

SQL Schema for MusicParty

```
CREATE TABLE User(  
    uid int,  
    username char(20) NOT NULL,  
    date_of_birth date NOT NULL,  
    email text NOT NULL,  
    PRIMARY KEY (uid)  
)  
  
CREATE TABLE Party(  
    pid int,  
    party_name text,  
    creation_time timestamp,  
    uid int NOT NULL,  
    PRIMARY KEY (pid),  
    FOREIGN KEY (uid) REFERENCES User  
        ON DELETE NO ACTION  
)  
  
CREATE TABLE Participates(  
    uid int,  
    pid int,  
    join_time timestamp,  
    end_time timestamp,  
    PRIMARY KEY (uid, pid)  
    FOREIGN KEY (uid) REFERENCES User,  
    FOREIGN KEY (pid) REFERENCES Party  
)  
  
CREATE TABLE Song(  
    sid int,  
    title text NOT NULL,  
    length int NOT NULL,  
    PRIMARY KEY (sid)  
)  
  
CREATE TABLE Song_Plays(  
    pid int,  
    sid int,  
    start_time timestamp,  
    end_time timestamp,  
    PRIMARY KEY (pid, sid),  
    FOREIGN KEY (pid) REFERENCES Party,  
    FOREIGN KEY (sid) REFERENCES Song  
)  
  
CREATE TABLE Comment_Belongs_To(  
    cid int,  
    message text,
```

```
        creation_time timestamp,
        uid int,
        pid int,
        sid int,
        PRIMARY KEY (cid, uid, pid, sid),
        FOREIGN KEY (pid, sid) REFERENCES Song_Plays
            ON DELETE CASCADE,
        FOREIGN KEY (uid) REFERENCES User
            ON DELETE CASCADE
    )

CREATE TABLE Interest(
    interest_id int,
    category text,
    keyword char(20),
    PRIMARY KEY (interest_id)
)

CREATE TABLE Tags(
    interest_id int,
    pid int,
    PRIMARY KEY (interest_id, pid),
    FOREIGN KEY (interest_id) REFERENCES Interest,
    FOREIGN KEY (pid) REFERENCES Party
)

CREATE TABLE Playlist_Generates(
    plid int,
    interest_id int,
    PRIMARY KEY (plid),
    FOREIGN KEY (interest_id) REFERENCES Interest
)

CREATE TABLE Contains(
    plid int,
    sid int NOT NULL,
    user_votes int,
    PRIMARY KEY (plid, sid)
    FOREIGN KEY (plid) REFERENCES Playlist,
    FOREIGN KEY (sid) REFERENCES Song
)
```