**Moodle Announcement**

Title: Spotify Trends

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Brief Description: Analyze Spotify tracks popularity and how it’s affected by different features, such as danceability, energy and loudness and the correlation between these. After analyzing the data we will be able to predict future trends in Spotify’s popularity list

Dataset: <https://www.kaggle.com/zaheenhamidani/ultimate-spotify-tracks-db>

Tools: Jupyter Notebook, Panda Dataframe, Google Drive, WhatsApp,

**Popularity mean by: Genre**

ACapella = 1.693773639802153

Country = 46.100415512465375

Dance = 57.27525571773359

Alternative = 54.65903988025232

Electronic = 38.05609469979738

Anime = 54.65903988025232

Folk = 49.26472805600431

Blues = 54.65903988025232

Movie = 12.140761821366025

Opera = 10.337642077111656

Hip-Hop = 8.586823199579463

Indie = 3.5062054700068948

Jazz = 23.973439861800905

Childrens Music = nan

R&B = 5.33

Classical = 29.28219533275713

Rap = 15.35563973063973

Comedy = 21.342629893606034

Reggae = 15.668386322735453

Pop = 20.05109489051095

Rock = 29.22132084095064

Reggaeton = 5.216109045848823

Soundtrack = 40.0352520256761

Soul = 27.427659105923805

Ska = 5.9185049719968

World = 33.56711667215454

**Popularity mean by: Key**

A = 27.81004129537057

A# = 26.361936751378416

B = 29.717001660653953

B# = nan

C = 28.13468479964998

C# = 28.55456942003515

D = 28.630943396226414

D# = 28.211612021857924

E = 29.367824074074075

E# = nan

F = 28.169777777777778

F# = 30.072870474551593

G = 27.64905089002142

G# = 29.29928149676318

**Popularity mean by: Time signature**

4/4 = 29.006404743810247

3/4 = 25.964353569166743

2/4 = nan

1/4 = 21.654476190476192

0/4 = 2.4061624649859943

**Correlation Values between numeric Features:**

Correlation between popularity and popularity = 1.0

Correlation between popularity and acousticness = -0.15995797703237294

Correlation between popularity and danceability = -0.07674598764403408

Correlation between popularity and duration\_ms = 0.035273811775369285

Correlation between popularity and energy = 0.1450346754521869

Correlation between popularity and instrumentalness = -0.17462491953746365

Correlation between popularity and liveness = -0.0551223807987834

Correlation between popularity and loudness = 0.21262438857740562

Correlation between popularity and speechiness = -0.13917549272142177

Correlation between popularity and tempo = 0.05900305207431799

Correlation between popularity and valence = -0.105846839252951

