Field Definitions

Field Name	Data Type	Description
valence	float64	Musical positiveness conveyed by a track. Ranges from 0.0 to 1.0. High valence tracks sound more positive (happy, cheerful, euphoric), while low valence tracks sound more negative (sad, depressed, angry).
year	int64	The year the track was released. Represents the original release year of the recording.
acousticness	float64	Confidence measure of whether the track is acoustic. Ranges from 0.0 to 1.0, with 1.0 representing high confidence that the track is acoustic (minimal electronic instrumentation).
artists	string	Artist(s) who performed or created the track. May contain multiple artists separated by delimiters if the track is a collaboration.
danceability	float64	A measure ranges from 0.0 to 1.0 indicates how suitable a track is for dancing based on a combination of musical elements .
energy	float64	A measure ranges from 0.0 to 1.0 indicates intensity and activity in a track. Energy is influenced by factors such as loudness, dynamic range, tempo, and timbre.
explicit	int64	Explicit content indicator. Binary flag where 1 indicates the track contains explicit content (profanity, violence, etc.) and 0 indicates clean content.
id	string	Unique identifier for each track. Used as the primary key to distinguish individual songs in the dataset.

instrumentalness	float64	Predicts whether a track contains no vocals. Ranges from 0.0 to 1.0. Values above 0.5 represent instrumental tracks. The closer to 1.0, the greater likelihood the track contains no vocal content. Rap or spoken word tracks are clearly "vocal".
Key	int64	The musical key of the track, represented as an integer using pitch class notation. Values range from 0 to 11
liveness	float64	Detects the presence of an audience in the recording. Ranges from 0.0 to 1.0. Higher values represent an increased probability that the track was performed live. Values above 0.8 strongly suggest the track is live.
loudness	int64	The overall loudness of a track measured in decibels (dB). Typical values range from -60 dB to 0 dB, where values closer to 0 indicate louder tracks.
mode	int64	Musical mode (major or minor) of the track. Binary value where 1 represents major scale and 0 represents minor scale. Indicates the type of scale from which the melodic content is derived.
name	string	The title of the track. Contains the official name of the song as it appears in the music catalog.
popularity	float64	Popularity score of the track. Typically ranges from 0-100, with higher values indicating more popular tracks based on streaming data and user engagement.
release_date	datetime64[ns]	Complete release date of the track including day, month, and year. Provides precise temporal information about when the track became available.

speechiness	float64	Detects the presence of spoken words in a track. Ranges from 0.0 to 1.0. Values above 0.66 indicate tracks made primarily of spoken words (podcasts, audiobooks). Values between 0.33-0.66 may contain both music and speech (rap music). Values below 0.33 represent music and non-speech tracks.
tempo	string	Estimated tempo of the track in beats per minute (BPM). Stored as string but represents the overall pace or speed of the recording. Typical values range from 50-200 BPM.
Genre	string	Musical genre classification of the track. Categories may include pop, rock, hip-hop, electronic, classical, jazz, etc.
duration_min	float64	Duration of the track in minutes. Represents the total length of the audio recording as a decimal value (e.g., 3.5 = 3 minutes 30 seconds).