# Normalization Steps for iMedia Database Schema

## Instructions:

1. For each identified issue, write down the specific steps needed to normalize the schema.  
2. Save the document as 'iMedia\_Database\_Normalization\_Steps.docx'

## Normalization Issues:

1. Redundancy in the Artists table: Genre information is stored directly in the Artists table, causing repeated genre names for each artist.

2. Redundancy in the Albums table: Genre information is stored directly in the Albums table, leading to repeated genre names for each album.

3. Transitive dependency in the Tracks table: ArtistGenre information is stored directly in the Tracks table, which should be derived from the related Artist or Genre tables.

## Normalization Steps:

1. **Artists Table**: Remove Genre and create index.
   1. Add GenreID as a foreign key in the Artists table.
   2. Remove the Genre column from the Artists table.
   3. Create an index on GenreID in the Artists table.
2. **Albums Table**: Remove redundant Genre and create foreign key relationships.
   1. Remove the Genre column from the Albums table.
   2. Ensure ArtistID is a foreign key referencing Artists(ArtistID).
3. **Tracks Table**: Remove transitive dependency on ArtistGenre.
   1. Remove the ArtistGenre column from the Tracks table.
   2. Ensure AlbumID is a foreign key referencing Albums(AlbumID).