Theme: Music application

Project requirements:

- Registration
- Authorization
- View list of the songs
- View list of the albums
- View all of these according to selected genre
- *Logging

Roles:

- 1. User
 - I. CRUD Playlists
 - II. Subscribe/change subscription/unsubscribe
- 2. Artist
 - I. CRUD Tracks
 - II. CRUD Albums
- 3. Admin
 - I. CRUD Playlists, CRUD Subscriptions, CRUD Tracks, CRUD Albums, CRUD Users, CRUD Label

Tables

Roles:

| Name: | Type: | Restrictions(PK, FK) |
|-------|--------------|----------------------|
| Id | smallserial | PK |
| Role | varchar(100) | NOT NULL UNIQUE |

AbstractUser:

| Name: | Type: | Restrictions(PK, FK) |
|----------|---------------|----------------------|
| Id | bigserial | PK |
| Login | varchar(100) | NOT NULL UNIQUE |
| Email | varchar(256) | NOT NULL UNIQUE |
| Password | varchar(256) | NOT NULL |
| RoleID | (smallserial) | FK |

Artist:

| Name: | Туре: | Restrictions(PK, FK) |
|----------------|---------------|----------------------|
| Id | bigserial | PK |
| AbstractUserID | (bigserial) | FK |
| Country | varchar(56) | NOT NULL |
| Instruments | varchar(256) | NOT NULL |
| Website | varchar(256) | NOT NULL UNIQUE |
| Label | (bigserial) | FK |
| GenrelD | (smallserial) | FK |

User:

| Name: | Type: | Restrictions(PK, FK) |
|-------|-----------|----------------------|
| Id | bigserial | PK |

| AbstractUserID | (bigserial) | FK |
|----------------|---------------|----|
| Subscription | (smallserial) | FK |

Label:

| Name: | Type: | Restrictions(PK, FK) |
|----------|--------------|----------------------|
| Id | bigserial | PK |
| ArtsitID | (bigserial) | FK |
| Name | varchar(150) | NOT NULL UNIQUE |
| Budget | money | NOT NULL >=0 |

Album:

| Name: | Type: | Restrictions(PK, FK) |
|--------------|--------------|----------------------|
| Id | bigserial | PK |
| ArtsitID | (bigserial) | FK |
| Name | varchar(150) | NOT NULL |
| Release date | date | NOT NULL |

Track:

| Name: | Type: | Restrictions(PK, FK) |
|-----------|---------------|----------------------|
| Id | bigserial | PK |
| AlbumID | (bigserial) | FK |
| Name | varchar(150) | NOT NULL |
| Timing | time | NOT NULL |
| Likes | bigint | NOT NULL >=0 |
| Streaming | bigint | NOT NULL >=0 |
| GenreID | (smallserial) | FK |

Genre:

| Name: | Type: | Restrictions(PK, FK) |
|-----------|--------------|----------------------|
| Id | smallserial | PK |
| Name | varchar(150) | NOT NULL UNIQUE |
| ArtistsID | FK | FK |
| TrackID | FK | FK |

Playlist:

| Name: | Type: | Restrictions(PK, FK) |
|---------|--------------|----------------------|
| Id | bigserial | PK |
| Name | varchar(150) | NOT NULL UNIQUE |
| Tracks | ARRAY | |
| UserID | bigserial | FK |
| GenreID | ARRAY | |

Subscription:

| Name: | Type: | Restrictions(PK, FK) |
|-------|--------------|----------------------|
| Id | bigserial | PK |
| Title | varchar(150) | NOT NULL UNIQUE |

| Cost money | NOT NULL >=0 |
|-------------------|--------------|
|-------------------|--------------|

Logging:

| Name: | Туре: | Restrictions(PK, FK) |
|----------------|--------------|----------------------|
| Id | bigserial | PK |
| AbstractUserID | (bigserial) | FK |
| Message | varchar(500) | NOT NULL |
| AbstractUserID | (bigserial) | FK |