**Usage Instructions**

**Getting Started:**

**1. Installation and Configuration:**

* Ensure Microsoft Access, Oracle 19c database, client-side ODBC driver and Oracle SQL Developer are installed on your machine.
* Create an Oracle connection using the provided Oracle database creation script (Assign02.sql).
* Connect to ORACLE using SQL Developer as the “Assign02” user.
* Open the Microsoft Access database file (Assignment02.accdb).
* Link Microsoft Access to the Oracle Server database.

**2. Using the Application:**

**Managing Vinyl Records:**

**Add New Records:**

* Navigate to the VinylRecords\_View form.
* Fill in the required fields: Title, Genre, Release Date, and Record Label.
* Save the new record.

**View/Edit Existing Records:**

* Use the VinylRecords\_View form to search for and edit existing records.
* Make necessary changes and save the updates.

**Viewing Album Label History:**

* Select an album and click on the " View Record Label History " button.
* A new form will pop up showing the historical data of the album’s labels along with timestamps.

**Managing Artists:**

**Add New Artists:**

* Navigate to the Artists\_View form.
* Fill in the required fields: First Name, Last Name, Nationality
* Save the new artist profile.

**View/Edit Existing Artists:**

* Use the Artists\_View form to search for and edit existing artist profiles.
* Make necessary changes and save the updates.

**Viewing Artist Name History:**

* Select an artist and click on the " View First Name History " button or " View Last Name History " button.
* A new form will pop up showing the historical data of the artist’s first names or last names along with timestamps.

**Managing Tracks:**

**Add New Tracks:**

* Navigate to the Tracks\_View form.
* Fill in the required fields: Title, Length, RecordID, and Recording Date.
* Save the new track.

**View/Edit Existing Tracks:**

* Use the Tracks\_View form to search for and edit existing tracks.
* Make necessary changes and save the updates.

**Viewing Track Title History:**

* Select a track and click on the "View Title History" button.
* A new form will pop up showing the historical data of the track’s titles along with timestamps.

**Managing Producer:**

**Add New Producer:**

* Navigate to the Producer form.
* Fill in the required fields: ArtistID, Type
* Save the new producer profile.

**View/Edit Existing Artists:**

* Use the Producer form to search for and edit existing Producer profiles.
* Make necessary changes and save the updates.

**Managing Musician:**

**Add New Musician:**

* Navigate to the Musician form.
* Fill in the required fields: ArtistID, Instrument
* Save the new musician profile.

**View/Edit Existing Musician:**

* Use the Musician form to search for and edit existing Musician profiles.
* Make necessary changes and save the updates.

**Managing Songwriter:**

**Add New Songwriter:**

* Navigate to the Songwriter form.
* Fill in the required fields: ArtistID, GenreSpecialization
* Save the new Songwriter profile.

**View/Edit Existing Songwriter:**

* Use the Songwriter form to search for and edit existing Songwriter profiles.
* Make necessary changes and save the updates.

**Managing Relationships:**

**Add New Relationships:**

* Navigate to the Relationships form.
* Select the appropriate RecordID and ArtistID and specify the role.
* Save the new relationship.

**View/Edit Existing Relationships:**

* Use the Relationships form to search for and edit existing relationships.
* Make necessary changes and save the updates.

**Managing Invoices:**

**Add New Invoices:**

* Navigate to the Invoices form.
* Fill in the required fields: Order Date and Customer Name.
* Save the new invoice.

**View/Edit Existing Invoices:**

* Use the Invoices form to search for and edit existing invoices.
* Make necessary changes and save the updates.

**Managing LineItems:**

**Add New LineItems:**

* Navigate to the LineItems form.
* Fill in the required fields: Invoice ID, Record ID, Quantity, Price.
* Save the new Line Items.

**View/Edit Existing Lin Items:**

* Use the LineItems form to search for and edit existing LineItems.
* Make necessary changes and save the updates.

**Additional Operations:**

* Use the button in one form to link another form for convenient updates/inserts/imports.

Like in Artists from, you can click “Open VinylRecords Form” to link to VinylRecords Form to update the relevant data.

**Using Reports:**

* Using reports to view relevant fields and information, especially hierarchies like Vinyl Records and Artists.