CSCI 466 Final Project

Entity/Relationship Descriptions

Team SQL

April 11, 2021

Entities:

1. **Song:** The song entity holds information about a song being sung at the karaoke bar. Relevant information about the song includes a unique identifier named songID, the name of the song, the id of the band.
2. **File:** The file entity holds information about the specific song file being sent to the DJ at the karaoke bar. Relevant information about the song file includes a unique identifier named fileID, and a description of the specific version of the song (if the file is a remix).
3. **Queue:** The queue entity holds information about the queue of songs available for the DJ at the bar to choose from. Relevant information about the queue includes a unique identifier named queueNumber, a Boolean value whether the karaoke singer paid to sing the song (for premium queue purposes), and a customerNumber to identify the customer singing the song in the queue.
4. **Band:** The band entity holds information about the bands of the songs available to sing. Relevant information about the band includes a unique identifier named bandID and the name of the band.
5. **Contributor:** The contributor entity holds information about someone who contributed to a song but is not the band/artist. Relevant information about a contributor includes a unique identifier named contributorID, the name of the contributor.
6. **Instruments:** The instrument entity holds information about the instruments that a contributor can play. Relevant information about the instrument only includes a unique identifier which holds the name of the instrument.

Relationships:

1. **Version:** The version relationship represents the one-to-many relationship between one song and the many different versions/files it can have.
2. **Chosen:** The chosen relationship represents the one-to-one relationship between one file and the one queue that song/file is currently in.
3. **Played By:** The played by relationship represents the one-to-many relationship between one band and the many songs that that band plays.
4. **Contributed:** The contributed relationship represents the many-to-many relationship between many contributors and the many songs that a contributor can contribute to.
5. **Plays:** The plays relationship represents the many-to-many relationship between many contributors and the many instruments that a contributor can play.