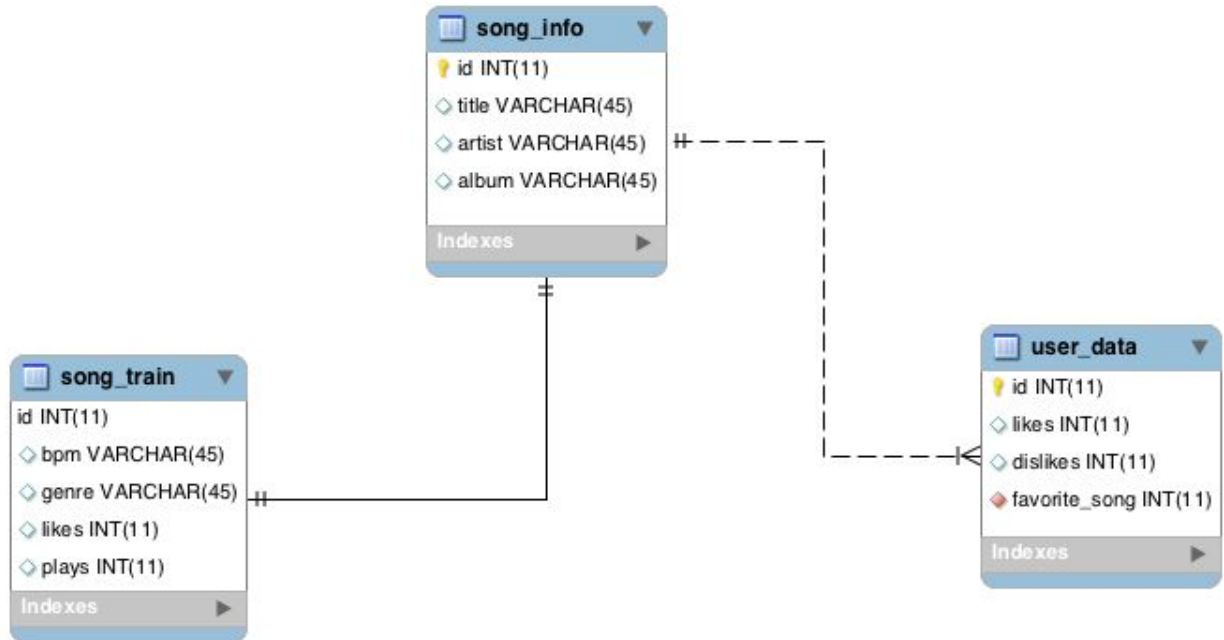# Milestone 3

A screenshot of our database schema (ER diagram):

Screenshots of data in our tables (taken from MySQL Workbench):

id	bpm	genre	likes	plays
1	172	Soul	0	0
2	100	Soul	0	0
3	102	Soul	0	0
4	202	Soul	0	0
5	105	Soul	0	0

id	likes	dislikes	favorite_song
1	5	0	4
2	3	2	5
3	1	4	2
4	2	3	3
5	0	5	5

id	title	artist	album
1	A Change Is Gonna Come	Sam Cooke	A Change Is Gonna Come
2	Me and Mrs. Jones	Billy Paul	360 Degrees of Billy Paul
3	Let's Stay Together	Al Green	Let's Stay Together
4	What's Going On?	Marvin Gaye	What's Going On?
5	My Girl	The Temptations	Emperors of Soul

We did not use a .sql file to populate our database initially - we used MySQL Workbench's tools for creating each of the tables, and added the data in the table inspector inside MySQL Workbench.

We selected MySQL for our database, as it is very well supported in Node JS (what we're coding our backend server in).
Database specifications:
Song Training
        5 Title
        5 Artist
        5 Album
Song Info
        5 Bpm
        5 Genre
        5 Likes
        5 Plays
User Data
        5 ID
        5 Likes
        5 Dislikes
        5 Fav Song

The machine learning program will organize the songs in a playlist based in an order that flows well. The machine will be able to learn better by reading in the user data to find if it is playing songs that flow well or not. The song info will also better help the machine learn which songs will flow best together. The song training info is also another aspect that will help the program and it is also data for the user to know what song is playing to want to play in the future.