Spotify Dataset Challenge

NOTE: Built in features in Cloud IDE can NOT be used to solve these challenges. In order to win the prize:

- **Complete ECL solution must be shown.**
- **Pick one challenge from each category.**

Hint: To display the first 150:

```
OUTPUT(CHOOSEN(getMusic.SpotifyDS, 150), NAMED('Raw_MusicDS'));
```

Category 1:

- Sort "TopGenre" and count your total music dataset and display the first 50.
- Display first 50 songs by "garage rock" genre and then count the total.
- Count how many songs was produced by "Prince" in 1984.
- Who sang "Into Temptation"?
- Sort songs by Artist and title, output the first 100.
- Find the least Popular song using "Popularity" field

Category 2:

- Display all games produced by "Coldplay" Artist AND has a “Popularity” greater or equal to 75 (>= 75) , SORT it by title. Count the result.

- Count all songs that "SongDuration" is between 200 AND 250 AND "Speechiness" is above 14.
    - Hint: (SongDuration > 200 AND SongDuration < 250).

- Create a new dataset which only has "Artist", "Title" and "Year", Display the first 50.
    - Hint: Create your new layout and use TRANSFORM for new fields.
    - Use PROJECT, to loop through your music dataset

- What’s the correlation between "Popularity" AND "Liveness"? What’s the correlation between "Loudness" AND "Energy".

Category 3:

- Create a new dataset which only has following conditions
  - Column named "Song" that has "Title" values
  - New BOOLEAN Column called isPopular, and it's TRUE is IF "Popularity" is greater than 80
  - New INTEGER Column called "Funkiness" which is "Loudness" + "Danceability"
  - Display the first 50

  - Hint:
  - Create your new layout and use TRANSFORM for new fields.
  - Use PROJECT, to loop through your music dataset

- Display number of songs per "TopGenre", display the first 50 and count your total.
  - Hint: All you need is a TABLE

- Calculate average "Danceability" per "Artist" for "Year" 2008
  - Hint: All you need is a TABLE