*A*

*Report*

*Submitted in partial fulfilment of the Requirements for the award of the Degree of* **BACHELOR OF ENGINEERING**

IN

## INFORMATION TECHNOLOGY

By

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**BONOFIED CERTIFICATE**

This is to certify that the project report titled “**Music Mania**” project work of B.Nikhita bearing hall ticket number 1602-19-737-084 who carried out this project under my supervision the IV semester for the academic year 2020-21

**Signature** **Signature**

**External Examine** B.Leelavathy

Assistant professor

ABSTRACT:-

Music mania is an application designed to provide maintenance of music related database. It has the information regarding users, artists and albums, songs. Users can access their playlist, downloaded songs and albums present in the application .This project has 9 tables .When you enter the data it is stored in the data base and is displayed as of when it is needed.

**SOFTWARE USED:**

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL\*Plus.

**SQL:**

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

REQUIREMENT ANALYSIS

List of tables:

*Music\_mania*

*Users*

*Songs*

*Artist*

*Albums*

*Your\_library*

*Music\_artists*

*Music\_users*

*Composed*

*Users\_library*

*Album\_songs*

List of attributes with their domain types:-

*Users:*

1. *Id\_no number(5)*
2. *User\_name varchar2(20)*
3. *Premium\_type varchar2(20)*

*Songs:*

1. *Song varchar2(20)*
2. *listeners number(5)*
3. *Album\_title*

*Artist:*

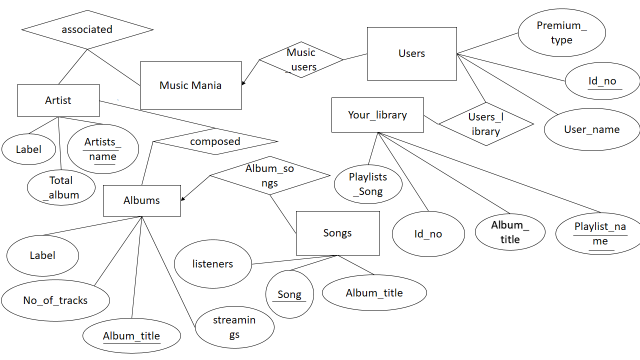
1. *Artists\_name varchar2(20)*
2. *Total\_album number(5)*
3. *Label varchar2(20)*

*Albums:*

1. *Album\_title varchar2(20)*
2. *No\_of\_tracks number(5)*
3. *Label varchar2(20)*
4. *streamings number(10)*

*Your\_library:*

1. *Id\_no number(5)*
2. *Playlists\_Song varchar2(20)*
3. *Album\_title varchar2(20)*
4. *Playlists\_name varchar(20)*

**

MAPPING CARDINALITY AND PARTICIATION

CONSTRAINTS:

Application can have any number of users, users can have only one account in the application, so it is one to many participation.

Artist can have many albums, album can be composed by many artists by collaborating, so it is many to many participation.

Album can have many songs, a song is present in only one album, so it is one to many participation.

*DDL COMMANDS:*

*create table Artist(*

*Artists\_name varchar2(20) primary key ,Total\_album number(5) ,Label varchar2(20));*

*create table Albums(*

*Album\_title varchar2(20) primary key ,No\_of\_tracks number(5),Label varchar2(20), Streamings number(10));*

*create table Songs(*

*Song varchar2(20) primary key ,listeners number(5) ,Album\_tilte varchar2(20));*

*create table Music\_mania(*

*Id\_no number(5) ,Artist\_name varchar2(20) ,foreign key(Id\_no) references Users ,foreign key(Artist\_name) references Artist);*

*create table Users(*

*Id\_no number(5) primary key ,User\_name varchar2(20), Premium\_type varchar2(20) );*

*create table Your\_library(*

*Id\_no number(5) ,Playlist\_name varchar2(20)primary key ,Playlists\_Song varchar(20) ,Album\_title varchar(20));*

*create table User\_library(*

*Id\_no number(5),Playlist\_name varchar2(20), foreign key(Id\_no) references Users, foreign key(Playlist\_name) references Your\_library);*

*create table Album\_songs(Song varchar2(20), Album\_title varchar2(20), foreign key(Song) references Songs ,foreign key (Album\_title) references Albums);*

*create table composed(Artists\_name varchar2(20) ,Album\_title varchar2(20), foreign key(Artists\_name) references Artist, foreign key(Album\_title) references Albums);*

*DML COMMANDS:*

*insert into Artist values(‘&Artists\_name’ ,&Total\_album ,’&Label’);*

*insert into Albums values(*

*‘&Album\_title’,&No\_of\_tracks ,’&Label’ ,&Streamings);*

*insert into Songs values(*

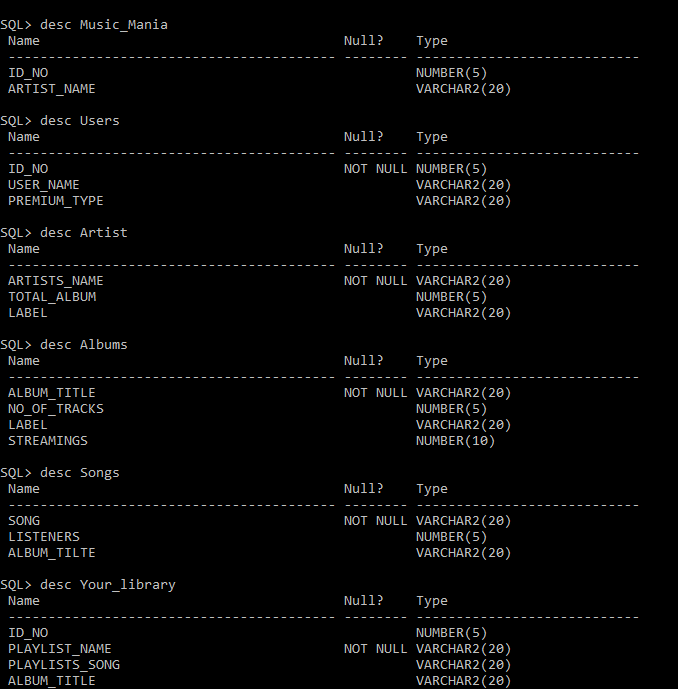
*‘&Song’ ,&listeners ,’&Album\_tilte’);*

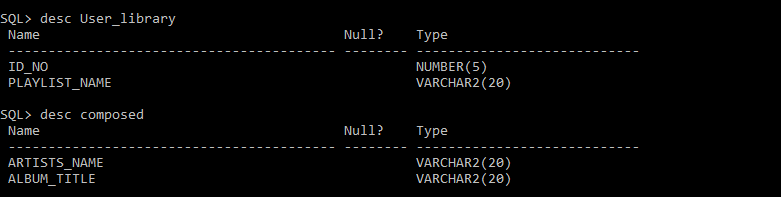
*insert into Users values(*

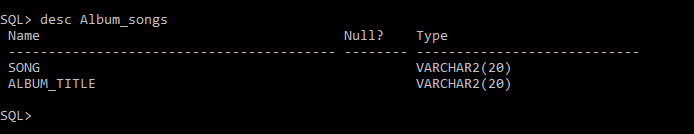
*&Id\_no ,’&User\_name’, ‘&Premium\_type’);*

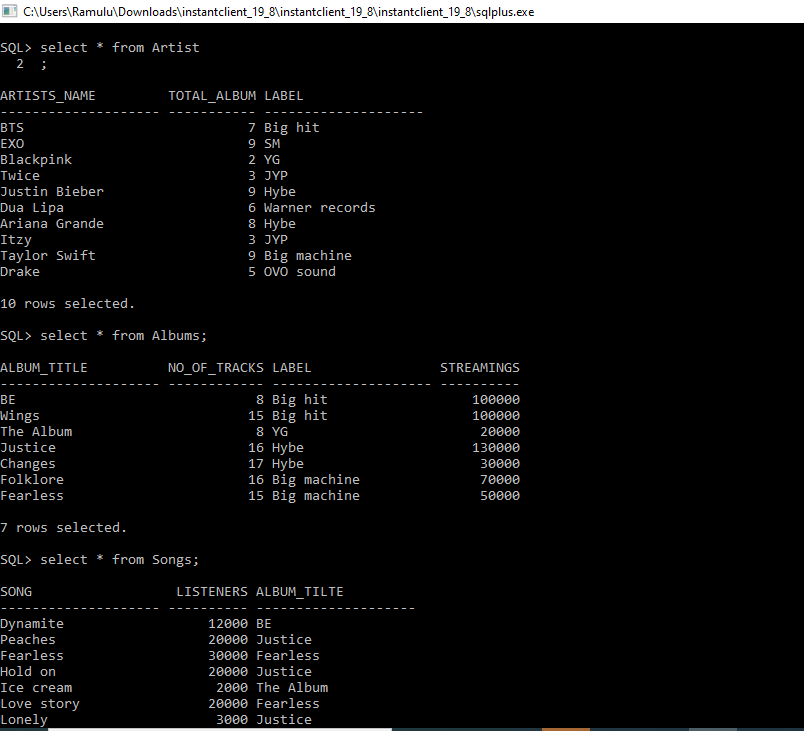
*insert into Your\_library values(&Id\_no,*

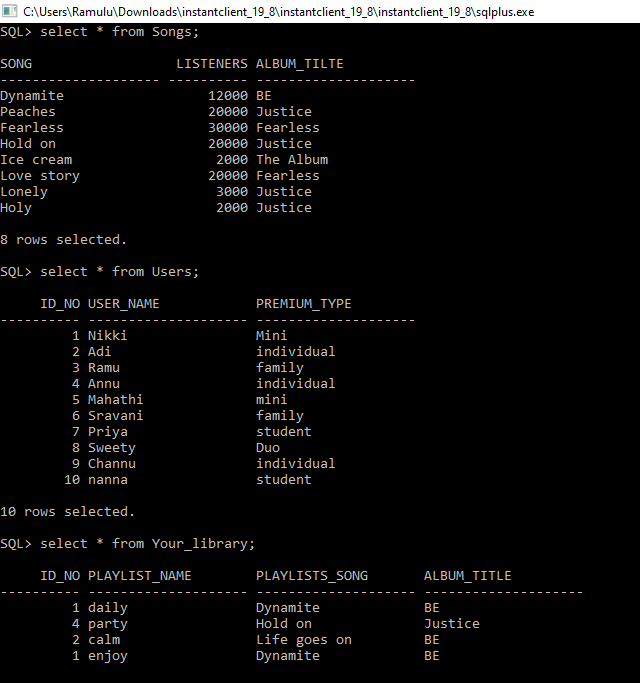
*‘&Playlist\_name’ ,’&Playlists\_Song’ ,’&Album\_title’);*

*SCREENSHOTS*

**

**

**

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**Java AWT:**

**Java AWT** (Abstract Window Toolkit) is an API to develop GUI or window-based applications in java.

Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavyweight i.e. its components are using the resources of OS.

The java.awt package provides classes for AWT API such

as TextField, Label, TextArea, RadioButton, CheckBox, Choice, List etc.

PROGRAM:

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.\*;

import java.text.ParseException;

import java.util.ArrayList;

import java.util.Date;

import javax.swing.\*;

import net.proteanit.sql.DbUtils;

public class dbms{

public static void main(String[] args) {

login();

}

}

public static Connection connect()

{

try {

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con = DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:RDBMS","it19737084","vasavi");

//System.out.println("Connected to MySQL");

return con;

}

catch (Exception ex) {

ex.printStackTrace();

}

return null;

}

public static void login() {

JFrame f=new JFrame("Login");//creating instance of JFrame

JLabel l1,l2;

l1=new JLabel("Username"); //Create label Username

l1.setBounds(30,15, 100,30); //x axis, y axis, width, height

l2=new JLabel("Id\_no"); //Create label id

l2.setBounds(30,50, 100,30);

JTextField F\_user = new JTextField(); //Create text field for username

F\_user.setBounds(110, 15, 200, 30);

JTextField F\_id=new JTextField(); //Create text field for id

F\_id.setBounds(110, 50, 200, 30);

JButton login\_but=new JButton("Login");//creating instance of JButton for Login Button

login\_but.setBounds(130,90,80,25);//Dimensions for button

login\_but.addActionListener(new ActionListener() { //Perform action

public void actionPerformed(ActionEvent e){

String user = F\_user.getText(); //Store username entered by the user in the variable "username"

String id = F\_id.getText(); //Store id entered by the user in the variable "id”

if(username.equals("")) //If username is null

{

admin\_menu();

}

else if(id.equals("")) //If id is null

{

admin\_menu();

}

else { //If both the fields are present then to login the user, check wether the user exists already

//System.out.println("Login connect");

Connection connection=connect(); //Connect to the database

try

{

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania"); //Use the database with the name "Music\_Maina"

String st = ("SELECT \* FROM USERS WHERE USER\_NAME='"+username+"' AND ID\_NO='"+id+"'"); //Retreive username and id from users

ResultSet rs = stmt.executeQuery(st); //Execute query

if(rs.next()==false) { //Move pointer below

System.out.print("No user");

JOptionPane.showMessageDialog(null,"Wrong Username/id!"); //Display Message

}

else {

user\_menu();

}

}

catch (Exception ex) {

ex.printStackTrace();

}

}

}

});

f.add(F\_id); //add password

f.add(login\_but);//adding button in JFrame

f.add(F\_user); //add user

f.add(l1); // add label1 i.e. for username

f.add(l2); // add label2 i.e. for id

f.setSize(400,180);//400 width and 500 height

f.setLayout(null);//using no layout managers

f.setVisible(true);//making the frame visible

f.setLocationRelativeTo(null);

}

public static void create() {

Connection connection=connect();

Statement stmt = connection.createStatement();

String sql = "CREATE DATABASE Music\_Mania";

stmt.executeUpdate(sql);

stmt.executeUpdate("USE Music\_Mania");

//Create Users Table

String sql1 = ("CREATE TABLE USERS(ID\_NO NUMBER(5) PRIMARY KEY, USER\_NAME VARCHAR2(20),PREMIUM\_TYPE VARCHAR2(20))");

stmt.executeUpdate(sql1);

//Create artists table

stmt.executeUpdate("CREATE TABLE ARTIST(ARTISTS\_NAME VARCHAR2(20) PRIMARY KEY, TOTAL\_ALBUM NUMBER(5), LABEL VARCHAR2(20))");

//Create albums Table

stmt.executeUpdate("CREATE TABLE ALBUM(ALBUM\_TITLE VARCHAR2(20) PRIMARY KEY, NO\_OF\_TRACKS NUMBER(5),LABEL VARCHAR2(20),STREAMINGS NUMBER(10))");

//create songs table

stmt.executeUpdate("CREATE TABLE SONGS(SONG VARCHAR2(20) PRIMARY KEY, LISTENERS NUMBER (5), ALBUM\_TITLE VARCHAR2(20))");

//Create Music\_mania table

stmt.executeUpdate("CREATE TABLE MUSIC\_MANIA(ID\_NO NUMBER(5),ARTIST\_NAME VARCHAR2(20),FOREIGN KEY(ID\_NO) REFERENCES USERS,FOREIGN KEY(ARTIST\_NAME) REFERENCES ARTIST);

//create table Your\_library

stmt.executeUpdate("CREATE TABLE YOUR\_LIBRARY(ID\_NO NUMBER(5),PLAYLIST\_NAME VARCHAR2(20) PRIMARY KEY,PLAYLISTS\_SONG VARCHAR2(20),ALBUM\_TITLE VARCHAR2(20))");

//create table User\_library

stmt.executeUpdate("CREATE TABLE USER\_LIBRARY(ID\_NO NUMBER(5),PLAYLIST\_NAME VARCHAR2(20),FOREIGN KEY(ID\_NO) REFERENCES USERS,FOREIGN KEY(PLAYLIST\_NAME) REFERENCES YOUR\_LIBRARY)");

//create table Album\_songs

stmt.executeUpdate("CREATE TABLE ALBUM\_SONGS(SONG VARCHAR2(20),ALBUM\_TITLE VARCHAR2(20),FOREIGN KEY(SONG) REFERENCES SONGS,FOREIGN KEY (ALBUM\_TITLE) REFERENCES ALBUMS)");

//create composed table

stmt.executeUpdate("CREATE TABLE COMPOSED(ARTISTS\_NAME VARCHAR2(20),ALBUM\_TITLE VARCHAR2(20),FOREIGN KEY(ARTISTS\_NAME) REFERENCES ARTIST,FOREIGN KEY(ALBUM\_TITLE) REFERENCES ALBUMS)");

resultSet.close();

}

catch (Exception ex) {

ex.printStackTrace();

}

}

public static void user\_menu() {

JFrame f=new JFrame("User Functions"); //Give dialog box name as User functions

//f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); //Exit user menu on closing the dialog box

JButton Song=new JButton("Songs");//creating instance of JButton

Song.setBounds(20,20,120,25);//x axis, y axis, width, height

Song.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame f = new JFrame("Songs"); //View songs in database

Connection connection = connect();

String sql="select \* from Songs"; //Retreive data from database

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt=connection.createStatement();

ResultSet rs=stmt.executeQuery(sql);

JTable song\_list= new JTable(); //show data in table format

song\_list.setModel(DbUtils.resultSetToTableModel(rs));

JScrollPane scrollPane = new JScrollPane(song\_list); //enable scroll bar

f.add(scrollPane); //add scroll bar

f.setSize(800, 400); //set dimensions of view songs frame

f.setVisible(true);

f.setLocationRelativeTo(null);

} catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

}

);

JButton Album=new JButton("Albums");//creating instance of JButton

Album.setBounds(150,20,120,25);//x axis, y axis, width, height

Album.addActionListener(new ActionListener() { //Perform action

public void actionPerformed(ActionEvent e){

JFrame f = new JFrame("Album"); //View albums

//f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

Connection connection = connect(); //connect to database

String sql="select \* from Albums"; //Retreive data from database

try {

Statement stmt = connection.createStatement(); //connect to database

stmt.executeUpdate("USE Music\_Mania"); // use Music\_Mania

stmt=connection.createStatement();

ResultSet rs=stmt.executeQuery(sql);

JTable album\_list= new JTable(); //show data in table format

album\_list.setModel(DbUtils.resultSetToTableModel(rs));

JScrollPane scrollPane = new JScrollPane(album\_list); //enable scroll bar

f.add(scrollPane); //add scroll bar

f.setSize(800, 400); //set dimensions of view album frame

f.setVisible(true);

f.setLocationRelativeTo(null);

} catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

}

);

JButton add\_playlist=new JButton("Add playlist"); //creating instance of JButton to add playlist

add\_playlist.setBounds(20,60,120,25); //set dimensions for button

add\_playlist.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame g = new JFrame("Enter playlist "); //Frame to enter playlist details

//g.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

//Create label

JLabel l1,l2,l3,l4;

l1=new JLabel("id"); // label 1 for id no

l1.setBounds(30,15,100,30);

l2=new JLabel("playlist name"); //label 2 for playlistname

l2.setBounds(30,50,100,30);

l3=new JLabel("song name"); //label 3 for song name

l3.setBounds(30,85, 100,30);

l4=new JLabel("album title"); // label 4 for album

l4.setBounds(30,130,100,30);

// set text field for id

JTextField F\_id = new JTextField();

F\_id.setBounds(110,15,200,30);

//set text field for playlist name

JTextField F\_playlist = new JTextField();

F\_playlist.setBounds(110, 50, 200, 30);

//set text field for song name

JTextField F\_song = new JTextField();

F\_song.setBounds(110, 85, 200, 30);

// set text field for album name

JTextField F\_album = new JTextField();

F\_album.setBounds(110,130,200,30);

JButton create\_but=new JButton("Create");//creating instance of JButton for Create

create\_but.setBounds(130,130,80,25);//x axis, y axis, width, height

create\_but.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

String id = F\_id.getText();

int id\_int = Integer.parseInt(id);

String playlist = F\_playlist.getText();

String song = F\_song.getText();

String album = F\_album.getText();

Connection connection = connect();

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE MUSIC\_MANIA");

stmt.executeUpdate("INSERT INTO YOUR\_LIBRARY(ID\_NO, PLAYLIST\_NAME, PLAYLISTS\_SONG, ALBUM\_TITLE) VALUES ('"+id\_int+"','"+playlist+"','"+song+"',"+album")");

JOptionPane.showMessageDialog(null,"playlist added!");

g.dispose();

}

catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

});

g.add(create\_but);

g.add(a2);

g.add(a1);

g.add(l1);

g.add(l2);

g.add(l3);

g.add(l4);

g.add(F\_id);

g.add(F\_playlist);

g.add(F\_song);

g.add(f\_album);

g.setSize(350,200);//400 width and 500 height

g.setLayout(null);//using no layout managers

g.setVisible(true);//making the frame visible

g.setLocationRelativeTo(null);

}

});

}

public static void admin\_menu() {

JFrame f=new JFrame("Admin Functions"); //Give dialog box name as admin functions

//f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); //

JButton create\_but=new JButton("Create/Reset");//creating instance of JButton to create or reset database

create\_but.setBounds(450,60,120,25);//x axis, y axis, width, height

create\_but.addActionListener(new ActionListener() { //Perform action

public void actionPerformed(ActionEvent e){

create(); //Call create function

JOptionPane.showMessageDialog(null,"Database Created/Reset!"); //Open a dialog box and display the message

}

});

JButton Song=new JButton("Songs");//creating instance of JButton to view songs

Song.setBounds(20,20,120,25);//x axis, y axis, width, height

Song.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame f = new JFrame("Songs");

//f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

Connection connection = connect(); //connect to database

String sql="select \* from Songs"; //select all songs

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt=connection.createStatement();

ResultSet rs=stmt.executeQuery(sql);

JTable song\_list= new JTable(); //view data in table format

song\_list.setModel(DbUtils.resultSetToTableModel(rs));

//mention scroll bar

JScrollPane scrollPane = new JScrollPane(song\_list);

f.add(scrollPane); //add scrollpane

f.setSize(800, 400); //set size for frame

f.setVisible(true);

f.setLocationRelativeTo(null);

} catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

}

);

JButton users\_but=new JButton("View Users");//creating instance of JButton to view users

users\_but.setBounds(150,20,120,25);//x axis, y axis, width, height

users\_but.addActionListener(new ActionListener() { //Perform action on click button

public void actionPerformed(ActionEvent e){

JFrame f = new JFrame("Users List");

//f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

Connection connection = connect();

String sql="select \* from Users"; //retrieve all users

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt=connection.createStatement();

ResultSet rs=stmt.executeQuery(sql);

JTable users\_list= new JTable();

book\_list.setModel(DbUtils.resultSetToTableModel(rs));

//mention scroll bar

JScrollPane scrollPane = new JScrollPane(book\_list);

f.add(scrollPane); //add scrollpane

f.setSize(800, 400); //set size for frame

f.setVisible(true);

f.setLocationRelativeTo(null);

} catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

}

);

JButton Album=new JButton("View Albums");//creating instance of JButton to view the albums

Album.setBounds(280,20,160,25);//x axis, y axis, width, height

Album.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame f = new JFrame("Users List");

//f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

Connection connection = connect();

String sql="select \* from Albums";

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt=connection.createStatement();

ResultSet rs=stmt.executeQuery(sql);

JTable album\_list= new JTable();

album\_list.setModel(DbUtils.resultSetToTableModel(rs));

JScrollPane scrollPane = new JScrollPane(album\_list);

f.add(scrollPane);

f.setSize(800, 400);

f.setVisible(true);

f.setLocationRelativeTo(null);

} catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

}

);

JButton add\_user=new JButton("Add User"); //creating instance of JButton to add users

add\_user.setBounds(20,60,120,25); //set dimensions for button

add\_user.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame g = new JFrame("Enter User Details"); //Frame to enter user details

//g.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

//Create label

JLabel l1,l2,l3;

l1=new JLabel("ID\_NO"); //label 1 for id

l1.setBounds(30,15, 100,30);

l2=new JLabel("Username"); //label 2 for username

l2.setBounds(30,50, 100,30);

l3=new JLabel("Premium type"); // label 3 for premium type

l3.setBounds(30,85,100,30);

//set text field for id no

JTextField F\_id = new JTextField();

F\_id.setBounds(110, 15, 200, 30);

//set text field for username

JTextField F\_user=new JTextField();

F\_user.setBounds(110, 50, 200, 30);

// set text field for premium type

JTextField F\_premium= new JTextField();

F\_premium.setBounds(110,85,200,30);

JButton create\_but=new JButton("Create");//creating instance of JButton for Create

create\_but.setBounds(130,130,80,25);//x axis, y axis, width, height

create\_but.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

String id = F\_id.getText();

int id\_int = Integer.parseInt(id);

String user = F\_user.getText();

String premium = F\_premium.getText();

Connection connection = connect();

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE MUSIC\_MANIA");

stmt.executeUpdate("INSERT INTO USERS(ID\_NO, USER\_NAME ,PREMIUM\_TYPE) VALUES ('"+id\_int+"','"+user+"',"+premium+")");

JOptionPane.showMessageDialog(null,"User added!");

g.dispose();

}

catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

});

g.add(create\_but);

g.add(a2);

g.add(a1);

g.add(l1);

g.add(l2);

g.add(l3);

g.add(F\_id);

g.add(F\_user);

g.add(F\_premium);

g.setSize(350,200);//400 width and 500 height

g.setLayout(null);//using no layout managers

g.setVisible(true);//making the frame visible

g.setLocationRelativeTo(null);

}

});

JButton add\_song=new JButton("Add song"); //creating instance of JButton for adding songs

add\_song.setBounds(150,60,120,25);

add\_song.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

//set frame to enter song details

JFrame g = new JFrame("Enter song Details");

//g.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

// set labels

JLabel l1,l2;

l1=new JLabel("Song name"); //label 1 for song name

l1.setBounds(30,15, 100,30);

l2=new JLabel("Album title"); //label 2 for album

l2.setBounds(30,53, 100,30);

//set text field for song name

JTextField F\_sname = new JTextField();

F\_sname.setBounds(110, 15, 200, 30);

//set text field for album

JTextField F\_albumtitle=new JTextField();

F\_albumtitle.setBounds(110, 53, 200, 30);

JButton create\_but=new JButton("Submit");//creating instance of JButton to submit details

create\_but.setBounds(130,130,80,25);//x axis, y axis, width, height

create\_but.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

String sname = F\_sname.getText();

String albumtitle = F\_albumtitle.getText();

int listeners =1000

Connection connection = connect();

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt.executeUpdate("INSERT INTO Songs(SONG, LISTENERS, ALBUM\_TITLE) VALUES ('"+sname+"','"+listeners+"',"+album\_title+")");

JOptionPane.showMessageDialog(null,"song added!");

g.dispose();

}

catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

});

g.add(create\_but);

g.add(l1);

g.add(l2);

g.add(F\_sname);

g.add(F\_albumtitle);

g.setSize(350,200);//400 width and 500 height

g.setLayout(null);//using no layout managers

g.setVisible(true);//making the frame visible

g.setLocationRelativeTo(null);

}

});

JButton add\_album=new JButton("Add album"); //creating instance of JButton for adding albums

add\_album.setBounds(450,20,120,25);

add\_album.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame g = new JFrame("Enter album details");

//g.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

// set labels

JLabel l1,l2,l3;

l1=new JLabel("Album name"); //label 1 for album name

l1.setBounds(30,15, 100,30);

l2=new JLabel("no of tracks"); //label 2 for no of tracks

l2.setBounds(30,53, 100,30);

l3=new JLabel("Label");

l3.setBounds(30,85,100,30);

//set text field for album name

JTextField F\_album = new JTextField();

F\_album.setBounds(110, 15, 200, 30);

//set text field for no of tracks

JTextField F\_tracks=new JTextField();

F\_tracks.setBounds(110, 53, 200, 30);

//set text field for label

JTextField F\_label = new JTextField();

F\_label.setBounds(110,85,200,30);

JButton create\_but=new JButton("Submit");//creating instance of JButton to submit details

create\_but.setBounds(130,130,80,25);//x axis, y axis, width, height

create\_but.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

String albname = F\_album.getText();

String tracks = F\_tracks.getText();

int tracks\_int = Integer.parseInt(tracks);

String label = F\_label.getText();

int streamings=1000;

Connection connection = connect();

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt.executeUpdate("INSERT INTO ALBUM(ALBUM\_TITLE, NO\_OF\_TRACKS, LABEL, STREAMINGS) VALUES ('"+albname+"','"+tracks\_int+"',"+label+"','"+streamings")");

JOptionPane.showMessageDialog(null,"album added!");

g.dispose();

}

catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

});

g.add(l3);

g.add(create\_but);

g.add(l1);

g.add(l2);

g.add(F\_albname);

g.add(F\_tracks);

g.add(F\_label);

g.setSize(350,200);//400 width and 500 height

g.setLayout(null);//using no layout managers

g.setVisible(true);//making the frame visible

g.setLocationRelativeTo(null);

}

});

JButton add\_artist=new JButton("Add artist details"); //creating instance of JButton for adding artists

add\_artist.setBounds(450,20,120,25);

add\_artist.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

JFrame g = new JFrame("Enter artist Details");

//g.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

// set labels

JLabel l1,l2;

l1 = new JLabel("Artist name"); //label 1 for artist name

l1.setBounds(30,15, 100,30);

l2 = new JLabel("label"); //label 2 for label

l2.setBounds(30,53, 100,30);

//set text field for artist name

JTextField F\_artist = new JTextField();

F\_artist.setBounds(110, 15, 200, 30);

//set text field for label

JTextField F\_label = new JTextField();

F\_label.setBounds(110, 53, 200, 30);

JButton create\_but=new JButton("Submit");//creating instance of JButton to submit details

create\_but.setBounds(130,130,80,25);//x axis, y axis, width, height

create\_but.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e){

String artist = F\_artist.getText();

String label = F\_label.getText();

int no\_albums=1;

Connection connection = connect();

try {

Statement stmt = connection.createStatement();

stmt.executeUpdate("USE Music\_Mania");

stmt.executeUpdate("INSERT INTO ARTIST(ARTISTS\_NAME VARCHAR2(20) PRIMARY KEY, TOTAL\_ALBUM NUMBER(5), LABEL VARCHAR2(20)) VALUES ('"+artist+"','"+label+"',"+no\_albums")");

JOptionPane.showMessageDialog(null,"artist added!");

g.dispose();

}

catch (SQLException e1) {

// TODO Auto-generated catch block

JOptionPane.showMessageDialog(null, e1);

}

}

});

g.add(create\_but);

g.add(l1);

g.add(l2);

g.add(F\_artist);

g.add(F\_label);

g.setSize(350,200);//400 width and 500 height

g.setLayout(null);//using no layout managers

g.setVisible(true);//making the frame visible

g.setLocationRelativeTo(null);

}

});

}

}

*Github link:*

*https://github.com/NIKHITA-84/Music\_Mania*