total_count', ascending=False)
```

artist	total_count
Kings Of Leon	43218
Dwight Yoakam	40619
Björk	38889
Coldplay	35362
Florence + The Machine	33387
Justin Bieber	29715
Alliance Ethnik	26689
OneRepublic	25754
Train	25402
The Black Keys	22184

[3375 rows x 2 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

Quiz 3. Which of the artists below is the least popular artist, the one with smallest total listen_count, in the data set?

```
song_data_grouped.sort('total_count')
```

artist	total_count
William Tabbert	14
Reel Feelings	24
Beyoncé feat. Bun B and Slim Thug ...	26
Diplo	30
Boggle Karaoke	30
harvey summers	31
Nâdiya	36
Jody Bernal	38
Aneta Langerova	38
Kanye West / Talib Kweli / Q-Tip / Common / ...	38

[3375 rows x 2 columns]

Note: Only the head of the SFrame is printed.

You can use `print_rows(num_rows=m, num_columns=n)` to print more rows and columns.

