

User

id

- **Type:** int
 - **Constraints:** auto increment, not null, unique, primary key
-

email

- **Type:** varchar(50)
 - **Constraints:** not null, unique
 - **Description:** email of user
-

password

- **Type:** varchar(25)
 - **Constraints:** not null;
 - **Description:** hashed user password
-

role

- **Type:** int(enumerate) - 0: User; 1: Author; 2: Editor; 3: Administrator
 - **Constraints:** not null, default = 0;
 - **Description:** role of user
-

username

- **Type:** varchar(50)
 - **Constraints:** not null, unique;
 - **Description:** username of user
-

avatar

- **Type:** bytea
 - **Constraints:** < 2mb
 - **Description:** photo of user profile
-

updated_at

- **Type:** timestamp
 - **Constraints:** not null, default = date of creation
 - **Description:** time of last changing
-

Book

id

- **Type:** int
 - **Constraints:** auto increment, not null, unique, primary key
-

url_to_file

- **Type:** varchar(500)
 - **Constraints:** not null
 - **Description:** url for downloading book
-

publisher_id

- **Type:** int
 - **Constraints:** not null, foreign key to User table;
 - **Description:** id of user, that published this book
-

titular_photo

- **Type:** bytea
 - **Constraints:** < 2mb
 - **Description:** photo of book profile
-

author

- **Type:** varchar(250)
 - **Constraints:** not null, default = publisher.username
 - **Description:** author of the book
-

name

- **Type:** varchar(100)
 - **Constraints:** not null
 - **Description:** name of the book
-

genre

- **Type:** varchar(100)
 - **Constraints:** not null
 - **Description:** genre of the book
-

description

- **Type:** text
 - **Constraints:**
 - **Description:** description of the book
-

rating

- **Type:** float
 - **Constraints:** not null, default = 0, $0 \leq \text{val} \leq 5$
 - **Description:** rating of the book
-

pages_number

- **Type:** int
 - **Constraints:** $0 < \text{val}$
 - **Description:** the number of book pages
-

status

- **Type:** int(enumerate): -1: not_allowed, 0: in_review, 1: allowed
 - **Constraints:** not null, default = 0
 - **Description:** whether the book has been admitted to the library
-

updated_at

- **Type:** timestamp
 - **Constraints:** not null, default = date of creation
 - **Description:** time of last changing
-

Reading_progress

id

- **Type:** int
 - **Constraints:** auto increment, not null, unique, primary key
-

book_id

- **Type:** int
 - **Constraints:** not null, foreign key to Book table
 - **Description:** id of the book
-

user_id

- **Type:** int
 - **Constraints:** not null, foreign key to User table
 - **Description:** id of the user
-

path_to_file

- **Type:** varchar(500)
 - **Constraints:** not null
 - **Description:** path to downloaded book
-

last_page

- **Type:** int
 - **Constraints:** not null, default = 0, 0 <= val
 - **Description:** number of page, where user stop reading
-

is_favorite

- **Type:** bool
 - **Constraints:** not null, default = false
 - **Description:** is book favorite for user
-

theme

- **Type:** int(enumerator): 0: White, 1: Black, 2: Sepia
 - **Constraints:** not null, default = 0
 - **Description:** theme of this book for user
-

font_size

- **Type:** int
 - **Constraints:** not null
 - **Description:** font size of this book for user
-

updated_at

- **Type:** timestamp
 - **Constraints:** not null, default = date of creation
 - **Description:** time of last changing
-

Bookmark

id

- **Type:** int
 - **Constraints:** auto increment, not null, unique, primary key
-

reading_progress_id

- **Type:** int
 - **Constraints:** not null, foreign key to Reading_progress table
 - **Description:** id of the reading_progress
-

page_number

- **Type:** int
 - **Constraints:** not null, $0 \leq \text{val} \leq \text{reading_progress.book.pages_number}$
 - **Description:** the number of the page that containing the bookmark
-

note

- **Type:** text
 - **Constraints:**
 - **Description:** note for bookmark
-

updated_at:

- **Type:** timestamp
- **Constraints:** not null, default = date of creation
- **Description:** time of last changing