DDL COMMANDS FOR MUSIC DATABASE

QUERIES

```
1
 2
    create table if not exists user_types(
        type_id int primary key,
 3
 4
        user_role varchar(15),
        constraint user_role_key unique(user_role)
 5
 6
    );
 7
 8
    create table if not exists users(
        user_id int primary key,
 9
        user_type int,
10
        first_name varchar(30),
11
12
        last_name varchar(30),
13
        gender varchar(10),
        birth_date date,
14
        email varchar(80),
15
        password varchar(125),
16
        image_id int,
17
        last_login date,
18
19
        active_status bool,
        constraint email_key unique(email),
20
        constraint fk_user_type foreign key (user_type) references user_types(type_id)
21
   );
22
```

```
create table if not exists genre(
24
          genre_id int primary key,
25
          genre_name varchar(15),
26
          constraint genre_name_key unique (genre_name)
27
28
     );
29
     create table if not exists image(
30
          image_id int primary key,
31
          image_location varchar(250),
32
          image_desc varchar (100)
33
     );
34
35
     create table if not exists lyrics(
36
          lyrics_id int primary key,
37
          lyrics_description varchar(1000),
38
          creator name varchar(50)
39
     );
40
41
42
   create table if not exists playlist(
       playlist_id int primary key,
43
       user_id int,
44
       playlist_name varchar(15),
45
46
       constraint fk_playlist_user_id foreign key (user_id) references users(user_id)
47
   );
48
49
   create table if not exists artist(
       artist_id int primary key,
50
       artist_name varchar(50),
51
52
       total_songs int,
       total_albums int,
53
54
       image_id int,
       constraint artist_name_key unique(artist_name),
55
       constraint fk_artist_image_id foreign key (image_id) references image(image_id)
56
57
   );
50
```

```
album_id int primary key,
60
         album_name varchar(20),
61
         release_date date,
62
         album_length float,
63
64
         total_tracks int,
         artist_id int,
65
         genre_id int,
66
         image_id int,
67
         download_pemr bool,
68
         constraint fk_album_genre_id foreign key (genre_id) references genre(genre_id),
69
         constraint fk_album_artist_id foreign key (artist_id) references artist(artist_id),
70
         constraint fk_album_image_id foreign key (image_id) references image(image_id)
71
72
    );
73
    create table if not exists songs(
75
        song_id int primary key,
76
        title varchar(20),
77
78
        lenth float,
        album_id int,
79
        genre_id int,
80
        lyrics_id int,
81
        playlist_id int,
82
        download_perm bool,
83
        constraint fk_song_genre_id foreign key (genre_id) references genre(genre_id),
84
        constraint fk_song_artist_id foreign key (album_id) references album(album_id),
85
        constraint fk_songs_lyrics_id foreign key (lyrics_id) references lyrics(lyrics_id),
86
        constraint fk_songs_playlist_id foreign key (playlist_id) references playlist(playlist_id)
87
88
    );
89
```

create table if not exists album(

59

OUTPUTS

```
SQL Shell (psql)
                                                                                                                      X
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (11.8)
WARNING: Console code page (437) differs from Windows code page (1252)
         page "Notes for Windows users" for details.
Type "help" for help.
postgres=# \c music_db
You are now connected to database "music_db" as user "postgres".
music_db=# \d user_types
                      Table "public.user_types"
                                     | Collation | Nullable | Default
  Column
                      Type
 type_id
           integer
                                                  not null
user_role | character varying(15)
Indexes:
    "user_types_pkey" PRIMARY KEY, btree (type_id)
    "user_role_key" UNIQUE CONSTRAINT, btree (user_role)
Referenced by:
    TABLE "users" CONSTRAINT "fk_user_type" FOREIGN KEY (user_type) REFERENCES user_types(type_id)
music db=#
music db=# \d users
                           Table "public.users"
    Column
                                   | Collation | Nullable | Default
user_id
                  integer
                                                         not null
 user_type
                  integer
 first_name
                 character varying(30)
                 character varying(30)
last_name
                 character varying(10)
 gender
birth_date
                 date
                 character varying(80)
email
                 character varying(125)
password
 image_id
                 integer
last_login
                 date
active_status | boolean
Indexes:
    "users_pkey" PRIMARY KEY, btree (user_id)
    "email_key" UNIQUE CONSTRAINT, btree (email)
Foreign-key constraints:
    "fk_user_type" FOREIGN KEY (user_type)    REFERENCES user_types(type_id)
Referenced by:
    TABLE "playlist" CONSTRAINT "fk_playlist_user_id" FOREIGN KEY (user_id) REFERENCES users(user_id)
```

music db=#

```
music_db=# \d genre
                        Table "public.genre"
                                  | Collation | Nullable | Default
  Column
genre_id
             integer
                                                  not null
genre_name | character varying(15)
Indexes:
    'genre_pkey" PRIMARY KEY, btree (genre_id)
    "genre_name_key" UNIQUE CONSTRAINT, btree (genre_name)
Referenced by:
   TABLE "album" CONSTRAINT "fk_album_genre_id" FOREIGN KEY (genre_id) REFERENCES genre(genre_id)
   TABLE "songs" CONSTRAINT "fk_song_genre_id" FOREIGN KEY (genre_id) REFERENCES genre(genre_id)
music_db=# _
music_db=# \d image
                           Table "public.image"
                                         | Collation | Nullable | Default
    Column
                 integer
image_id
                                                       not null
image_location |
                 character varying(250)
image_desc
                character varying(100)
Indexes:
   "image_pkey" PRIMARY KEY, btree (image_id)
Referenced by:
   TABLE "album" CONSTRAINT "fk_album_image_id" FOREIGN KEY (image_id) REFERENCES image(image_id)
   TABLE "artist" CONSTRAINT "fk_artist_image_id" FOREIGN KEY (image_id) REFERENCES image(image_id)
music_db=#
music_db=# \d lyrics
                             Table "public.lyrics"
                                              | Collation | Nullable | Default
      Column
lyrics_id
                     integer
                                                            not null
lyrics_description |
                     character varying(1000)
creator_name
                   character varying(50)
Indexes:
    "lyrics_pkey" PRIMARY KEY, btree (lyrics_id)
Referenced by:
   TABLE "songs" CONSTRAINT "fk_songs_lyrics_id" FOREIGN KEY (lyrics_id) REFERENCES lyrics(lyrics_id)
music_db=#
music_db=# \d playlist
                        Table "public.playlist"
                                       | Collation | Nullable | Default
   Column
playlist_id
               integer
                                                     not null
user_id
               integer
playlist_name | character varying(15) |
    "playlist_pkey" PRIMARY KEY, btree (playlist_id)
Foreign-key constraints:
    "fk_playlist_user_id" FOREIGN KEY (user_id) REFERENCES users(user_id)
Referenced by:
   TABLE "songs" CONSTRAINT "fk_songs_playlist_id" FOREIGN KEY (playlist_id) REFERENCES playlist(playlist_id)
```

music_db=#

```
music db=# \d artist
                         Table "public.artist"
                                      | Collation | Nullable | Default
   Column
artist_id
                integer
                                                     not null
artist_name
                character varying(50)
total_songs
                integer
total_albums
                integer
image_id
               integer
Indexes:
    "artist_pkey" PRIMARY KEY, btree (artist_id)
    "artist_name_key" UNIQUE CONSTRAINT, btree (artist_name)
Foreign-key constraints:
    "fk_artist_image_id" FOREIGN KEY (image_id) REFERENCES image(image_id)
Referenced by:
    TABLE "album" CONSTRAINT "fk_album_artist_id" FOREIGN KEY (artist_id) REFERENCES artist(artist_id)
music_db=# _
music_db=# \d album
                          Table "public.album"
   Column
                         Type
                                       | Collation | Nullable | Default
album_id
                 integer
                                                     not null
album_name
                 character varying(20)
release_date
                 date
album_length
                 double precision
total_tracks
                 integer
artist_id
                 integer
genre_id
                 integer
image_id
                 integer
download_pemr | boolean
Indexes:
    "album_pkey" PRIMARY KEY, btree (album_id)
Foreign-key constraints:
    "fk_album_artist_id" FOREIGN KEY (artist_id) REFERENCES artist(artist_id)
    "fk_album_genre_id" FOREIGN KEY (genre_id) REFERENCES genre(genre_id)
    "fk_album_image_id" FOREIGN KEY (image_id) REFERENCES image(image_id)
Referenced by:
    TABLE "songs" CONSTRAINT "fk_song_artist_id" FOREIGN KEY (album_id) REFERENCES album(album_id)
```

music_db=#

music_ub=# \u sc	7116-3			
Table "public.songs"				
Column	Туре	Collation	Nullable	Default
song_id	integer	!	not null	+
title	character varying(20)	i i		İ
lenth	double precision			ĺ
album_id	integer			l
genre_id	integer			
lyrics_id	integer			
playlist_id	integer			
download_perm	boolean			l
Indexes:				

music_db=#

[&]quot;songs_pkey" PRIMARY KEY, btree (song_id)
Foreign-key constraints:
 "fk_song_artist_id" FOREIGN KEY (album_id) REFERENCES album(album_id)
 "fk_song_genre_id" FOREIGN KEY (genre_id) REFERENCES genre(genre_id)
 "fk_songs_lyrics_id" FOREIGN KEY (lyrics_id) REFERENCES lyrics(lyrics_id)
 "fk_songs_playlist_id" FOREIGN KEY (playlist_id) REFERENCES playlist(playlist_id)