

# Karaoke Management System Group Project

## Relational Schema

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## 1 USER

– Entity

**Relation schema:**

*USER*(USERID, FNAME, LNAME)

**Primary keys:**

- USERID is the primary key.

**Foreign keys:**

- None.
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## 2 SONG

– Entity

**Relation schema:**

*SONG*(SONGID, TITLE, ARTISTNAME)

**Primary keys:**

- SONGID is the primary key.

**Foreign keys:**

- None.
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## 3 CONTRIBUTOR

– Entity

**Relation schema:**

*CONTRIBUTOR*(CONTRIBUTORID, CNAME)

**Primary keys:**

- CONTRIBUTORID is the primary key.

**Foreign keys:**

- None.
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## 4 CONTRIBUTE

Many-to-Many Relationship between the SONG and CONTRIBUTOR entities.

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**Relation schema:**

***CONTRIBUTE***(SONGID, CONTRIBUTORID, CONTRIBUTIONTYPE)

**Primary keys:**

- SONGID
- CONTRIBUTORID

**Foreign keys:**

- SONGID - home relation: SONG
  - CONTRIBUTORID - home relation: CONTRIBUTOR
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## 5 KARAOKEFILE

– Entity

**Relation schema:**

***KARAOKEFILE***(FILEID, SONGID, VERSION) – Entity

**Primary keys:**

- FILEID is the primary key.

**Foreign keys:**

- SONGID - home relation: SONG
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## 6 PICK

Many-to-Many Relationship between the USER and SONG entities.

**Relation schema:**

***PICK***(USERID, SONGID, QUEUE TYPE, PAID, TIME, FILEID)

**Primary keys:**

- USERID
- SONGID

**Foreign keys:**

- USERID - home relation: USER
- SONGID - home relation: SONG
- FILEID - home relation: KARAOKEFILE