

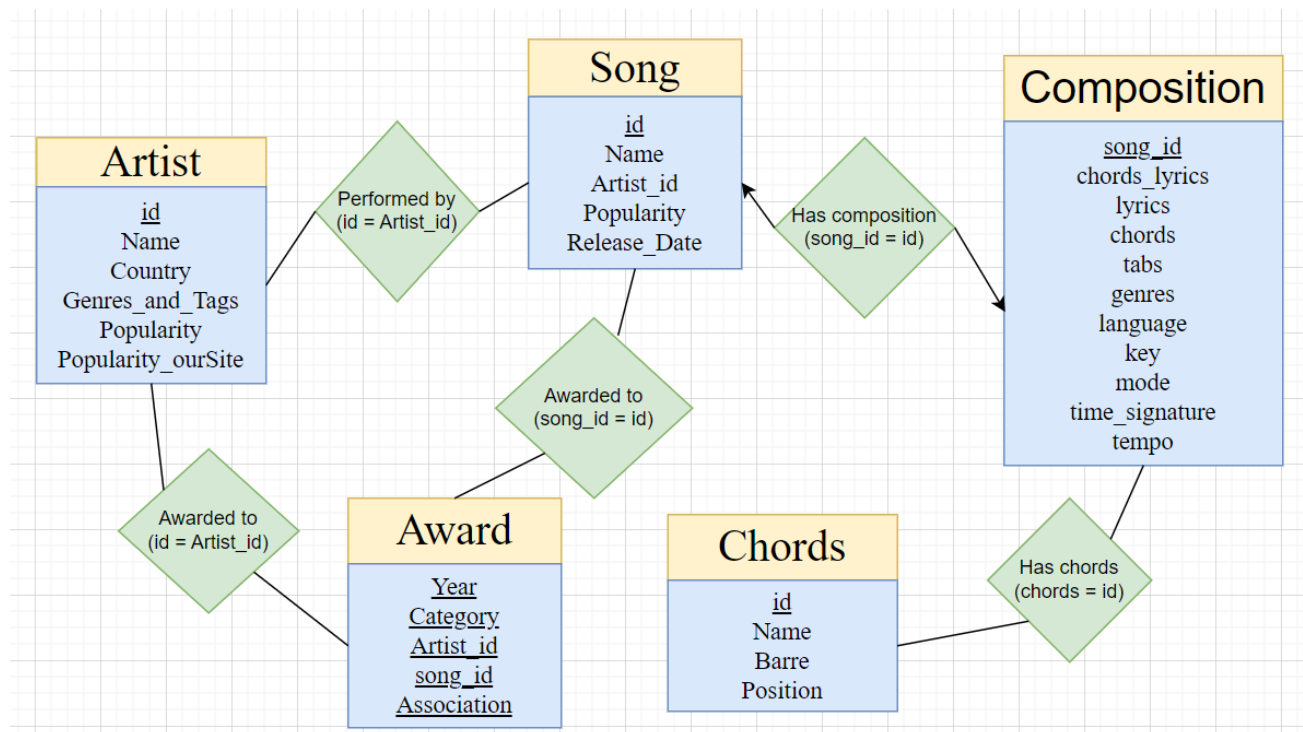
COL362 Project Milestone 1

Team: Ola Uber

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Database Design

ER Diagram



Functional Dependencies

Artist:

1. $id \rightarrow (Name, Country, Genres_and_Tags, Popularity, Popularity_ourSite)$

Song:

1. id -> (Name, Artist_id, Popularity, Release_Date)

Composition:

1. song_id -> (chords_lyrics, lyrics, chords, tabs, genres, language, key, mode, time_signature, tempo)

Chords:

1. id -> (Name, Barre, Position)
2. (Name, Barre) -> (id, Position)
3. (Name, Position) -> (id, Barre)
4. (Barre, Position) -> (id, Name)

Award: NA

FD Preserving Normalization

In all of the dependencies listed above, the set of attributes on the left give the values of all the remaining attributes of the relation. Hence, all the FDs give the entire relation and are thus in Boyce Codd Normal Form.

Relational Schema

Artist (id, Name, Country, Genres_and_Tags, Popularity, Popularity_ourSite)

Song (id, Name, Artist_id, Popularity, Release_Date)

Composition (song_id, chords_lyrics, lyrics, chords, tabs, genres, language, key, mode, time_signature, tempo)

Chords (id, Name, Barre, Position)

Award (Year, Category, Artist_id, song_id, Association)

Github Repository

Link: <https://github.com/Vibhanshu17/Ola-Uber>