## Relational Databases with MySQL Week 6 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

**Instructions:** In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your Java project code, to the repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

## **Coding Steps:**

This week you will be working together as a **team** to create a full CRUD application.

Your console CRUD application will need to use a database to store all the application data.

As a team, decide what you want your project to do. Get instructor approval early in the week before beginning development.

You need to have at least 3 entities.

Users should be able to interact via the console (i.e. Scanner(System.in)))

Use git to collaborate.

Everyone will be graded on their individual contributions.

#### **Screenshots of Code:**

```
package application;
public class Application {
            public static void main(String[] args) {
                          * Declare the menu method and Call it!
                         Menu menu = new Menu();
                         menu.start();
            }
}
package application;
import java.sql.SQLException;
import java.util.Arrays;
import java.util.List;
import java.util.Scanner;
import dao.AlbumDao;
import dao.ArtistDao;
import dao.CertificationDao;
import entity.Album;
import entity.Artist;
import entity.Certification;
public class Menu {
                private AlbumDao albumDao = new AlbumDao();
                private ArtistDao artistDao = new ArtistDao();
                private CertificationDao certificationDao = new CertificationDao();
private final String DATABASE_NAME = "recording_artists";
private Scanner scanner = new Scanner(System.in);
                 private List<String> options = Arrays.asList("Album Menu",
                                                                                                                "Artist Menu",
"Certification Menu");
                private List<String> album_options = Arrays.asList("Display All Albums",
                                                                                                                           "Add A New Album",
                                                                                                                       "Delete An Album",
                                                                                                                       "Update An Album");
                private List<String> artist_options = Arrays.asList("Display All Artists",
                                                                                                                        "Add A New Artist",
                                                                                                                        "Delete An Artist"
                                                                                                                        "Update An Artist");
                 private List<String> cert_options = Arrays.asList("Display All Certifications",
                                                                                                                      "Add A New Certification",
                                                                                                                      "Delete A Certification"
                                                                                                                      "Update A Certification");
                public void start() {
```

```
String selection = "";
String subselection = "";
do {
          System.out.println("-----");
System.out.println("MAIN " + DATABASE_NAME + " MENU");
System.out.println("-----");
          printMenu(options);
           scanner = new Scanner(System.in);
           selection = scanner.nextLine();
                     if (selection.equals("1") ) {
    System.out.println("-----");
    System.out.println("ALBUM Information Menu");
    System.out.println("-----");
}
                                do {
                                           printMenu(album_options);
                                           scanner = new Scanner(System.in);
subselection = scanner.nextLine();
                                          if (subselection.equals("1") ) {
        System.out.println("\tDisplaying all albums...\n");
        displayAllAlbums();
} else if (subselection.equals("2") ) {
                                          System.out.println("\tAdding an album...\n");
addNewAlbum();
} else if (subselection.equals("3") ) {
                                                      System.out.println("\tDeleting an album...\n");
                                           deleteAlbum();
} else if (subselection.equals("4") ) {
                                                      System.out.println("\tUpdating an album...\n");
                                           } while (!(subselection.equals("-1")));
                     do {
                                           printMenu(artist_options);
                                           scanner = new Scanner(System.in);
subselection = scanner.nextLine();
                                     addNewArtist();
                                           } else if (subselection.equals("3") ) {
    System.out.println("\tDeleting an artist...\n");
    deleteArtist();
                                           } else if (subselection.equals("4") ) {
        System.out.println("\tlndating an artist...\n"):
```

```
} else if (subselection.equals("4") ) {
        System.out.println("\tUpdating an artist...\n");
                                                      }
} while (!(subselection.equals("-1")));
                                   do {
                                                     printMenu(cert_options);
scanner = new Scanner(System.in);
subselection = scanner.nextLine();
                                                      if (subselection.equals("1") ) {
    System.out.println("\tDisplaying all certifications...\n");
                                                      displayAllCerts();
} else if (subselection.equals("2") ) {
    System.out.println("\tAdding a certification...\n");
    addNewCert();
} else if (subselection.equals("3") ) {
    System.out.println("\tDeleting a certification...\n");
    delete(ert());
}
                                                      deleteCert();
} else if (subselection.equals("4") ) {
   System.out.println("\tUpdating a certification...\n");
                                                      } while (!(subselection.equals("-1")));
                                   }
                          } while (!(selection.equals("-1")));  System.out.println("\n\endof program...\n\n\endof the " + DATABASE_NAME + " database!"); 
         }
/*
 * Method: displayAllAlbums()
private void displayAllAlbums() throws SQLException {
        /*

* No need for input... print all album data
         /
List<Album> albums = albumDao.getAlbums():
```

```
}
}
/*
* Method: addNewAlbum()
private void addNewAlbum() throws SQLException {
          /*

* prompt user for all new album data

*/
          */
System.out.print("Enter Album Name: ");
String albumName = scanner.nextLine();
System.out.print("Enter Artist: ");
String artistName = scanner.nextLine(); // Use this to find the Artist_ID by calling
// artistDao.getArtistByName(artistName).getArtist_id();
           Artist artist = artistDao.getArtistByName(artistName);
          if (artist == null) {
    artistDao.createNewArtist(artistName);
    artist = artistDao.getArtistByName(artistName);
           System.out.print("Enter Label: ");
          String labelName = scanner.nextline();
System.out.print("Enter Genre: ");
String genre = scanner.nextLine();
           albumDao.createAlbum(artist.getArtistId(), albumName, labelName, genre);
}
/*
* Method: deleteAlbum()
private void deleteAlbum() throws SQLException {
          */
System.out.print("Enter Name of Album to Delete: ");
String albumName = scanner.nextLine();
Album album = albumDao.getAlbumByName(albumName);
          Album album = albumbado.getAlbumbyrame(albummene);

if (album == null) {
    System.out.println("Album doesn't exist!");
    } else {
        System.out.println("Deleting Album...");
        albumDao.deleteAlbumByName(albumName);

}
/*
* Method: updateAlbum()
private void updateAlbum() throws SQLException {
            * prompt user for album name, and possible input changes:
```

```
String albumName = scanner.nextLine();
Album album = albumDao.getAlbumByName(albumName);
       if (album == null) {
               System.out.println("Album doesn't exist!");
       } else {
               int albumId = album.getAlbumId();
               System.out.print("Enter Change to Album Name: ");
               String newName = scanner.nextLine();
               if (newName.equals("")) {
                      newName = albumName;
               System.out.print("Enter Name of Label to Update: ");
               String label = scanner.nextLine();
               System.out.print("Enter Genre to Update: ");
               String genre = scanner.nextLine();
               System.out.println("Updating Album...");
               albumDao.updateAlbum(albumId, album.getArtistId(),newName,label,genre);
       }
}
/*
   * Method: displayAllArtists()
private void displayAllArtists() throws SQLException {
       /*

* No need for input... print all artist data
       List<Artist> artists = artistDao.getArtists();
       }
/*

* Method: addNewArtist()
private void addNewArtist() throws SQLException {
        * prompt user for all new artist data
       System.out.print("Enter New Artist: ");
       String artist_name = scanner.nextLine();
       artistDao.createNewArtist(artist_name);
}
* Method: deleteArtist()
private void deleteArtist() throws SQLException {
        ^{st} prompt user for artist name, and confirm that they want to delete?:
       System.out.print("Enter Name of Artist to Delete: ");
       String artistName = scanner.nextLine();
```

```
} else {
                     System.out.println("Id: " + artist.getArtistId() + " \tName: " + artist.getArtistName());
                    System.out.println("\t"* This will also delete all of the associated data in the " + DATABASE_NAME + " database! **\n");
System.out.print("Would you like to proceed, yes or no? ");
String response = scanner.nextLine();
if (response.equalsIgnoreCase("yes")) {
    artistDao.deleteArtist(artistName);
} else {
        System.out.println("Delete Artist not performed!");
}
          }
}
/*
* Method: updateArtist()
private void updateArtist() throws SQLException {
            ^{\prime} * prompt user for artist name to change, and new artist name */
           System.out.print("Enter Name of Artist to Update: ");
          } else {
                     System.out.println("Id: " + artist.getArtistId() + " \ \ \ " + artist.getArtistName());
                    }
}
/*
    * Method: displayAllCerts()
          private void displayAllCerts() throws SQLException {
   ListCertification > certification = certificationDao.displayAllCerts();
        for (Certification certs : certification) {
        System.out.println(certs.getCertId() + " " + certs.getAlbumId() + " " + certs.getCertStatus() + " " + certs.getCertDate());
   }
}
/*
* Method: addNewCert()
private void addNewCert() throws SQLException {
```

```
private void addiewCert() throws SQLException {
    System.out.print("Enter Name of Album for New Certification: ");
    String albumbame "scanner-mextime();
    Album == null; albumbame "scanner-mextime();
    System.out.println("Album but Found in database: " + DATABASE_NAME);
    System.out.println("Album but Found in database: " + DATABASE_NAME);
    System.out.println("State Num Certification not performed!");
    String certStatus = scanner.nextLine();
    System.out.println("there Certification Date...");
    String certStatus = scanner.nextLine();
    certificationDas.addNext(album_geAlbumd(), certStatus, certDate);

}

**Method: deleteCert() throws SQLException {
    System.out.println("there Certification Date...");
    certificationDas.deleteCert(certid).

**Method: updateCert() throws SQLException {
    System.out.println("there Certification Date...");
    int certid = Integer.parseInt(canner.nextLine());
    System.out.println("there Certification Date...");
    System.out.println("there Certification Status...");
    System.out.println("there Certification Status...");
    System.out.println("there Certification Status...");
    System.out.println("there New Certification Status...");
    System.out.println("there New
```

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```
package dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import entity.Album;
public class AlbumDao {
          private Connection connection;
          private final String GET_ALBUM_BY_ALBUM_NAME_QUERY = "SELECT * FROM album WHERE album_name = ? ";

private final String GET_ALL_ALBUMS_QUERY = "SELECT * FROM album";

private final String CREATE_NEW_ALBUM_QUERY = "INSERT INTO album (artist_id, album_name, label, genre) VALUES(?, ?, ?, ?)";

private final String DELETE_ALBUM_NAME_QUERY = "DELETE FROM album WHERE album_name = ?";

private final String UPDATE_ALBUM_QUERY = "UPDATE album SET artist_id = ?, label = ?, genre = ?, album_name = ? WHERE album_id = ?";
          public AlbumDao() {
      connection = DBConnection.getConnection();
                     //albumDao = new AlbumDao();
          }
          public List<Album> getAlbums() throws SQLException {
                     ResultSet rs = connection.prepareStatement(GET_ALL_ALBUMS_QUERY).executeQuery();
List<Album> albums = new ArrayList<Album>();
                     while (rs.next()) {
                                albums.add(new Album(rs.getInt(1), rs.getInt(2), rs.getString(3), rs.getString(4), rs.getString(5)));
                     return albums;
          }
          public Album getAlbumByName(String albumName) throws SQLException {
                    PreparedStatement ps = connection.prepareStatement(GET_ALBUM_BY_ALBUM_NAME_QUERY);
ps.setString(1, albumName);
ResultSet rs = ps.executeQuery();
Album album = null;
                    if (rs.next()) {
    album = new Album(rs.getInt(1), rs.getInt(2), rs.getString(3), rs.getString(4), rs.getString(5));
                     return album;
          }
          public void createAlbum (int artistId, String albumName, String label, String genre) throws SQLException {
                     PreparedStatement ps = connection.prepareStatement(CREATE_NEW_ALBUM_QUERY);
                     ps.setInt(1, artistId);
                     ps.setString(2, albumName);
ps.setString(3, label);
                     ps.setString(4, genre);
                ps.executeUpdate();
          public void createAlbumByName(int artistId, String albumName, String label, String genre) throws SQLException {
                     PreparedStatement ps = connection.prepareStatement(CREATE_NEW_ALBUM_QUERY);
                     ps.setInt(1, artistId);
ns setString(2 albumName)
           public void createAlbumByName(int artistId, String albumName, String label, String genre) throws SQLException {
                      PreparedStatement ps = connection.prepareStatement(CREATE_NEW_ALBUM_QUERY);
                      ps.setInt(1, artistId);
                      ps.setString(2, albumName);
                      ps.setString(3, label);
                      ps.setString(4, genre);
                ps.executeUpdate();
           public void deleteAlbumByName(String albumName) throws SQLException {
    PreparedStatement ps = connection.prepareStatement(DELETE_ALBUM_NAME_QUERY);
                      ps.setString(1, albumName);
                      ps.executeUpdate();
           public void updateAlbum(int albumId, int artistId, String albumName, String label, String genre) throws SQLException {
                      PreparedStatement ps = connection.prepareStatement(UPDATE_ALBUM_QUERY);
                      ps.setInt(1, artistId);
                      ps.setString(2, label);
                     ps.setString(3, genre);
ps.setString(4, albumName);
ps.setInt(5, albumId );
                      ps.executeUpdate();
           }
}
```

```
package dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import entity.Artist;
public class ArtistDao {
       private Connection connection;
       private final String GET_ARTISTS_QUERY = "SELECT * FROM artist";
       private final String GET_ARTIST_BY_NAME_QUERY = "SELECT * FROM artist WHERE artist_name = ?";
       private final String GET_ARTIST_BY_ID_QUERY = "SELECT * FROM artist WHERE artist_id = ?";
       private final String CREATE_NEW_ARTIST_UPDATE = "INSERT INTO artist (artist_name) VALUES (?)";
       private final String DELETE_ARTIST_UPDATE = "DELETE FROM artist WHERE artist_name = ?";
       private final String UPDATE ARTIST UPDATE = "UPDATE artist SET artist name = ? WHERE artist id = ?";
       public ArtistDao() {
                connection = DBConnection.getConnection();
       public List<Artist> getArtists() throws SQLException {
                PreparedStatement ps = connection.prepareStatement (GET ARTISTS QUERY);
                ResultSet rs = ps.executeQuery();
                List<Artist> artists = new ArrayList<Artist>();
                while (rs.next()) {
                        artists.add(populateArtist(rs.getInt(1),rs.getString(2)));
                return artists;
       }
       public Artist getArtistByName(String artistName) throws SQLException {
               PreparedStatement ps = connection.prepareStatement (GET ARTIST BY NAME QUERY);
                ps.setString(1,artistName);
                ResultSet rs = ps.executeQuery();
                if (rs.next()) {
                        return populateArtist(rs.getInt(1),rs.getString(2));
                } else {
                        return null;
                }
       }
       public Artist getArtistById(int artistId) throws SQLException {
               PreparedStatement ps = connection.prepareStatement (GET_ARTIST_BY_ID_QUERY);
                ps.setInt(1,artistId);
                ResultSet rs = ps.executeQuery();
                if (rs.next()) {
                       return populateArtist(rs.getInt(1),rs.getString(2));
                } else {
                        return null;
```

```
public Artist getArtistById(int artistId) throws SQLException {
                PreparedStatement ps = connection.prepareStatement (GET_ARTIST_BY_ID_QUERY);
                ps.setInt(1,artistId);
                ResultSet rs = ps.executeQuery();
                if (rs.next()) {
                        return populateArtist(rs.getInt(1),rs.getString(2));
                } else {
                        return null;
        }
        public void createNewArtist(String artistName) throws SQLException {
                PreparedStatement ps = connection.prepareStatement (CREATE_NEW_ARTIST_UPDATE);
                ps.setString(1, artistName);
                ps.executeUpdate();
        }
        public void deleteArtist(String artistName) throws SQLException {
                PreparedStatement ps = connection.prepareStatement (DELETE_ARTIST_UPDATE);
                ps.setString(1, artistName);
                ps.executeUpdate();
        public void updateArtist(String artistName, String newName) throws SQLException {
                Artist artist = getArtistByName(artistName);
                PreparedStatement ps = connection.prepareStatement (UPDATE_ARTIST_UPDATE);
                ps.setString(1, newName);
                ps.setInt(2, artist.getArtistId());
                ps.executeUpdate();
        }
        private Artist populateArtist(int artistId, String artistName) {
                return new Artist(artistId,artistName);
        }
}
```

```
package dao;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import entity.Certification;
public class CertificationDao {
        private Connection connection;
        private final String GET_CERTS_QUERY = "SELECT * FROM certification";
        private final String CREATE_NEW_CERT_QUERY = "INSERT INTO certification(album_id, cert_status, cert_date) VALUES (?,?,?)";
private final String UPDATE_CERT_QUERY = "UPDATE certification SET cert_status = ?, cert_date = ? WHERE cert_id = ?";
private final String DELETE_CERT_QUERY = "DELETE FROM certification WHERE cert_id = ?";
        public CertificationDao() {
     connection = DBConnection.getConnection();
        public List<Certification> displayAllCerts() throws SQLException {
                  ResultSet rs = connection.prepareStatement(GET_CERTS_QUERY).executeQuery();
                 List<Certification> certifications = new ArrayList<Certification>();
                          while (rs.next()) {
                                   certifications.add(populateCertifications(rs.getInt(1), rs.getInt(2), rs.getString(3), rs.getString(4)));
                          return certifications;
                 }
        public
         void addNewCert (int albumId, String certStatus, String certDate) throws SQLException {
                 PreparedStatement ps = connection.prepareStatement(CREATE_NEW_CERT_QUERY);
                 ps.setInt(1,albumId);
                 ps.setString(2, certStatus);
                 ps.setString(3, certDate);
ps.executeUpdate();
        }
          public
          void addNewCert (int albumId, String certStatus, String certDate) throws SQLException {
                   PreparedStatement ps = connection.prepareStatement(CREATE_NEW_CERT_QUERY);
                    ps.setInt(1,albumId);
                    ps.setString(2, certStatus);
                   ps.setString(3, certDate);
                    ps.executeUpdate();
          }
          public void updateCert (int certId, String certStatus, String certDate) throws SQLException {
                   PreparedStatement ps = connection.prepareStatement(UPDATE_CERT_QUERY);
                    ps.setString(1, certStatus);
                    ps.setString(2, certDate);
                   ps.setInt(3, certId);
                    ps.executeUpdate();
          public void deleteCert (int certId) throws SQLException {
                    PreparedStatement ps = connection.prepareStatement(DELETE_CERT_QUERY);
                    ps.setInt(1, certId);
                    ps.executeUpdate();
         private Certification populateCertifications(int certId , int albumId, String certStatus, String certDate) {
                    return new Certification (certId, albumId, certStatus, certDate);
}
```

```
/*
 * Promineo Tech BESD Bootcamp
 * MySQL Week 6 Coding Assignment
 * Group Project: John, Kendall, & Lisa
  * DBConnection Class using JavaSE-1.8
 package dao;
 import java.sql.Connection;
import java.sql.DriverManager;
 import java.sql.SQLException;
 import java.util.Scanner;
 public class DBConnection {
            private static Connection connection;
            private static Connection Connection;
private final static String URL = "jdbc:mysql://localhost:3306/recording_artists";
private final static String USER = "root";
private static String password = "";
private static Scanner scanner = new Scanner(System.in);
            private static DBConnection instance;
           /*
* Constructor
            private DBConnection (Connection connection) {
                       this.connection = connection;
            }
            public static Connection getConnection() {
                       boolean success = false;
                       do {
                                  if (instance == null) \{
                                             try {
                                                        System.out.println("UserName: " + USER);
System.out.print("Enter your password: ");
                                                        password = scanner.nextLine();
                                                        connection = DriverManager.getConnection(URL,USER,password);
                                                        instance = new DBConnection(connection);
System.out.println("\n\n\n\n");
                                                        success = true;
                                             } catch (SQLException e) {
                                                        System.out.println("\n\nERROR: Please try again!\n\n");
                            } else {
                                 success = true;
                       } while (success == false);
                       return DBConnection.connection;
```

```
package entity;
public class Album {
        private int albumId;
       private int artistId;
       private String albumName;
        private String label;
        private String genre;
        //Constructor
        public Album(int albumId, int artistId, String albumName, String label, String genre) {
                this.setAlbumId(albumId);
                this.setArtistId(artistId);
                this.setAlbumName(albumName);
                this.setLabel(label);
                this.setGenre(genre);
        }
        //Getters and Setters
        public int getAlbumId() {
                return albumId;
        public void setAlbumId(int albumId) {
               this.albumId = albumId;
        public int getArtistId() {
                return artistId;
        public void setArtistId(int artistId) {
                this.artistId = artistId;
        public String getAlbumName() {
               return albumName;
        public void setAlbumName(String albumName) {
                this.albumName = albumName;
        }
        public String getLabel() {
                return label;
        }
        public void setLabel(String label) {
                this.label = label;
        public String getGenre() {
                return genre;
        public void setGenre(String genre) {
               this.genre = genre;
}
```

```
package entity;
public class Artist {
        private int artistId;
        private String artistName;
         * Constructor
        public Artist (int artistId, String artistName) {
                this.artistId = artistId;
                this.artistName = artistName;
        }
         * Getters & Setters
        public int getArtistId() {
                return artistId;
        }
        public void setArtistId(int artistId) {
                this.artistId = artistId;
        public String getArtistName() {
                return artistName;
        }
        public void setArtistName(String artistName) {
                this.artistName = artistName;
        }
```

```
package entity;
public class Certification {
        private int certId;
        private int albumId;
        private String certStatus;
        private String certDate;
        public Certification (int certId, int albumId, String certStatus, String certDate) {
               this.setAlbumId(albumId);
                this.setCertId(certId);
                this.setCertStatus(certStatus);
                this.setCertDate(certDate);
        }
        public int getCertId() {
               return certId;
        }
        public void setCertId(int certId) {
                this.certId = certId;
        }
        public int getAlbumId() {
                return albumId;
        public void setAlbumId(int albumId) {
                this.albumId = albumId;
        }
        public String getCertStatus() {
               return certStatus;
        }
        public void setCertStatus(String certStatus) {
                this.certStatus = certStatus;
        }
        public String getCertDate() {
               return certDate;
        }
        public void setCertDate(String certDate) {
               this.certDate = certDate;
   }
}
```

### **Screenshots of Running Application:**

		- <b>-</b> -		
	Please SELECT AN All requests are		 recording_artists	databa
2) 3)	Album Menu Artist Menu Certification Menu Exit Menu			
1				
ALBUM	Information Menu			
	Please SELECT AN All requests are			databa
2) 3) 4)	Display All Albums Add A New Album Delete An Album Update An Album Exit Menu			

```
Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Albums
   2) Add A New Album
   3) Delete An Album
   4) Update An Album
  -1) Exit Menu
        Displaying all albums...
Name: The Freewheelin' Bob Dylan
        Id: 4 Artist: Bob Dylan
        Label: Columbia Genre: Folk
Name: Highway 61 Revisited
        Id: 5 Artist: Bob Dylan
        Label: Columbia Genre: Folk
Name: Slow Train Coming
        Id: 6 Artist: Bob Dylan
        Label: Columbia Genre: Rock
Name: Infidels
        Id: 7 Artist: Bob Dylan
        Label: Columbia Genre: Rock
Name: Desperado
        Id: 8 Artist: Eagles
        Label: Asylum Genre: Soft Rock
Name: One of These Nights
       Id: 9 Artist: Eagles
Label: Asylum Genre: Soft Rock
Name: Hotel California
        Id: 10 Artist: Eagles
        Label: Asylum Genre: Soft Rock
Name: We the Best
        Id: 11 Artist: DJ Khaled
        Label: Terror Squad E1 Genre: Hip Hop
Name: We Global
        Id: 12 Artist: DJ Khaled
        Label: Terror Squad E1 Genre: Hip Hop
Name: I Changed a Lot
        Id: 13 Artist: DJ Khaled
        Label: RED
                      Genre: Hip Hop
Name: Major Key
Id: 14 Artist: DJ Khaled
        Label: Epic
                       Genre: Hip Hop
Name: Father of Asahd
        Id: 15 Artist: DJ Khaled
        Label: Roc Nation
                               Genre: Hip Hop
Name: Welcome to the Pleasuredome
        Id: 16 Artist: Frankie Goes to Hollywood
```

Genre: New Wave

Label: ZTT

Name: Liverpool

Id: 17 Artist: Frankie Goes to Hollywood

Label: ZTT Genre: New Wave

Name: Thriller

Id: 18 Artist: Michael Jackson
Label: Epic Records Genre: Pop

Name: Bad

Id: 19 Artist: Michael Jackson

Label: Genre:

Name: Dangerous

Id: 20 Artist: Michael Jackson
Label: Epic Genre: PopGenre

Name: Invincible

Id: 22 Artist: Michael Jackson, the Great

Label: Epic Genre: Pop

Name: Chase the Clouds Away

Id: 24 Artist: Chuck Mangione Label: A&M Genre: Jazz

Name: Baby One More Time

Id: 33 Artist: Britney Spears
Label: Interscope Genre: Pop

-----

# Please SELECT AN OPTION...

All requests are on the recording\_artists database!

- 1) Display All Albums
- 2) Add A New Album
- 3) Delete An Album
- 4) Update An Album
- -1) Exit Menu

\_\_\_\_\_

2

Adding an album...

Enter Album Name: Oops, I Did It Again

Enter Artist: Britney Spears

Enter Label: Interscope

Enter Genre: Pop

Id: 20 Artist: Michael Jackson
Label: Epic Genre: PopGenre

Name: Invincible

Id: 22 Artist: Michael Jackson, the Great

Label: Epic Genre: Pop

Name: Chase the Clouds Away

Id: 24 Artist: Chuck Mangione Label: A&M Genre: Jazz

Name: Baby One More Time

Id: 33 Artist: Britney Spears
Label: Interscope Genre: Pop

Name: Oops, I Did It Again

Id: 34 Artist: Britney Spears
Label: Interscope Genre: Pop

-----

Please SELECT AN OPTION...

All requests are on the recording\_artists database!

- 1) Display All Albums
- 2) Add A New Album
- 3) Delete An Album
- 4) Update An Album
- -1) Exit Menu

4

Updating an album...

Enter Name of Album to Update: Dangerous

Enter Change to Album Name:

Enter Name of Label to Update: Epic

Enter Genre to Update: Pop

Updating Album...

Id: 18 Artist: Michael Jackson
Label: Epic Records Genre: Pop

Name: Bad

Id: 19 Artist: Michael Jackson

Label: Genre:

Name: Dangerous

Id: 20 Artist: Michael Jackson

Label: Epic Genre: Pop

Name: Invincible

Id: 22 Artist: Michael Jackson, the Great

Label: Epic Genre: Pop

Name: Chase the Clouds Away

Id: 24 Artist: Chuck Mangione Label: A&M Genre: Jazz Please SELECT AN OPTION...
All requests are on the recording\_artists database!

1) Display All Albums
2) Add A New Album
3) Delete An Album
4) Update An Album
-1) Exit Menu

3

Deleting an album...

Enter Name of Album to Delete: Oops, I Did It Again
Deleting Album...

Id: 22 Artist: Michael Jackson, the Great
Label: Epic Genre: Pop

Name: Chase the Clouds Away
Id: 24 Artist: Chuck Mangione
Label: A&M Genre: Jazz

Name: Baby One More Time

Id: 33 Artist: Britney Spears
Label: Interscope Genre: Pop

\_\_\_\_\_\_

MAIN re	ecording_artists MENU
	Please SELECT AN OPTION All requests are on the recording_artists database!
2) A 3) C	Album Menu Artist Menu Certification Menu Exit Menu
2	
ARTIST	Information Menu
	Please SELECT AN OPTION All requests are on the recording_artists database!
2) A 3) D 4) U	Display All Artists Add A New Artist Delete An Artist Update An Artist Exit Menu

```
ARTIST Information Menu
        Please SELECT AN OPTION...
       All requests are on the recording_artists database!
  1) Display All Artists
  2) Add A New Artist
  Delete An Artist
  4) Update An Artist
 -1) Exit Menu
       Displaying all artists...
Id: 10002
               Name: Bob Dylan
Id: 10003
               Name: Eagles
Id: 10004
               Name: DJ Khaled
Id: 10005
               Name: Frankie Goes to Hollywood
Id: 10006
               Name: Michael Jackson
Id: 10007
               Name: Pink Floyd
Id: 10008
               Name: Chuck Mangione
Id: 10009
               Name: Pink Floyd Bnad
               Name: New Artist
Id: 10010
Id: 10011
               Name: The Wallflowers
Id: 10013
               Name: ABCDEFG
Id: 10014
               Name: as;ldfjk
Id: 10015
               Name: ZYX
Id: 10018
               Name: AC/DC
Id: 10019
               Name: Michael Jackson, the Great
Id: 10020
               Name: New Artist
Id: 10021
               Name: Britney Spears
Id: 10022
               Name: Beyonce
Id: 10023
               Name: Lady Gaga
```

 $URL\ to\ Git Hub\ Repository: \underline{https://github.com/kendallcodes/JavaSQLWeek6Final.git}$ 

```
Please SELECT AN OPTION...
         All requests are on the recording_artists database!
   1) Display All Artists
   2) Add A New Artist
   3) Delete An Artist
   4) Update An Artist
  -1) Exit Menu
         Adding an artist...
Enter New Artist: Chuck Mangione
         Please SELECT AN OPTION...
         All requests are on the recording artists database!
   1) Display All Artists
   2) Add A New Artist
   3) Delete An Artist
   4) Update An Artist
  -1) Exit Menu
1
         Displaying all artists...
Id: 10002
                  Name: Bob Dylan
Id: 10003
                  Name: Eagles
Id: 10004
                  Name: DJ Khaled
Id: 10005
                  Name: Frankie Goes to Hollywood
Id: 10005
Id: 10006
Id: 10007
Id: 10008
Id: 10009
Id: 10010
Id: 10011
Id: 10013
                  Name: Michael Jackson
                  Name: Pink Floyd
                  Name: Chuck Mangione
                  Name: Pink Floyd Bnad
                  Name: New Artist
                  Name: The Wallflowers
                  Name: ABCDEFG
                 Name: as;ldfjk
Id: 10014
Id: 10015
Id: 10018
Id: 10019
Id: 10020
Id: 10021
Id: 10015
                  Name: ZYX
                  Name: AC/DC
                  Name: Michael Jackson, the Great
                  Name: New Artist
Id: 10021
                  Name: Britney Spears
Id: 10021
Id: 10022
Id: 10023
                  Name: Beyonce
                 Name: Lady Gaga
                  Name: Chuck Mangione
Id: 10024
```

```
Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Artists
   2) Add A New Artist
   3) Delete An Artist
   4) Update An Artist
  -1) Exit Menu
3
        Deleting an artist...
Enter Name of Artist to Delete: Chuck Mangione
Deleting Artist...
Id: 10008
                Name: Chuck Mangione
        ** This will also delete all of the associated data in the recording_artists database! **
Would you like to proceed, yes or no? yes
        Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Artists
   2) Add A New Artist
   3) Delete An Artist
   4) Update An Artist
  -1) Exit Menu
        Displaying all artists...
Id: 10002
                Name: Bob Dylan
                Name: Eagles
Id: 10003
Id: 10004
                 Name: DJ Khaled
Id: 10005
Id: 10006
                Name: Frankie Goes to Hollywood
                Name: Michael Jackson
Id: 10007
                 Name: Pink Floyd
                Name: Pink Floyd Bnad
Id: 10009
Id: 10010
                Name: New Artist
Id: 10011
                Name: The Wallflowers
Id: 10013
Id: 10014
                Name: ABCDEFG
                Name: as;ldfjk
Id: 10015
                Name: ZYX
Id: 10018
Id: 10019
                Name: AC/DC
                Name: Michael Jackson, the Great
Id: 10020
                Name: New Artist
Id: 10021
                Name: Britney Spears
Id: 10022
Id: 10023
                 Name: Beyonce
                Name: Lady Gaga
```

```
Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Artists
   2) Add A New Artist
   3) Delete An Artist
   4) Update An Artist
 -1) Exit Menu
        Updating an artist...
Enter Name of Artist to Update: Michael Jackson, the Great
Updating Artist...
Id: 10019
               Name: Michael Jackson, the Great
Enter NEW Name of Artist to Update: Michael Jackson
        Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Artists
   2) Add A New Artist
   3) Delete An Artist
  4) Update An Artist
 -1) Exit Menu
        Displaying all artists...
Id: 10002
                Name: Bob Dylan
Id: 10003
                Name: Eagles
Id: 10004
                Name: DJ Khaled
Id: 10005
                Name: Frankie Goes to Hollywood
Id: 10006
                Name: Michael Jackson
Id: 10007
                Name: Pink Floyd
Id: 10009
                Name: Pink Floyd Bnad
Id: 10010
                Name: New Artist
Id: 10011
                Name: The Wallflowers
Id: 10013
                Name: ABCDEFG
                Name: as;ldfjk
Id: 10014
Id: 10015
                Name: ZYX
Id: 10018
                Name: AC/DC
Id: 10019
                Name: Michael Jackson
Id: 10020
                Name: New Artist
                Name: Britney Spears
Id: 10021
Id: 10022
               Name: Beyonce
Id: 10023
               Name: Lady Gaga
```

MAIN recording\_artists MENU

Please SELECT AN OPTION...
All requests are on the recording\_artists database!

1) Album Menu
2) Artist Menu
3) Certification Menu
-1) Exit Menu

Recording\_artists database!

Please SELECT AN OPTION...
All requests are on the recording\_artists database!

1) Display All Certifications
2) Add A New Certification
3) Delete A Certification
4) Update A Certification
-1) Exit Menu

```
Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Certifications
   2) Add A New Certification
   3) Delete A Certification
  4) Update A Certification
  -1) Exit Menu
       Displaying all certifications...
104 4 Platinum null
105 5 Platinum null
106 6 Platinum null
107 7 Gold null
108 8 Platinum null
109 9 Platinum null
110 10 Diamond null
111 14 Platinum null
112 15 Platinum null
113 16 Gold null
114 17 Gold null
115 18 Multi-Platinum 1984-10-30
116 19 Platinum 2018-08-23
117 20 Multi-Platinum 1992-01-21
119 22 Multi-Platinum 2002-01-25
```

```
Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Certifications
   2) Add A New Certification
   3) Delete A Certification
   4) Update A Certification
  -1) Exit Menu
        Adding a certification...
Enter Name of Album for New Certification: Baby One More Time
Enter New Certification...
Multi-Platinum
Enter Certification Date..
1999-02-17
        Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Certifications
   2) Add A New Certification
   3) Delete A Certification
  4) Update A Certification
 -1) Exit Menu
        Displaying all certifications...
104 4 Platinum null
105 5 Platinum null
106 6 Platinum null
107 7 Gold null
108 8 Platinum null
109 9 Platinum null
110 10 Diamond null
111 14 Platinum null
112 15 Platinum null
113 16 Gold null
114 17 Gold null
115 18 Multi-Platinum 1984-10-30
116 19 Platinum 2018-08-23
117 20 Multi-Platinum 1992-01-21
119 22 Multi-Platinum 2002-01-25
122 33 Multi-Platinum 1999-02-17
```

```
119 22 Multi-Platinum 2002-01-25
122 33 Platinum 1999-02-10
        Please SELECT AN OPTION...
        All requests are on the recording_artists database!
   1) Display All Certifications
   2) Add A New Certification
   3) Delete A Certification
  4) Update A Certification
 -1) Exit Menu
3
        Deleting a certification...
Enter Certification Id to delete....
        Please SELECT AN OPTION...
       All requests are on the recording_artists database!
   1) Display All Certifications
   2) Add A New Certification
   Delete A Certification
  4) Update A Certification
 -1) Exit Menu
1
        Displaying all certifications...
104 4 Platinum null
105 5 Platinum null
106 6 Platinum null
107 7 Gold null
108 8 Platinum null
109 9 Platinum null
110 10 Diamond null
111 14 Platinum null
112 15 Platinum null
113 16 Gold null
114 17 Gold null
115 18 Multi-Platinum 1984-10-30
116 19 Platinum 2018-08-23
117 20 Multi-Platinum 1992-01-21
119 22 Multi-Platinum 2002-01-25
```