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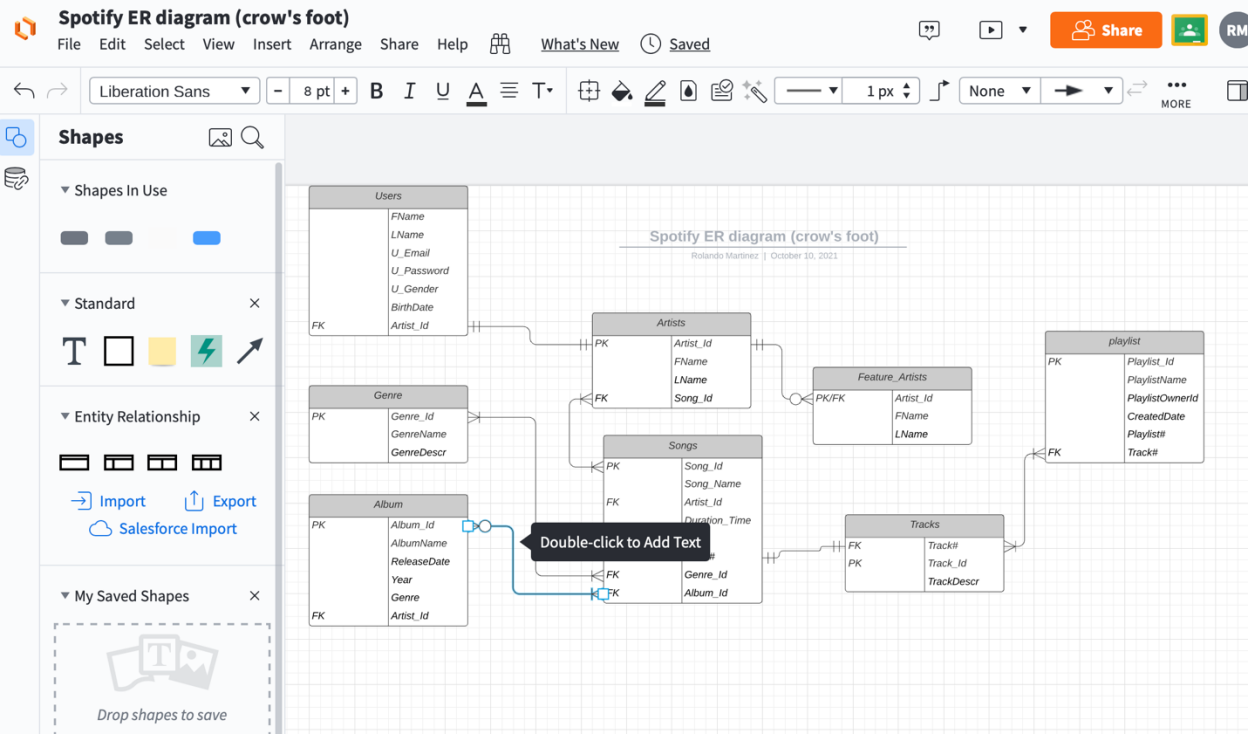
Database Project Assignment 3: Entity Relationship Diagram & Documentation



For the Users table I have included first and last name, as well as general account information like user email and password, gender, birthdate, and Artist_Id. I have included a foreign key for this table which is Artist_Id, reason why is because the artists are the ones with the accounts, there is no primary keys in this table, this table has a relationship with artists/Feature_Artists the reason why is because the artist are the ones who are the users and will be posting the music. So, I have connected these tables together because artist can only have one user and users can be made by one and only one artist.

For the Artist Table I have included Artist_Id, first and last name, as well as Song_Id, the foreign key I've included is Song_Id and a primary key of Artist_Id. This table has a relationship with featured artists and songs. The table relationship here is Featured_Artists can have one and only one artist, but artists can have zero or many featured artists in a project. And the relationship between Artist and songs is artists can have one or many songs and songs can have one or many artists.

For the Genre table I have included genre name and genre description as well as genre_Id as the primary key. I've included this table because there are artists who prefer one genre or to switch around depending on song. I have connected this table to the songs because genre is connected to songs which means that genre can have one or many songs, but songs can have one or many genres.

For the Album table I have included Album_Id as Primary key and AlbumName, ReleaseDate, Year, Genre, and Artist_Id as foreign key. I have connected this table to songs because songs can have zero or many albums and albums can have one or many songs.

For the songs table I have included Song_Id as the primary key, Artist_Id as foreign key, Genre_Id as foreign key, and Album_Id as foreign key. On top of that I have Song_Name, Duration_Time, Year, and Track#. I have connected this table to Genre, album, artists, and playlists. Reason why is because genre can have one or many songs, but songs can have one or many genres. Songs can have zero or many albums and albums can have one or many songs. The relationship between artist and songs is artists can have one or many songs and songs can have one or many artists.

For the Featured_Artists table I have included Artist_Id, FName and LName. The primary key here would be Artists_Id. The relationship between tables is Featured_Artists to artist. Artist can have zero to many featured artists and featured artists can have one and only one artist.

For the Playlist table I have included Playlist_Id, PlaylistName, PlaylistOwnerId, CreatedDate, and Playlist#. I have connected this table with tracks, the relationship here would be tracks can have one or many playlists, but playlists can have one or many tracks. Tracks then connects to songs to build that relationship as well.