

```
CREATE TABLE users (  
  user_name VARCHAR,  
  user_id SERIAL,  
  email VARCHAR,  
  -- password VARCHAR(8),  
  PRIMARY KEY(user_id)  
);
```

```
CREATE TABLE creator(  
  creator_name VARCHAR,  
  creator_id SERIAL,  
  user_id INT,  
  PRIMARY KEY(creator_id)  
);
```

```
CREATE TABLE listener(  
  listener_name VARCHAR,  
  listener_id SERIAL,  
  user_id INT,  
  subscription_id INT,  
  PRIMARY KEY(listener_id),  
  FOREIGN KEY (user_id) REFERENCES users(user_id)  
);
```

```
CREATE TABLE song(  
  song_id INT,  
  artist_name VARCHAR,  
  -- lyrics VARCHAR(200),  
  album_name VARCHAR(20),  
  duration FLOAT,  
  release_date VARCHAR,  
  rating INT,  
  count_of_listener INT,  
  genre VARCHAR,  
  songname VARCHAR,  
  PRIMARY KEY(song_id));
```

```
CREATE TABLE create_song(  
  creator_id INT,  
  song_id INT,  
  role_type VARCHAR,  
  PRIMARY KEY(song_id),  
  FOREIGN KEY(song_id) REFERENCES song(song_id),
```

```
FOREIGN KEY(creator_id) REFERENCES creator(creator_id)
);
```

```
CREATE TABLE singer(
singer_id SERIAL,
singer_name VARCHAR,
PRIMARY KEY(singer_id)
);
```

```
CREATE TABLE composer(
Composer_id SERIAL,
composer_name VARCHAR,
PRIMARY KEY(Composer_id)
);
```

```
CREATE TABLE playlist(
user_id INT,
playlist_name VARCHAR(50),
playlist_id SERIAL,
duration FLOAT,
PRIMARY KEY(playlist_id),
FOREIGN KEY(user_id) REFERENCES users(user_id)
);
```

```
CREATE TABLE platform(
platform_id SERIAL,
platform_name VARCHAR,
PRIMARY KEY(platform_id)
);
```

```
CREATE TABLE song_on_platform(
song_id INT,
platform_id INT,
platform_link VARCHAR,
PRIMARY KEY(song_id,platform_id),
FOREIGN KEY(platform_id) REFERENCES platform(platform_id),
FOREIGN KEY(song_id) REFERENCES song(song_id)
);
```

```
CREATE TABLE subscription(
user_id INT,
price INT,
subscription_type VARCHAR(20),
PRIMARY KEY(user_id ),
```

```
FOREIGN KEY(user_id) REFERENCES users(user_id)
);
```

```
CREATE TABLE recommendation(
recommendation_rank INT,
song_id INT PRIMARY KEY,
FOREIGN KEY(song_id) REFERENCES song(song_id)
);
```

```
CREATE TABLE movie(
movie_name VARCHAR,
movie_id INT,
song_id INT,
PRIMARY KEY(movie_id,song_id),
FOREIGN KEY(song_id) REFERENCES song(song_id)
);
```

```
CREATE TABLE share(
user_id INT,
playlist_id INT,
Access_type VARCHAR(20),
PRIMARY KEY(user_id,playlist_id),
FOREIGN KEY(user_id) REFERENCES users(user_id),
FOREIGN KEY(playlist_id) REFERENCES playlist(playlist_id)
);
```

```
CREATE TABLE playlist_song(
song_id INT,
playlist_id INT,
PRIMARY KEY(playlist_id, song_id),
FOREIGN KEY(song_id) REFERENCES song(song_id),
FOREIGN KEY(playlist_id) REFERENCES playlist(playlist_id)
);
```

```
CREATE TABLE rates(
song_id INT,
listener_id INT,
rating INT,
PRIMARY KEY(song_id,listener_id),
FOREIGN KEY(song_id) REFERENCES song(song_id),
FOREIGN KEY(listener_id) REFERENCES listener(listener_id)
);
```

