



WonderBeats Phase 2: Project Overview

404: Team Not Found Members:

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Your report should have the following components:

1. A list of relations and their attributes.

- Write a detailed description of each attribute (for each table), its purpose, and data type.
- Indicate each attribute's default value (if any) or if the attribute can be set to 'null'.
- Indicate the primary key and foreign keys (if any) for each relation.
- Explain the actions taken on any foreign key when the primary key (that the foreign key refers to) is deleted

(For example no action, delete cascade, set null, or set default)

1. USER

Attributes:

ID

Type: Int

No default value, cannot be NULL

Each user will have a unique ID for their account.

First_name

Type: CHARVAR(15)

Default value = NULL

First name of the user

Last_name

Type: String

Default value = NULL

Last name of the user

Password

Type: CHARVAR(15)

No default value, cannot be NULL

Each user will have a password that coupled with their ID will allow them to log in to their account

Primary Key: ID

Foreign Key(s): None

2. LISTENER

Attributes:

ListenerID
Type: INT
No default value, cannot be null
Listeners' IDs will link them to all of their playlists

Primary Key: ListenerID
Foreign Key(s): ListenerID, references USER(ID), if user ID deleted, listener with matching ID will be deleted as well. If user ID updated, value will cascade to ListenerID

3. CONTENT CREATOR

Attributes:
CreatorID
Type: INT
No default value, cannot be null
Content creators' IDs will link them to all of their songs

Primary Key: CreatorID
Foreign Key(s): CreatorID, references USER(ID), if user ID deleted, creator with matching ID will be deleted as well. If user ID updated, value will cascade to CreatorID

4. ADMIN

Attributes:
AdminID INT Not Null Default = 0- indicates non used entry
This attribute is a way to track each admin user by number. This entity has subclasses that each have a different role and are all tracked as admin users with in this entity class
Primary Key: AdminID
Foreign Key(s): AdminID, on delete set null, on update cascade

5. SECURITY

Attributes:
SecurityID INT Not Null Default = 0- indicates non used entry
This attribute is a way to track each security personnel by number. It will inherit its value from the admin entity. This is needed to track which security personnel approved which login attempt.

Verify login boolean not null default= false
This attribute is to check that the user using an account has the correct credentials. It will turn true once the account has been verified on login.

Primary Key: SecurityID
Foreign Key(s): SecurityID, on delete set null, on update cascade

6. CUSTOMER SUPPORT

Attributes:

SupportID INT Not Null Default = 0- indicates non used entry
This attribute is a way to track each customer support representative by number. It will inherit its value from the admin entity

Primary Key: SupportID

Foreign Key(s): SupportID, on delete set null, on update cascade

7. ACCOUNT SUPPORT

Attributes:

SupportID INT Not Null Default = 0- indicates non used entry
This attribute is a way to track each customer support representative by number. It will inherit its value from the admin entity. This is needed to track which representative is helping resolve an issue.

ListenerID INT Not Null Default = 0 - indicates non used entry
This attribute is a way to track each listener by number. It will inherit its value from the user entity. It is needed here to track the listeners account that needs help from customer support

Primary Key: SupportID, ListenerID

Foreign Key(s): SupportID, ListenerID for both, on delete set null, on update cascade

8. SONG EXPERT

Attributes:

ExpertID INT Not Null
Default = 0 (indicates non used entry)
This attribute is a way to track each song expert by number. It will inherit its value from the admin entity. This is needed to track which song expert is assigned to analyze a specific song.

Primary Key: ExpertID

9. SONG

Attributes:

Title CHARVAR(15)

Default = NULL (indicates non used entry)

This attribute is used to identify the title of the song. This is needed to track the song in various relationships.

Pitch CHARVAR(2)

Default = NULL (indicates non used entry)

This attribute is used to identify the song's pitch on a scale from A to G#.

BPM INT Not null

Default = 0 (indicates non used entry)

This attribute is used to identify the song's BPM.

Primary Key: Title

Foreign Key(s): CreatorID – On delete cascade, on update cascade.

10. PLAYLIST

Attributes:

Name CHARVAR(15)

Default = NULL (indicates non used entry)

This attribute is used to identify the title of the playlist. This is needed to track the playlist in various relationships.

Date_created DATE

Default = NULL (indicates non used entry)

This attribute is used to identify the date of the playlist's creation.

Primary Key: Name

Foreign Key(s): ListenerID – On delete cascade, on update cascade.

11. CONTAINS

Attributes:

Title

Type: CHARVAR(15)

No default value, cannot be null

Holds title of song contained in playlist

CreatorID

Type: Int

No default value, cannot be null

Holds the account ID of the creator of the song contained in the playlist

PlaylistName

Type: CHARVAR(15)

No default value, cannot be null
Holds name of playlist the song is part of

Primary Key: Title, CreatorID, PlaylistName
Foreign Key(s): Title - On delete cascade, on update cascade
CreatorID - On delete cascade, on update cascade
PlaylistName - on delete cascade, on update cascade

12. FOLLOWS

Attributes:
CreatorID
Type: Int
No default value, cannot be null
ID of creator followed by listener

ListenerID
Type: Int
No default value, cannot be null
ID of listener who is following creator

Primary Key: CreatorID, ListenerID
Foreign Key(s): CreatorID - On delete cascade, on update cascade
ListenerID - On delete cascade, on update cascade