Delta Music

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Introduction

- Digital music service
- Playlist creation
- Offline access

Database

Schema:

Artists(<u>artist_id</u>, name)
Genres(<u>genre_id</u>, name)
Albums(<u>album_id</u>, title, artist, genre)
Tracks(<u>track_id, artist_id,</u> name, album_id, genre_id, file)
Libraries(<u>library_id, track_id, artist_id</u>)
Playlist_tracks(<u>track_id, artist_id, playlist_id</u>)
Playlists(<u>playlist_id</u>, name)
Users(<u>user_id</u>, username, password, first_name, last_name, email)

Constraints:

$\pi_{\text{artist\_id}}(\text{Tracks}) \subseteq \pi_{\text{artist\_id}}(\text{Artists})$

$\pi_{\text{album\_id}}(\text{Tracks}) \subseteq \pi_{\text{album\_id}}(\text{Albums})$

$\pi_{\text{genre\_id}}(\text{Tracks}) \subseteq \pi_{\text{playlist\_id}}(\text{Genre})$

$\pi_{\text{track\_id, artist\_id}}(\text{Playlist\_tracks}) \subseteq$
$\pi_{\text{track\_id, artist\_id}}(\text{Tracks})$

$\pi_{\text{playlist\_id}}(\text{Playlist\_tracks}) \subseteq$
$\pi_{\text{playlist\_id}}(\text{Playlists})$

$\pi_{\text{subscription\_id}}(\text{Users}) \subseteq$

$\pi_{\text{library\_id}}(\text{Library}) \subseteq \pi_{\text{user\_id}}(\text{Users})$

$\pi_{\text{track\_id, artist\_id}}() \subseteq \pi_{\text{track\_id, artist\_id}}(\text{Tracks})$

How to Use Delta Music

- Sign Up
- Create playlists
- Add, delete tracks
- Listen to the Songs