# iMedia ETL Plan

## Instructions:

1. Outline the ETL (Extract, Transform, Load) plan for the music database.  
2. Follow the structure provided to detail each phase of the ETL process.  
3. Save the document as 'iMedia\_ETL\_Plan\_Completed.docx.'

## Extract Phase:

Data Sources:

* Artists: CSV file
* Albums: CSV file
* Tracks: CSV file
* Genres: CSV file

## Transform Phase:

**Data Cleaning Steps**:

**Artists Table**:

Step 1: Handling missing values in artist data.

Step 2: Removing duplicate entries in artist data.

Step 3: Trimming whitespace from artist names.

**Albums Table**:

Step 1: Handling missing values in album data.

Step 2: Removing duplicate entries in album data.

Step 3: Trimming whitespace from album titles.

**Tracks Table**:

Step 1: Handling missing values in track data.

Step 2: Converting track durations from minutes to seconds.

**Genres Table**:

Step 1: Handling missing values in genre data.

## Load Phase:

1. Target Database: SQLite database

2. Loading Strategy:

Insert cleaned and transformed data into the target tables within the database:

1. Artists: Map ArtistID, Name, BirthDate, and GenreID to the Artists table.
2. Albums: Map AlbumID, Title, ReleaseDate, and ArtistID to the Albums table.
3. Tracks: Map TrackID, Title, Duration, and AlbumID to the Tracks table.
4. Genres: Map GenreID and Name to the Genres table.