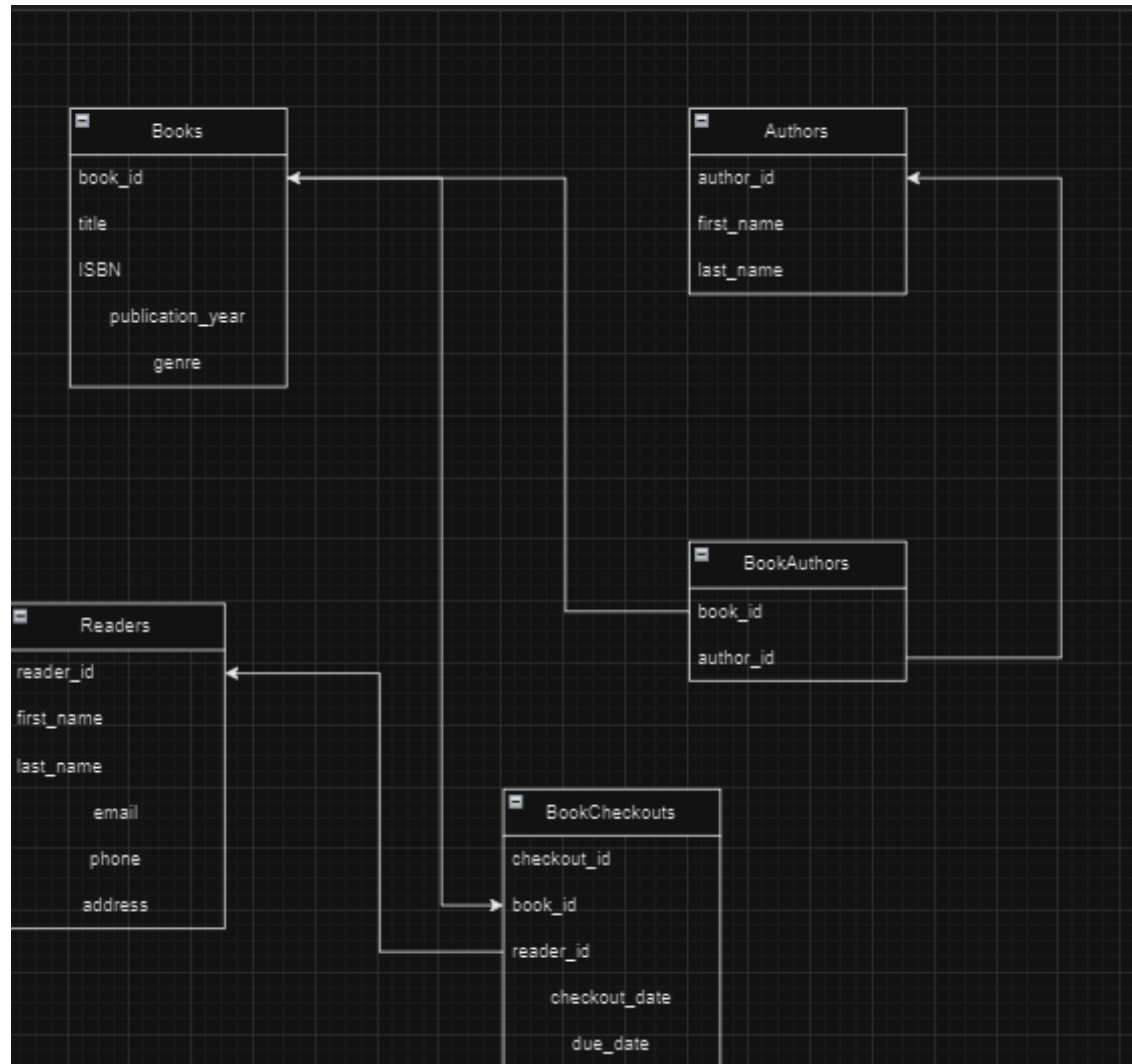
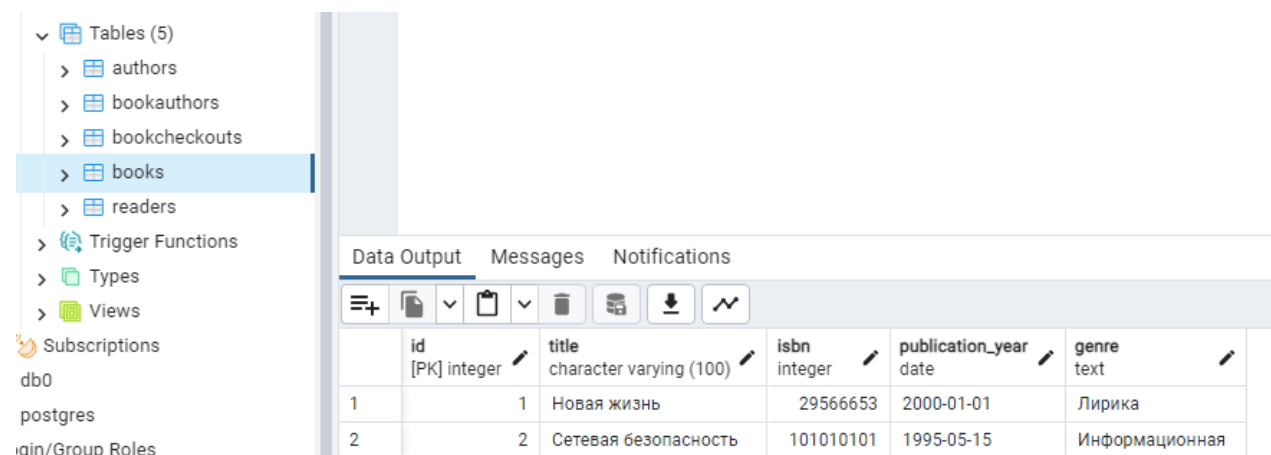


# Лабораторная работа №7

## Основная схема

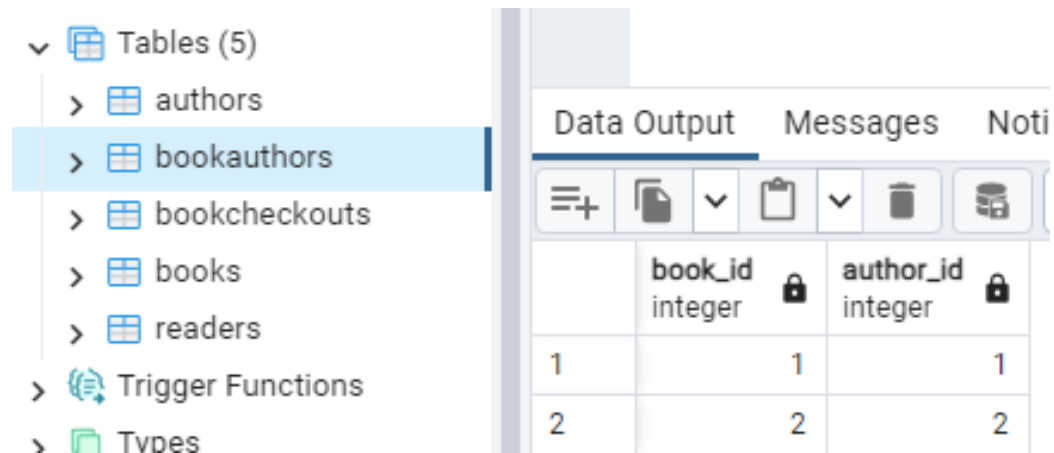


# Таблица books, связь: book\_id передаёт данные в bookauthors



The screenshot shows a database management interface. On the left, a tree view lists database objects: Tables (5), authors, bookauthors, bookcheckouts, books (selected), readers, Trigger Functions, Types, and Views. Below this, it shows 'db0', 'postgres', and 'main/Group Roles'. The main pane displays the 'Data Output' tab for the 'books' table. The table has columns: id [PK] integer, title character varying (100), isbn integer, publication\_year date, and genre text. Two rows of data are shown.

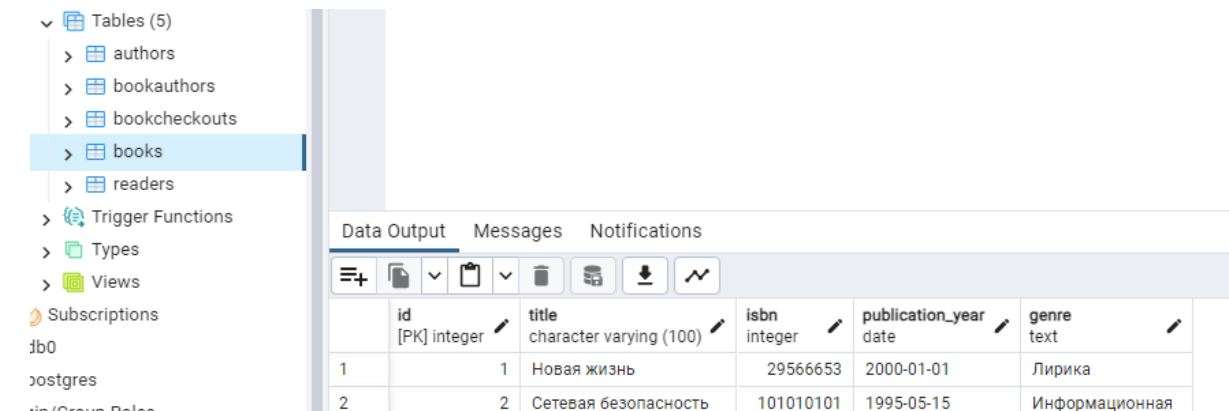
	id [PK] integer	title character varying (100)	isbn integer	publication_year date	genre text
1	1	Новая жизнь	29566653	2000-01-01	Лирика
2	2	Сетевая безопасность	101010101	1995-05-15	Информационная



The screenshot shows the same database management interface, but with the 'bookauthors' table selected in the tree view. The main pane displays the 'Data Output' tab for the 'bookauthors' table. The table has columns: book\_id integer and author\_id integer, both marked with a lock icon. Two rows of data are shown.

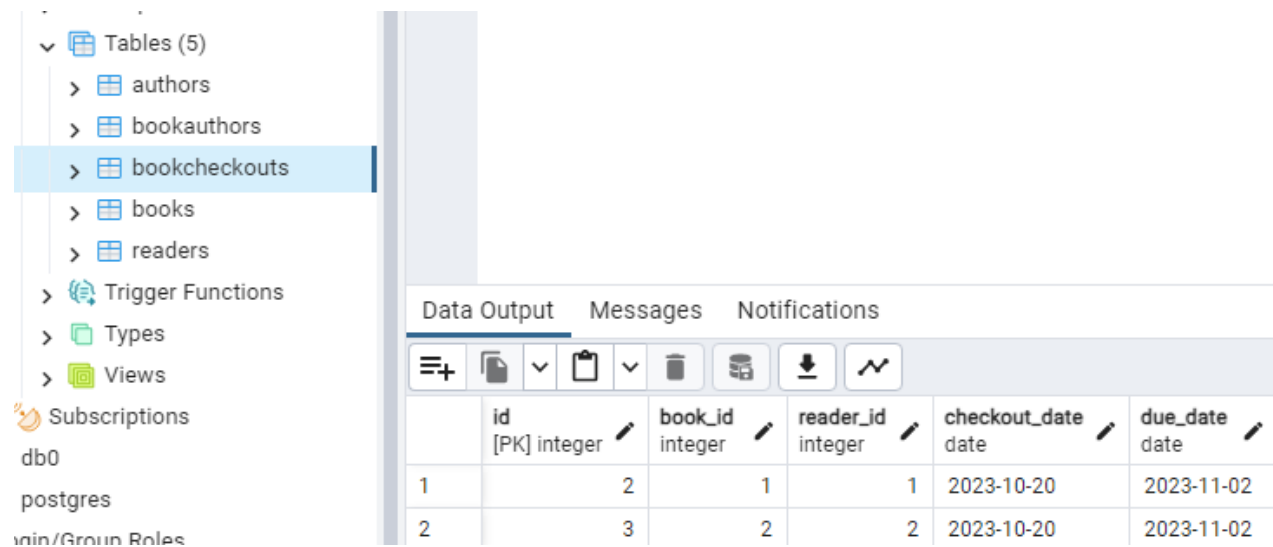
	book_id integer	author_id integer
1	1	1
2	2	2

# Таблица books, связь: book\_id передаёт данные в bookcheckouts



The screenshot shows a database management interface. On the left, a sidebar lists database objects: Tables (5), authors, bookauthors, bookcheckouts, books (selected), readers, Trigger Functions, Types, Views, Subscriptions, db0, postgres, and a partially visible 'in/Group Roles'. The main panel displays the 'books' table structure and data. The table has columns: id [PK] integer, title character varying (100), isbn integer, publication\_year date, and genre text. The data output shows two rows.

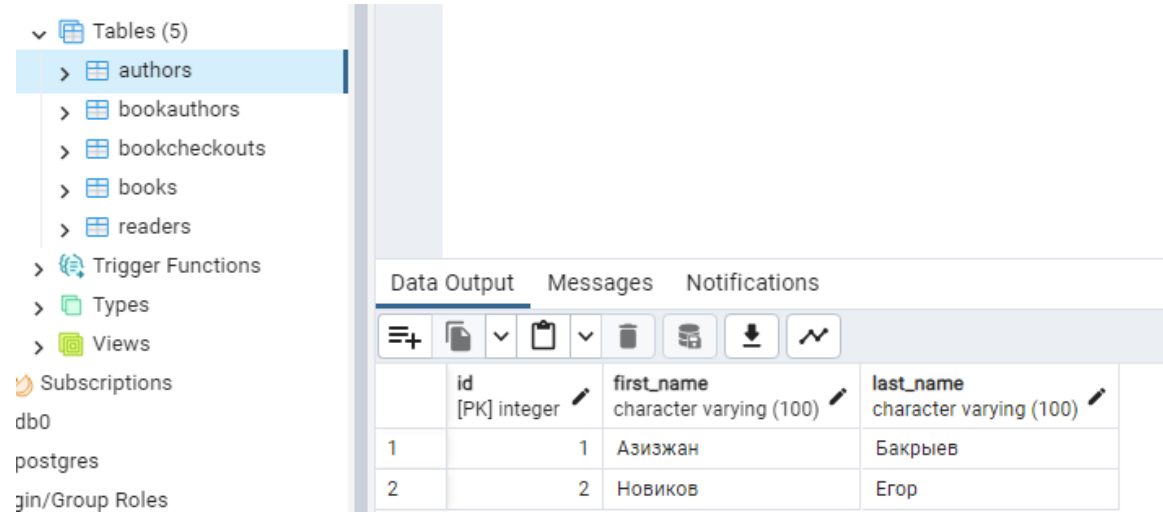
	id [PK] integer	title character varying (100)	isbn integer	publication_year date	genre text
1	1	Новая жизнь	29566653	2000-01-01	Лирика
2	2	Сетевая безопасность	101010101	1995-05-15	Информационная



The screenshot shows the same database management interface, but with the 'bookcheckouts' table selected in the sidebar. The main panel displays the 'bookcheckouts' table structure and data. The table has columns: id [PK] integer, book\_id integer, reader\_id integer, checkout\_date date, and due\_date date. The data output shows two rows.

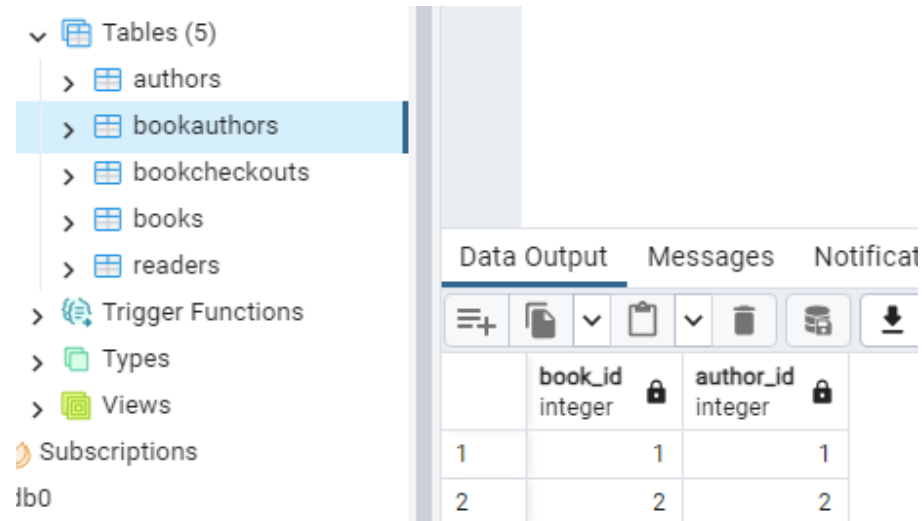
	id [PK] integer	book_id integer	reader_id integer	checkout_date date	due_date date
1	2	1	1	2023-10-20	2023-11-02
2	3	2	2	2023-10-20	2023-11-02

# Таблица authors, связь: author\_id передаёт данные в bookauthors



The screenshot shows a database management interface. On the left, a tree view lists database objects: Tables (5), Trigger Functions, Types, Views, Subscriptions, db0, postgres, and gin/Group Roles. The 'Tables (5)' folder is expanded, and the 'authors' table is selected. The main pane displays the 'Data Output' tab for the 'authors' table. The table structure is shown with columns: id (PK) integer, first\_name character varying (100), and last\_name character varying (100). Below the structure, two rows of data are displayed.

	id [PK] integer	first_name character varying (100)	last_name character varying (100)
1	1	Азизжан	Бакриев
2	2	Новиков	Ероп



The screenshot shows the same database management interface, but with the 'bookauthors' table selected. The main pane displays the 'Data Output' tab for the 'bookauthors' table. The table structure is shown with columns: book\_id integer and author\_id integer. Below the structure, two rows of data are displayed.

	book_id integer	author_id integer
1	1	1
2	2	2

Таблица readers,  
связь: reader\_id передаёт данные в bookcheckouts

1.3 Sequences

Tables (5)

- authors
- bookauthors
- bookcheckouts
- books
- readers**
- Trigger Functions
- Types

	id [PK] integer	first_name character varying (100)	last_name character varying (100)	email character varying (100)	phone integer	address character varying (100)
1	1	Новиков	Егор	novik_egor@mail.ru	777777777	Almaty City
2	2	Ильяс	Ибрагимов	ilyasibragimov@mail.ru	777777777	Almaty City

Tables (5)

- authors
- bookauthors
- bookcheckouts**
- books
- readers
- Trigger Functions
- Types

	id [PK] integer	book_id integer	reader_id integer	checkout_date date	due_date date
1	2	1	1	2023-10-20	2023-11-02
2	3	2	2	2023-10-20	2023-11-02