#### Table: **Genres**

Column Name	Description	Data Type	Column Size Format		Key
	Unique identification code for the library containing all the				
libraryID	playlists and collections of music of each individual user	int	7	AA99999	FK
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
songToLibrary	Date song was added to library	datetime	8	YYYY/MM/DD	
lastPlayed	Indicated when song from library was last played	varchar	45		

# Table: **LibrarySongs**

Column Name	Description	Data Type	Column Size Format		Key
	Unique identification code for the library containing all the				
libraryID	playlists and collections of music of each individual user	int	7	AA99999	FK
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
songToLibrary	Date song was added to library	datetime	8	YYYY/MM/DD	
lastPlayed	Indicated when song from library was last played	varchar	45		

#### Table: MusicLibraries

Column Name	Description	Data Type	Column Size Format		Key
	Unique identification code for the library containing all the				
libraryID	playlists and collections of music of each individual user	int	7	AA99999	PK
	Unique identification code that represents each individual				
userID	user account with a series of varied characters	varchar	12		FK
	The name of each individual library characterized by the				
libraryname	user's choosing	varchar	45		

# Table: PlayCount

Column Name	Description	Data Type	Column Size Fo	ormat	Key
	The unique identifier that represents the cumulative				
playCountID	number of times a song is played by each individual user	int	25		PK
	The aggregation of instances of a song played by each				
playCount	individual user	int	10	9999	
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
	Represents the number of times a song is skipped. Used to				
skipCount	formulate the algorithm for each user	int	10		

# Table: PlayerSessions

Column Name	Description	Data Type	Column Size	Column Size Format	
	Unique identifier for each session of time spent on the				
sessionID	webpage. Stores historical data.	int	15		PK
	Unique identification code that represents each individual				
userID	user account with a series of varied characters	varchar	30		FK
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
startTime	The time the session begins based on time-zone time data.	datetime	12	YYYY/MM/DD, 12:59	
endTime	The time the session ends based on time-zone time data.	datetime	12	YYYY/MM/DD, 12:59	)

Table: Playlists

Column Name	Description	Data Type	Column Size	Format	Key
	Unique identification code that represents each playlist				
playlistID	made within a library.	int	15		PK
playlistName	Name given to a playlist determined by the user.	varchar	45		
	Unique identification code that represents each individual				
userID	user account with a series of varied characters	varchar	12		FK
	Represents whether the playlist is publicly viewable or				
privacyType	private playlist	varchar	45		
playlistCreation	When the playlist was created in the user's music library	datetime	8	YYYY/MM/DD	
likeCount	Represents the number of users who have liked a song	varchar	45		

### Table: PlaylistSongs

Column Name	Description	Data Type	Column Size Format		Key
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
	Unique identification code that represents each playlist				
playlistID	made within a library.	int	15		FK
songToPlaylist	Date the song was added to the associated playlist	datetime	8	YYYY/MM/DD	

# Table: SongGenres

Column Name	Description	Data Type	Column Size Format		Key
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
	Unique indentification code that represents each genre of				
genreID	music within the Music Player database.	int	15		FK
	Represents the importance level of the genre for songs				
genreRelevance	with multiple genres in the form of a percentage	decimal	5	999.99	
dateAssigned	The date the genre was assigned to the song	datetime	12	YYYY/MM/DD, 00:00	

### Table: Songs

Description	Data Type	Column Size	Format	Key
Unique identification code for each song within the Music				
Player database	int	20		PK
The song title given by the artist within the Music Player				
database	varchar	45		
The artist who has the rights to the music and individual				
songs, including collaborations. Can be multiple artists on				
each song with varying roles	varchar	45		
The album or collection to which songs belong to under an				
artist. Not a mandatory category.	varchar	45		
The length of each song given by time characters.	datetime	4	0:00	
The genre category to which songs, artists and albums				
belong to. Multiple genres can apply to each of these				
attributes.	varchar	45		
Represents the date the song was officially released on the				
platform	datetime	8	YYYY/MM/DD	
	Unique identification code for each song within the Music Player database The song title given by the artist within the Music Player database The artist who has the rights to the music and individual songs, including collaborations. Can be multiple artists on each song with varying roles The album or collection to which songs belong to under an artist. Not a mandatory category. The length of each song given by time characters. The genre category to which songs, artists and albums belong to. Multiple genres can apply to each of these attributes. Represents the date the song was officially released on the	Unique identification code for each song within the Music Player database int The song title given by the artist within the Music Player database varchar The artist who has the rights to the music and individual songs, including collaborations. Can be multiple artists on each song with varying roles varchar The album or collection to which songs belong to under an artist. Not a mandatory category. varchar The length of each song given by time characters. datetime The genre category to which songs, artists and albums belong to. Multiple genres can apply to each of these attributes. varchar Represents the date the song was officially released on the	Unique identification code for each song within the Music Player database int 20 The song title given by the artist within the Music Player database varchar 45 The artist who has the rights to the music and individual songs, including collaborations. Can be multiple artists on each song with varying roles varchar 45 The album or collection to which songs belong to under an artist. Not a mandatory category. varchar 45 The length of each song given by time characters. datetime 4 The genre category to which songs, artists and albums belong to. Multiple genres can apply to each of these attributes. varchar 45 Represents the date the song was officially released on the	Unique identification code for each song within the Music Player database int 20 The song title given by the artist within the Music Player database varchar 45 The artist who has the rights to the music and individual songs, including collaborations. Can be multiple artists on each song with varying roles varchar 45 The album or collection to which songs belong to under an artist. Not a mandatory category. varchar 45 The length of each song given by time characters. datetime 4 0:00 The genre category to which songs, artists and albums belong to. Multiple genres can apply to each of these attributes. varchar 45 Represents the date the song was officially released on the

# Table: **TopFiveSongs**

Column Name	Description	Data Type	Column Size Format		Key
	The unique identifier that represents the ranking of a user's				
topFiveID	top 5 songs based on the play count related to the song ID.	int	15		PK
	The position of each song within the ranking system of 5				
position	songs.	int	1		9
	Unique identification code for each song within the Music				
songID	Player database	int	20		FK
	The unique identifier that represents the cumulative				
playCountID	number of times a song is played by each individual user	int	25		FK

### Table: **Users**

Column Name	Description	Data Type	Column	Format	Key
	Unique identification code that represents each individual				
userID	user account with a series of varied characters	varchar	12		PK
	Sequence of simple characters that identify a user on the				
username	front-end of the platform, typically needs to be unique	varchar	45		
lastName	The registered last name of the user	varchar	45		
firstName	the registered first name of the user	varchar	45		
	The date of birth of the user indicated in their login				
dateOfBirth	information	datetime	8	YYYY/MM/DD	
	The age of the user indicated in their login information,				
age	used for privacy, security and parental controls	int	3	99	99