Spotify- Conceptual Data Model Diagram

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Diagram Summary:

This is our groups Conceptual Data Model for this project. We will use this as a baseline to create the logical data model. This may introduce schema/relationship changes as the design process progresses.

Our group wants to store user settings and all of the assets (Songs, Podcasts, playlists)

User Stories/Requirements are outlined in another document.

Diagram Key

○ Proposed table

Users

Users	
user_id	INT, PK
user_firstname	VARCHAR(50)
user_lastname	VARCHAR(50)
user_email	VARCHAR(50)
user_password	VARCHAR(50)
** Password Req**	Constraint
user_item_id	INT, connects other tables

Podcasts

Podcasts	
podcast_ID	INT, PK, Not Null
item_id	INT, Not Null , FK
podcast_title	VARCHAR(50)
podcast_artist	VARCHAR(50)
podcast_episode_number	INT
podcast_description	VARCHAR(50)

Items

Items	
item_id	INT
item_title	VARCHAR(50)
item_genre_name	VARCHAR(50)
item_duration	Time
item_album_name	VARCHAR(50)
item_album_song_count	INT
item_release_date	DATETIME
item_playlist_name	VARCHAR(50)
item_type_id	INT
item_genre_id	INT
item_song_id	INT
item_playlist_id	INT

Songs

Songs	
song_id	INT, PK, Not Null
song_name	VARCHAR(50)
song_artist_id	INT, FK, Not Null
song_album_id	INT, FK, Not NUll
song_duration	INT Not Null
song_release_date	DATE
song_genre	VARCHAR(50) Not Null

User Settings

User Settings	
setting_id	INT, PK
setting_lanugage	VARCHAR(50)
setting_normalize_volume	BOOLEAN
setting_volume_level	VARCHAR
setting_stream_quality	VARCHAR(50)
setting_user_id	INT, FK

Items Lookup

Items Lookup	
Item_type_id	INT, PK
item_type_name	VARCHAR(50)

Playlists

Playlists	
playlist_id	INT, PK, Not Null
item_id	INT, FK
playlist_user_id	INT, FK
playlist_liked_item_id	INT FK
playlist_liked_item_name	VARCHAR(50)
plalist_creation_date	DATETIME

Genres Lookup

Genres Lookup	
genre_id	INT, PK, Not Null
genre_name	VARCHAR(50), Not Null

ItemsGenres

ItemsGenres	
genre_id	INT
item_id	INT

ItemPlaylists

ItemPlaylists	
playlist_id	INT
item_id	INT