ITEC 3200

Divine Music Group

Barbara Mason and Don Garcia

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Executive Summary

Objective

This database is designed to assist **Divine Music Group** with tracking and storing information about their record labels, producers, artists, and songs.

Goals

Our goal with this database project is to supply Divine Music Group with a simple and manageable platform to store and retrieve data relating to company operations. We will also create useful queries to assist to retrieve information within the company relating to record labels, producers, artists, and songs.

Solution

The solution is to develop tables of information within the database, but also establish relationships between them. The tables created consists of the following: *Record Label, Artists, Songs, Artist-has-Songs,* and *Producers*. These tables represent the main entities of the application and contain links that define the relationships between entities. Using these tables, we can create the queries that will provide the necessary information needed to manage this aspect of the company.

This project will be implemented in using SQL in MySQL Workbench.

Benefits to Users

This database will serve as a useful tool for providing information in a simple, quick, and reliable way. It will help to identify trends within the company, overall performance within the music group, and customer preferences.
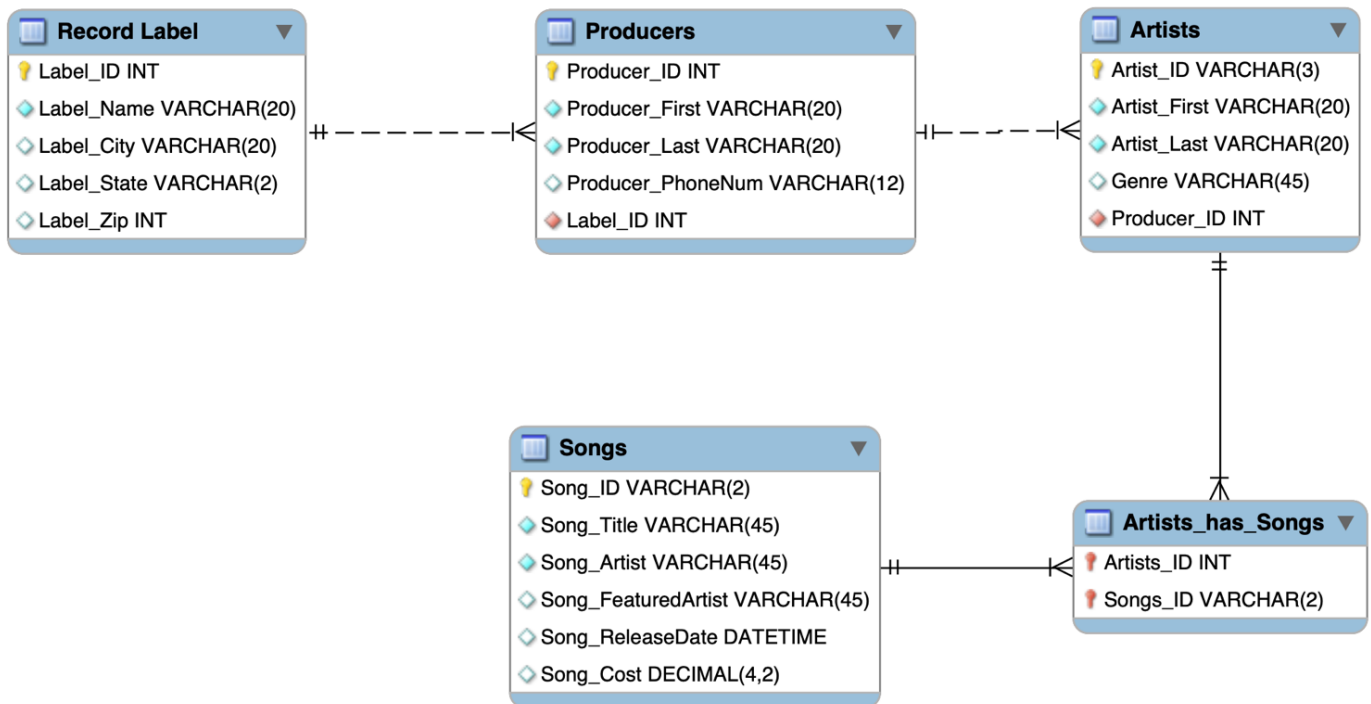
Project Outline

The project will contain the following major components:

- Entity-Relationship Diagram
- Table Implementation
- Queries

Entity-Relationship Diagram

Record Label
- 🔑 Label_ID INT
- 🔹 Label_Name VARCHAR(20)
- 🔹 Label_City VARCHAR(20)
- 🔹 Label_State VARCHAR(2)
- 🔹 Label_Zip INT

Producers
- 🔑 Producer_ID INT
- 🔹 Producer_First VARCHAR(20)
- 🔹 Producer_Last VARCHAR(20)
- 🔹 Producer_PhoneNum VARCHAR(12)
- 🔸 Label_ID INT

Artists
- 🔑 Artist_ID VARCHAR(3)
- 🔹 Artist_First VARCHAR(20)
- 🔹 Artist_Last VARCHAR(20)
- 🔹 Genre VARCHAR(45)
- 🔸 Producer_ID INT

Songs
- 🔑 Song_ID VARCHAR(2)
- 🔹 Song_Title VARCHAR(45)
- 🔹 Song_Artist VARCHAR(45)
- 🔹 Song_FeaturedArtist VARCHAR(45)
- 🔹 Song_ReleaseDate DATETIME
- 🔹 Song_Cost DECIMAL(4,2)

Artists_has_Songs
- 🔑 Artists_ID INT
- 🔑 Songs_ID VARCHAR(2)

Table Implementation

Artists

artist_id	Artist_First	Artist_Last	Genre	Prod_ID
A1	Ariana	Grande	Pop	50
A10	Biggie	Smalls	Rap	120
A11	Terrace	Maine	Country	60
A12	Jill	Johnson	Rock	100
A13	Genna	Thomas	Imdustrial	70
A14	Nicki	Minaj	Rap	120
A2	Lil	Yachty	Rap	90
A3	Bruno	Mars	Pop	110
A4	Britney	Spears	Pop	70
A5	Trent	Reznor	Industrial	60
A6	Billy	Cyrus	Country	80
A7	George	Micheal	Rock	110
A8	Bucket	Head	Industrial	90
A9	Christina	Agulera	Pop	100

Songs

song_id	song_title	song_featured	song_release	song_cost
1	Pressure	NULL	2022-04-03	12.99
2	Olive	NULL	2022-09-17	9.99
3	Worthy	NULL	2022-05-27	10.99
4	Dont Go Chasing	NULL	2022-04-08	9.99
5	Follow the wind	James Baxter	1943-04-17	12.99
6	Coming Around	Baby Sol	2022-04-29	12.99
7	L.O.V.E	EARTHGANG, Jon Batiste & Sherwyn	2022-03-02	13.99
8	GODDTIME	NULL	2022-09-01	8.99
9	Major Love	NULL	2022-08-12	9.99
10	Lemonhaze	NULL	2022-09-15	12.99
11	You Gotta Resp...	Cory Wong	2022-04-22	9.99
12	Tightrope	NULL	2022-09-10	12.99
13	D.T.Y.O.B	NULL	2022-02-11	9.99
14	BREAKTHROUGH	SIRUP, Shin Sakiura	2022-09-12	12.99

Producers

Prod_ID	Prod_First	Prod_Last	Prod_PhoneNum	Label_ID
50	John	Smith	404-556-9900	10
60	Sam	Wilde	678-008-1045	11
70	Amber	Singh	334-124-7788	12
80	William	Bingham	302-278-6643	13
90	Jenna	Finn	543-223-7864	12
100	Edward	George	678-994-3789	15
110	Kimberly	Hahn	770-653-8852	20
120	Micheal	Jordan	678-867-5309	17

Record Labels

Label_ID	Label_Name	Label_City	Label_State	Label_ZIP
10	Core Music	Lawrenceville	GA	30043
11	Music Horde	Tallahasse	FL	28470
12	Love Records	Denver	CO	34889
13	Paradise Records	Atlanta	GA	30116
14	Sunshine Music	Wilmington	NC	27647
15	Chamber Records	Birmingham	AL	48738
16	Allied Music	Atlanta	GA	30116
17	Deep Records	San Diego	CA	57890
18	Music Pulse	Dallas	TX	36689
19	Lucky Streak Music	Boston	NY	65389
20	Island Records	Oklahoma City	OK	73689

Artist_has_Songs

artist_id	song_id
A8	1
A9	2
A10	3
A11	4
A12	5
A13	6
A14	7
A7	8
A6	9
A5	10
A4	11
A3	12
A2	13
A1	14

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Query Implementation

Query 1

- List Record Labels based in Atlanta Georgia.

Query 2

- List songs and their artist with the price of $12.99 released in 2022.

Query 3

- List artist with IDs between A1 and A8.

Query 4

- List which Record Label that specific Producers are affiliated with.

Query 5

- List titles and prices of current songs and songs with a 25 percent discount.

Query 6

- List all names of producers with the total amount of artists assigned to each one.

Query 7

List the Record Label Name and City for Record Labels located in the same city as Paradise

Records.