

Datasets

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Chart Performance

Tracks

Artists

Mapping

Audio Features (1)

Audio Features (2)

This dataset provides information about how tracks perform on Billboard Top 50 weekly charts from 2000 to 2024.

File:

`chart_positions`

Columns:

`chart_week`

The week of the chart in a string format (e.g., "2024-10-05").

`list_position`

The position of the track on the chart during that week, with 1 being the top position.

`track_id`

A unique identifier for each track.

Legend

Primary Key

Foreign Key

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Audio Features (1)

Audio Features (2)

This dataset contains general metadata about tracks, including their release information.

Table:

tracks

Columns:

track_id: str

A unique identifier for each track.

name: str

The name of the track.

duration_ms: int

The length of the track in milliseconds.

release_date: str

The date when the track was released.

album_type: str

The type of album the track is from (e.g., single, album).

explicit: bool

A boolean indicating whether the track contains explicit content.

Legend

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Audio Features (1)

Audio Features (2)

This dataset contains information about artists and their current popularity.

Table:

artists

Columns:

`artist_id`: str

A unique identifier for each artist.

`name`: str

The name of the artist.

`popularity`: int

A numeric score (0-100) representing how popular the artist is on Spotify right now. A higher number means more popularity.

`followers`: int

The number of people following the artist on Spotify.

Legend

Primary Key

Foreign Key

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Audio Features (1)

Audio Features (2)

This dataset links artists with the tracks they have created. Remember that one track may have multiple artists!

Table:

`tracks_artists_mapping`

Columns:

`artist_id`: str

A unique identifier for each artist.

`track_id`: str

A unique identifier for each track.

Legend

Primary Key

Foreign Key

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Audio Features (1)

Audio Features (2)

This dataset contains specific datapoints about the audio features of the tracks.

Table:

`audio_features`

Columns:

track_id: str

A unique identifier for each track.

danceability: float

Value (0-1) representing how suitable the track is for dancing based on tempo, rhythm stability, beat strength, and regularity.

energy: float

Value (0-1) that measures the intensity and activity of a track. Higher values represent more energetic songs.

key: int

Representing the musical key of the track.

loudness: float

Value (0-1) representing the overall loudness of a track in decibels (dB).

mode: int

Value representing the modality (major or minor) of the track, where 1 = major and 0 = minor.

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Columns:

`speechiness: float`

Value (0-1) that detects the presence of spoken words in the track. Tracks closer to 1 are more speech-heavy.

`acousticness: float`

Value (0-1) that indicates the likelihood that the track is acoustic.

`instrumentalness: float`

Value (0-1) predicting whether a track contains no vocals.

`liveness: float`

Value (0-1) that detects the presence of a live audience in the recording.

`valence: float`

Value (0-1) describing the musical positiveness conveyed by a track, where higher values indicate more positive emotions.

`tempo: float`

Value representing the track's tempo in beats per minute (BPM).

`time_signature: int`

Value representing the overall time signature of the track.

Legend

Primary Key

Foreign Key