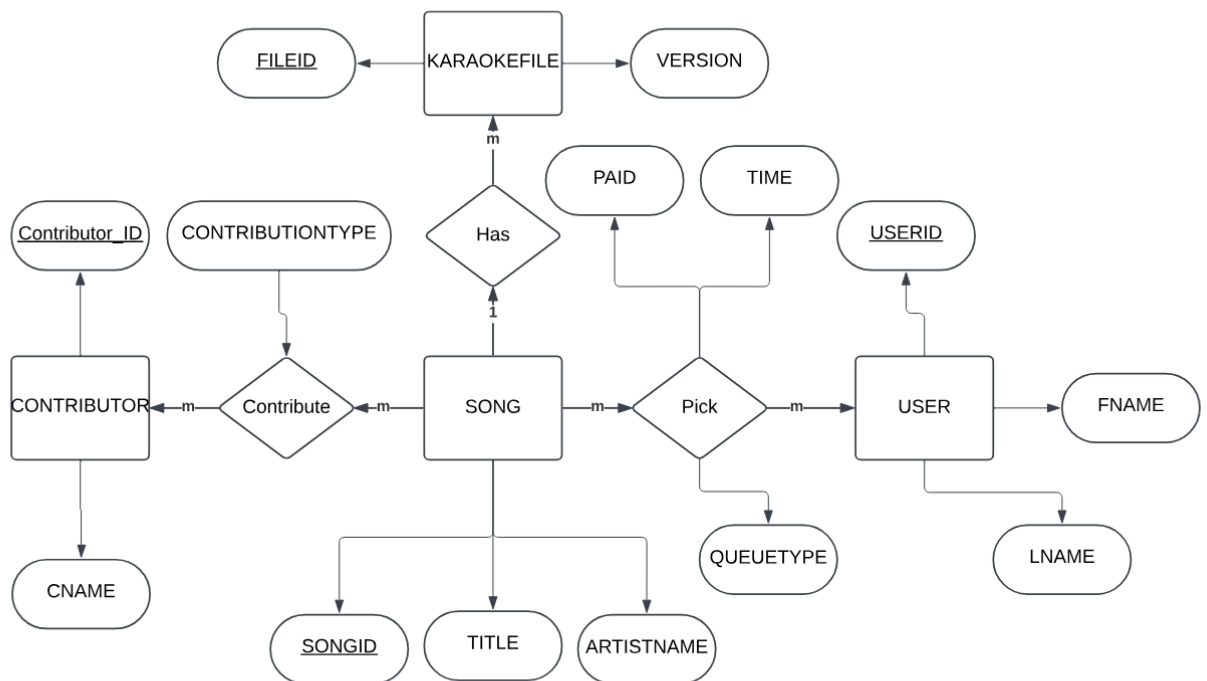


Karaoke Management System Group Project

ER Diagram

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1 Entities & Attributes

- **USER**

- USERID - A users unique identification number (primary key).
- FNAME - The users first name.
- LNAME - The users last name.

- **SONG**

- SONGID - A songs Unique identifier (primary key).
- TITLE - The name of the song.
- ARTISTNAME - The songs artist.

- **CONTRIBUTOR**

- CONTRIBUTORID A contributors unique identifier.
- CNAME - A contributors first and last name.

- **KARAOKEFILE**

- FILEID - A files unique identification number (primary key).
- VERSION - The type of performance for the song in the file.

2 Relationships & Cardinality

2.1 *Pick*

This is a binary relationship between **USER** and **SONG**.
USER *picks* **SONG**.

Intersection data

- **TIME** - The time the user picks a song.
- **QUEUETYPE** - The type of queue (free or paid) that the user is placed in.
- **PAID**: The Amount paid by a user, which determines where they will end up in the queue.

Cardinality

Many-to-Many

- A single **USER** can pick multiple **SONG**'s.
 - A single **SONG** can be picked by multiple **USER**'s.
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2.2 *Contribute*

This is a binary relationship between **CONTRIBUTOR** and **SONG**.

Intersection data

- **CONTRIBUTIONTYPE** - This is the type of contribution that a contributor made to the song.

Cardinality

- A single contributor can contribute to many songs.
- A single song can be contributed to by many contributors.

2.3 *Has*

This is a binary relationship between KARAOKEFILE and SONG

SONG *has* KARAOKEFILE.

Intersection data

- None

Cardinality

- A single song can have *many* files.
- A single file can only have *one* song.