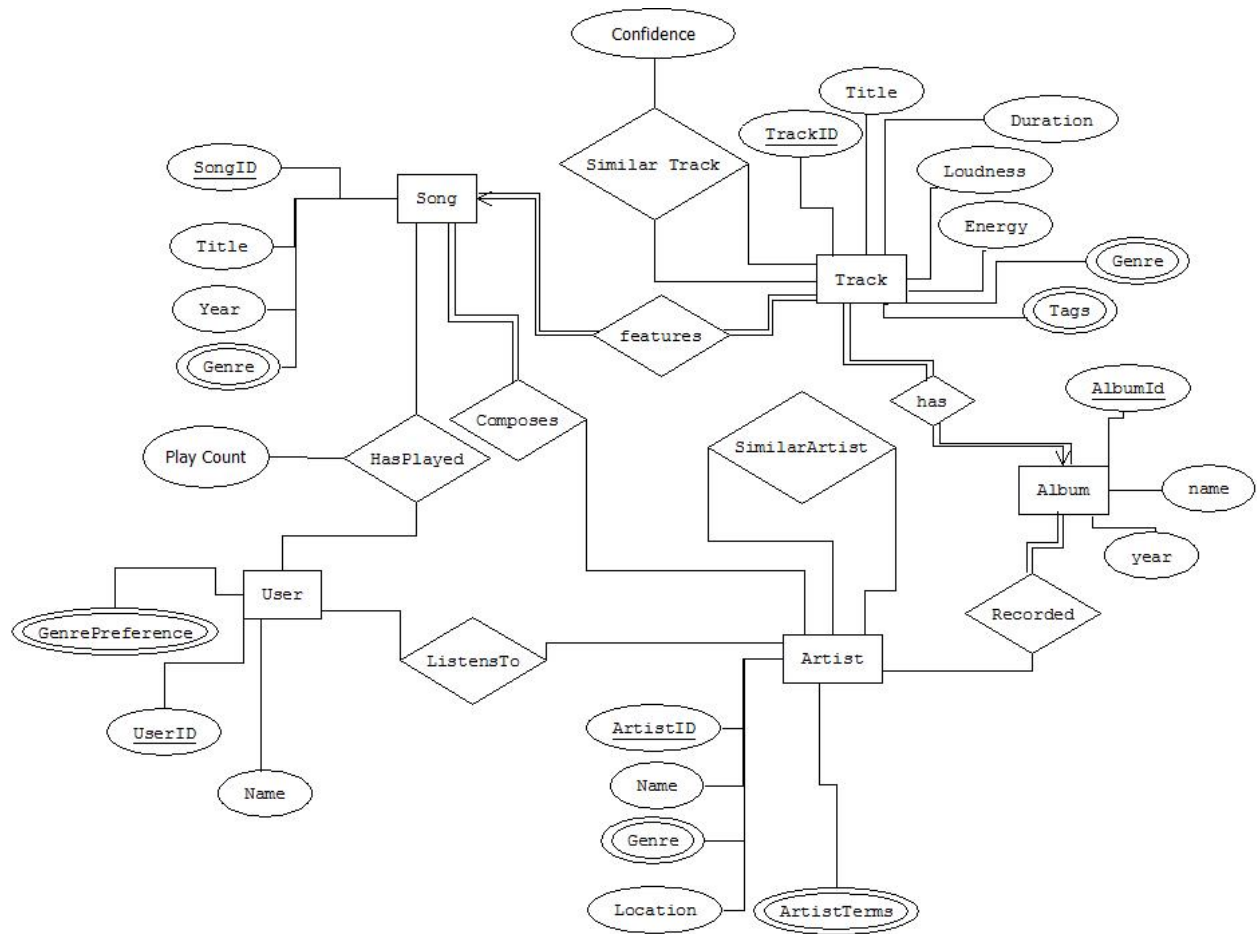


ER Diagram



The relational schema

The ER diagram has been reduced to the relational schema. This schema is in 3NF. We have used 3NF to reduce duplication of data and to maintain data integrity. The database consists of 17 tables.

Artist(ArtistID, Name, Location)

Artist_Terms(ArtistID, ArtistTerms)

Artist_Genre(ArtistId, Genre)

Song(SongID, title, year)

Song_Genre(SongID, Genre)

Track(TrackID, Title, Duration, Loudness, Energy, SongID, AlbumID)

Track_tags(TrackId, tags)

Track_Genre(TrackId, Genre)

User(UserID, Name)

GenrePreference(UserID , GenrePreference)

Album(AlbumID, name, year)

Composes(SongID, ArtistID)

ListensTo(ArtistID, UserID)

HasPlayed(SongID, UserID, playcount)

similarTrack(trackID, similartrack, confidence)

similarArtist(ArtistID, similarArtist)

Recorded(AlbumID, ArtistID)