Query data for following details using pandas, seaborn, matplotlib packages

• Display details of the songs that have popularity above 80

• Which is having maximum length, beats per minute?

• Which is having minimum length, beats per minute?

• Create new column <track\_name\_length> to store string length

• Create new column <Artist\_first\_name> to store first name of each artist

• How many songs from “dance pop” genre?

• What is average length for each genre?

• What is average length for each artist?

• What is maximum length for each genre?

• What is average length for each artist?

• How many songs share same popularity?

• Rank each song based on popularity.

• Rank each song based on danceability.

• Average, Maximum, Minimum, standard deviation of each column

• Average, Maximum, Minimum, standard deviation of each row

• Add a new column <length\_variance> where each row will represent difference between row value and mean of the each genre group.

• Take log transform on Loudness DB and add as <log\_loudness\_db> column

• Visualize if there is linear correlation between beats per minutes and popularity, danceability and popularity, energy and popularity

• What is distribution of popularity with respect to energy

• What is distribution of popularity with respect to beats. Per minute

• Are there any outliers in popularity, danceability, beats per minute?

• Visual each artist distribution

• Visual each track name distribution

• Visual each genre distribution

• Visual artist, track, genre distribution using subplots