



# Database Objects

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## Database: librdb

Description: the “librdb” database contains data about library users, books and user orders

Tables (8)

No	Table name	Description
1	role	defines the user's role for the differentiation of powers
2	user	contains all users
3	author	contains authors
4	publisher	contains publishers
5	genre	contains genres
6	book	contains books and their characteristics
7	delivery_desk	contains all delivery desks coordinates current user
8	delivery_desk_has_book	the table is used to describe the many-to-many relationship between delivery desks and books

## Table Details

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### Table: role

Description: defines the user's role for the differentiation of powers

Columns (2)

No	Name	System type	Properties	Description
1	id	INT	Primary key, not null	Primary key for role table
2	name	VARCHAR(45)	Not null	The name of role

### Table: user

Description: contains all users

Columns (8)

No	Name	System type	Properties	Description
1	id	INT	Primary key, not null, auto increment	Primary key for user table
2	name	VARCHAR(45)	Not null	User name
3	surname	VARCHAR(45)	Not null	User surname
4	login	VARCHAR(45)	Not null, unique	User login
5	password	VARCHAR(45)	Not null	User password
6	role_id	INT	Not null, default(3), foreign key(role_id) references librd.db.role (id) on delete restrict on update cascade	User role_id makes it possible to determine current role name
7	mail	VARCHAR(45)	Not null	User mail
8	status	ENUM('active', 'block')	Not null, default('active')	User status can take on the following values: active, block

### Table: author

Description: contains all authors

Columns (2)

No	Name	System type	Properties	Description
1	id	INT	Primary key, not null, auto increment	Primary key for author table
2	name	VARCHAR(45)	Not null	Author name

### Table: publisher

Description: contains all publishers

Columns (2)

No	Name	System type	Properties	Description
1	id	INT	Primary key, not null, auto increment	Primary key for publisher table
2	name	VARCHAR(45)	Not null	Publisher name

### Table: genre

Description: contains all genres

Columns (2)

No	Name	System type	Properties	Description
1	id	INT	Primary key, not null, auto increment	Primary key for genre table
2	name	VARCHAR(45)	Not null	Genre name

### Table: book

Description: contains all users

Columns (2)

Nº	Name	System type	Properties	Description
1	id	INT	Primary key, not null, auto increment	Primary key for book table
2	name	VARCHAR(45)	Not null	Book name
3	author_id	INT	Not null, foreign key(author_id) references librd.db.author (id) on delete restrict on update cascade	Book author_id makes it possible to determine current author name
4	genre_id	INT	Not null, foreign key(genre_id) references librd.db.genre (id) on delete restrict on update cascade	Book genre_id makes it possible to determine current genre name
5	publisher_id	INT	Not null, foreign key(publisher_id) references librd.db.publisher (id) on delete restrict on update cascade	Book publisher_id makes it possible to determine current publisher name
6	year_of_publication	INT	Not null	Book publication year
7	count	INT	Not null	Book count
8	image	LONGBLOB		Book image

### Table: delivery\_desk

Description: contains all delivery desks

Columns (2)

Nº	Name	System type	Properties	Description
1	id	INT	Primary key, not null, auto increment	Primary key for author table
2	user_id	INT	Foreign key(user_id) references librd.db.user(id) on delete set null on update cascade	Author name

## Table: delivery\_desk\_has\_book

Description: contains all user orders on delivery desk

Columns (2)

Nº	Name	System type	Properties	Description
1	delivery_desk_id	INT	Primary key, not null, foreign key(delivery_desk_id) references librdb.delivery_desk(id) on delete cascade on update cascade	Key delivery_desk_id makes it possible to determine current user delivery desk
2	book_id	INT	Primary key, not null, foreign key(book_id) references librdb.book(id) on delete restrict on update cascade	Key book_id makes it possible to determine current book for user order
3	date_of_issue	DATE		Issue date
4	return_date	DATE		Return date
5	status	ENUM(ordered, issued, returned)	Not null, default(odered)	Book lease status
6	penalty	INT	Not null, default(0)	A penalty is charged in case of violation of the terms of the lease