

247Music Data Dictionary

The 247Music database consists of 6 tables. Each table is described below. A description of how to connect to the database is given at the end of this document.

Table Name: *track*

This table provides details about songs (tracks), the recording artist (artist) and the album on which the song was released. Your database credentials will only have **Select** privileges for this table.

Column	Type	Null	Default	Comments
track_id	int	No		This is an auto incrementing number to uniquely identify a table row. It is the unique song identification number.
track_title	varchar(200)	No		Song title
artist_id	int	No		Recording artist id
track_length	varchar(6)	Yes	NULL	Playing length of the song in minutes and seconds (eg, 2:52)
spotify_track	varchar(40)	Yes	NULL	Track identifier on Spotify (for play a short preview clip)
album_id	int	No		unique album identification number

Table Name: *artist*

This table provides details about the recording artist (artist). Your database credentials will only have **Select** privileges for this table.

Column	Type	Null	Default	Comments
artist_id	int	No		This is an auto incrementing number to uniquely identify a table row. It is the unique artist identification number
artist_name	varchar(200)	No		Recording artist name
thumbnail	varchar(200)	Yes	Null	Filename of thumbnail image for the artist

Table Name: *album*

This table provides details about music albums. Your database credentials will only have **Select** privileges for this table.

Column	Type	Null	Default	Comments
album_id	int	No		This is an auto incrementing number to uniquely identify a table row. It is the unique album identification number
album_name	varchar(200)	No		Album name
album_date	year	Yes	Null	Year of release of album
thumbnail	varchar(200)	Yes	Null	Filename of thumbnail image for the album
artist_id	int	No		unique artist identification number

Table Name: *membership*

This table provides details about members (subscribers) of 24/7Music. It provides their personal information, and login credentials (username and password). Your TWA student database credentials will only have **Select** privileges for this table.

Note: passwords are encrypted using the **sha256** algorithm. For testing purposes, the plain text passwords are given in the **Member Login Credentials** document.

Column	Type	Null	Default	Comments
member_id	int	No		This is an auto incrementing number to uniquely identify a table row. It is the unique member id
username	varchar(100)	No		member username. This is used by the member to login to the web application
surname	varchar(50)	No		member surname
firstname	varchar(50)	No		member first name
password	varchar(300)	No		member password. This is used for authentication in combination with the username. The value stored in this field is encrypted using the sha256 algorithm. See above note .
category	varchar(10)	No		The type of membership held by the member. Possible values are Free, Premium, Family

Table Name: *memberPlaylist*

This table provides details about Playlists that have been created by members. A member may have zero or many playlists. Your TWA student database credentials will have **Select** and **Insert** privileges for this table.

Column	Type	Null	Default	Comments
playlist_id	int	No		This is an auto incrementing number to uniquely identify a table row. You do not insert this number into the database it is determined automatically. It is the unique playlist identification.
member_id	int	No		member username.
playlist_name	varchar(30)	No		Name of the playlist supplied by the member

Table Name: *playlist*

This table identifies the tracks for each playlist. A playlist may have zero or many tracks. Your TWA student database credentials will have **Select** and **Insert** privileges for this table.

Column	Type	Null	Default	Comments
id	int	No		This is an auto incrementing number to uniquely identify a table row. You do not insert this number into the database it is determined automatically.
playlist_id	int	No		unique playlist identification number.
track_id	int	No		unique song identification number.

Connecting to the 247Music Database

To connect to the **247Music** database use the following in your php script

```
$dbConn = new mysqli("localhost", "TWA_student", "TWA_2020_Autumn", "247Music");
if($dbConn->connect_error) {
    die("Failed to connect to database " . $dbConn->connect_error);
}
```

Note

The tables within the **247Music** database have already been populated with some data. Use the supplied `allTables.php` script to view the data (make sure you use the connection information as indicated above).