

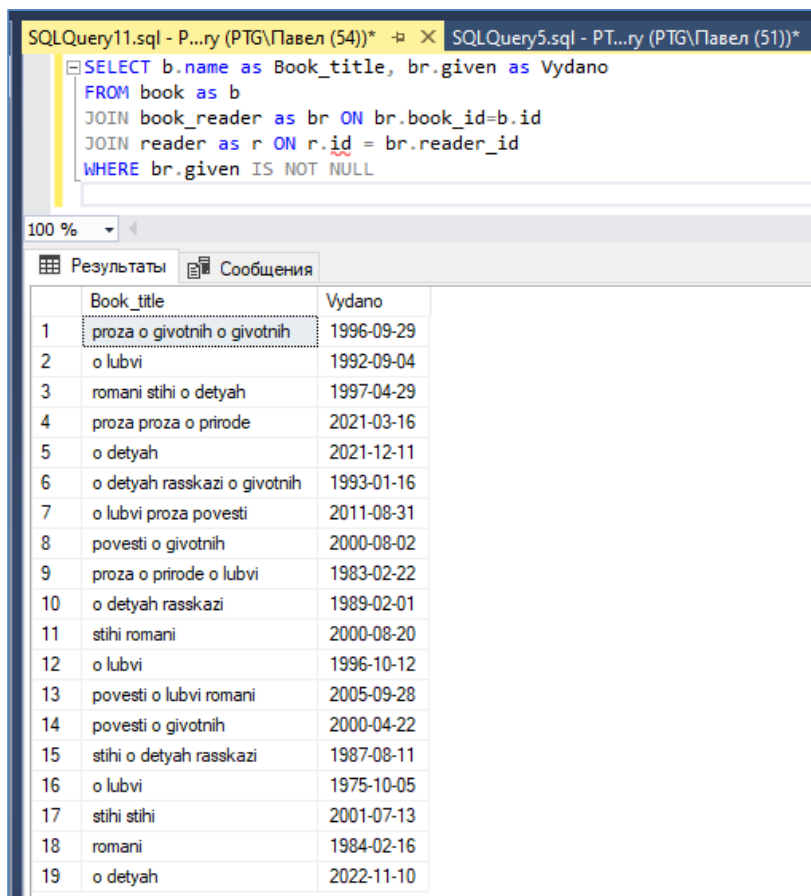
Домашнее задание №9

- Вывести все книги находящиеся сейчас на руках
- Вывести все книги взятые до 2022-08-11
- Вывести книги автора Ivanov взятые более 30 дней назад (смотрите DATEDIFF и GETDATE)
- Вывести самую старую книгу выданную в библиотеке
- Вывести всех читателей взявших книги издательства AST

Решение

1) Вывести все книги, находящиеся сейчас на руках

```
SELECT b.name
FROM book as b
JOIN book_reader as br ON br.book_id=b.id
JOIN reader as r ON r.id = br.reader_id
WHERE br.given IS NOT NULL;
```



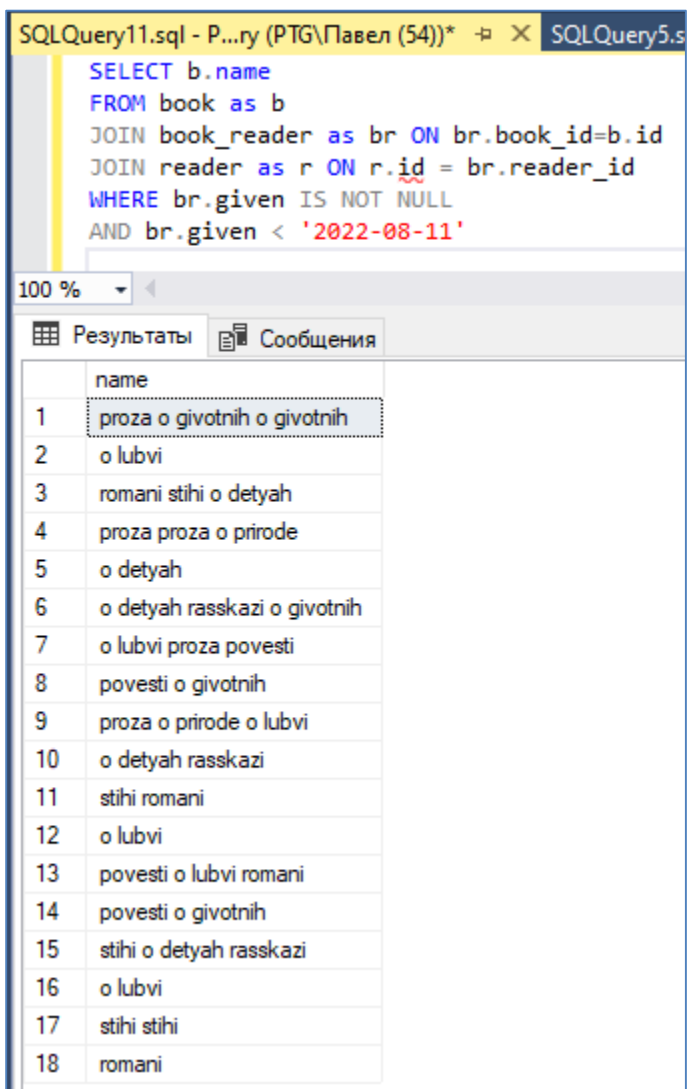
The screenshot shows a SQL query editor with two tabs: 'SQLQuery11.sql - P...ry (PTG\Павел (54))*' and 'SQLQuery5.sql - PT...ry (PTG\Павел (51))*'. The query in the first tab is the same as the one in the text block above. Below the query editor, there is a 'Результаты' (Results) tab showing a table with 19 rows. The table has two columns: 'Book_title' and 'Vydano'. The first row is highlighted with a dashed border.

	Book_title	Vydano
1	proza o givotnih o givotnih	1996-09-29
2	o lubvi	1992-09-04
3	romani stihy o detyah	1997-04-29
4	proza proza o prirode	2021-03-16
5	o detyah	2021-12-11
6	o detyah rasskazy o givotnih	1993-01-16
7	o lubvi proza povesti	2011-08-31
8	povesti o givotnih	2000-08-02
9	proza o prirode o lubvi	1983-02-22
10	o detyah rasskazy	1989-02-01
11	stihy romani	2000-08-20
12	o lubvi	1996-10-12
13	povesti o lubvi romani	2005-09-28
14	povesti o givotnih	2000-04-22
15	stihy o detyah rasskazy	1987-08-11
16	o lubvi	1975-10-05
17	stihy stihy	2001-07-13
18	romani	1984-02-16
19	o detyah	2022-11-10

P.S. Поле given может быть в состоянии NULL, поэтому сравнению с ним

2) Вывести все книги, взятые до 2022-08-11

```
SELECT b.name  
FROM book as b  
JOIN book_reader as br ON br.book_id=b.id  
JOIN reader as r ON r.id = br.reader_id  
WHERE br.given IS NOT NULL  
AND br.given < '2022-08-11'
```

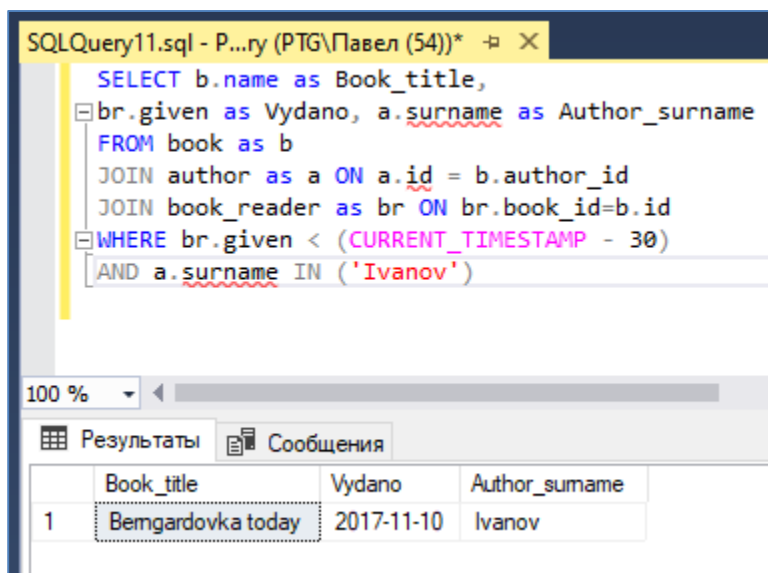


The screenshot shows a SQL query execution window with the following tabs: "SQLQuery11.sql - P...ry (PTG\Павел (54))*" and "SQLQuery5.s". The query is displayed in the editor, and the results are shown in a table below. The table has a single column named "name" and 18 rows of data. The first row is highlighted with a dotted border.

	name
1	proza o givotnih o givotnih
2	o lubvi
3	romani stihy o detyah
4	proza proza o prirode
5	o detyah
6	o detyah rasskazy o givotnih
7	o lubvi proza povesti
8	povesti o givotnih
9	proza o prirode o lubvi
10	o detyah rasskazy
11	stihy romani
12	o lubvi
13	povesti o lubvi romani
14	povesti o givotnih
15	stihy o detyah rasskazy
16	o lubvi
17	stihy stihy
18	romani

3) Вывести книги автора *Ivanov* взятые более 30 дней назад (смотрите *DATEDIFF* и *GETDATE*)

```
SELECT b.name as Book_title,  
br.given as Vydano, a.surname as Author_surname  
FROM book as b  
JOIN author as a ON a.id = b.author_id  
JOIN book_reader as br ON br.book_id=b.id  
WHERE br.given < (CURRENT_TIMESTAMP - 30)  
AND a.surname IN ('Ivanov');
```



Или

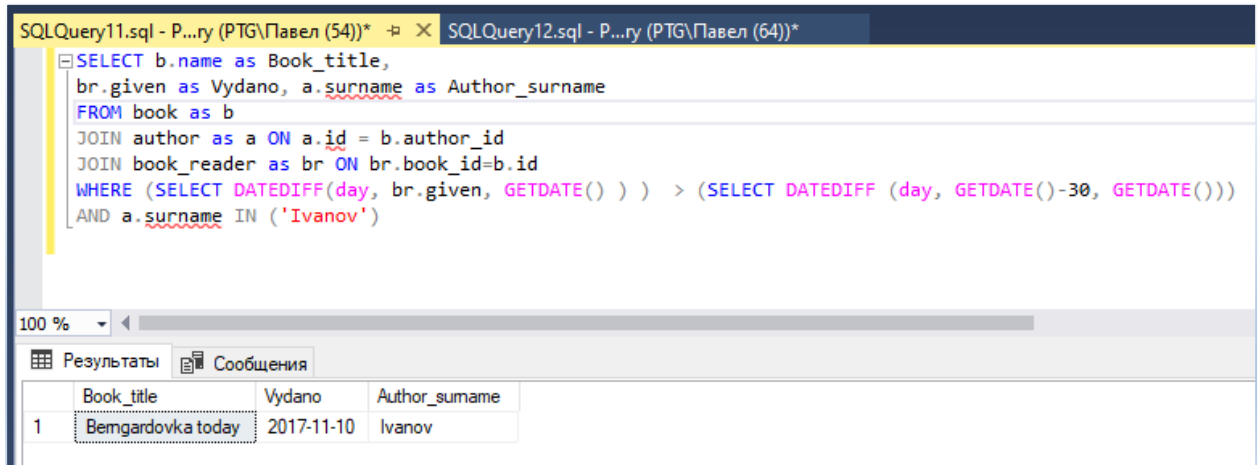
```
SELECT b.name as Book_title,  
br.given as Vydano, a.surname as Author_surname  
FROM book as b  
JOIN author as a ON a.id = b.author_id  
JOIN book_reader as br ON br.book_id=b.id  
WHERE br.given < (GETDATE() - 30)  
AND a.surname IN ('Ivanov');
```

Или

```

SELECT b.name as Book_title,
br.given as Vydano, a.surname as Author_surname
FROM book as b
JOIN author as a ON a.id = b.author_id
JOIN book_reader as br ON br.book_id=b.id
WHERE (SELECT DATEDIFF(day, br.given, GETDATE() ) ) >
(SELECT DATEDIFF (day, GETDATE()-30, GETDATE()))
AND a.surname IN ('Ivanov');

```

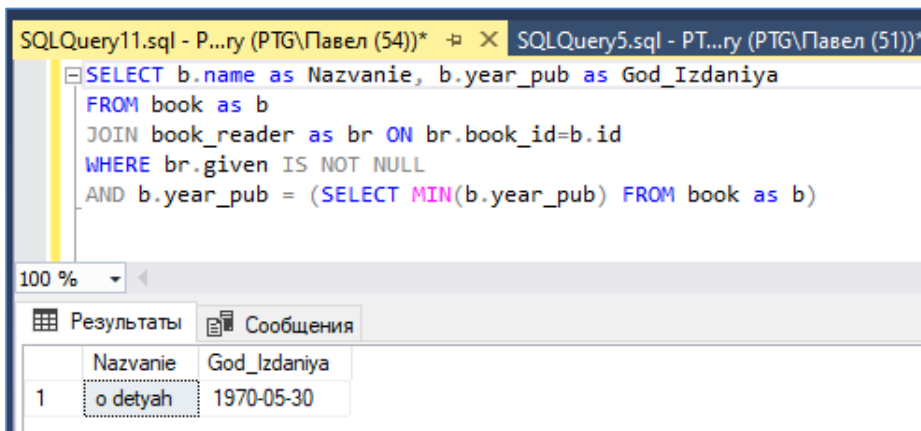


4) Вывести самую старую книгу, выданную в библиотеке

```

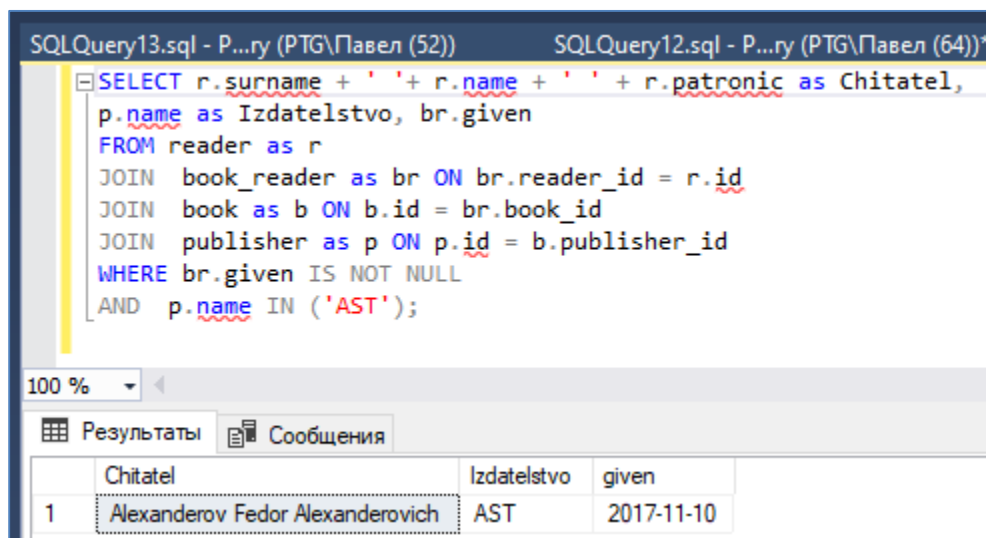
SELECT b.name as Nazvanie, b.year_pub as God_Izdaiya
FROM book as b
JOIN book_reader as br ON br.book_id=b.id
WHERE br.given IS NOT NULL
AND b.year_pub = (SELECT MIN(b.year_pub) FROM book as b);

```



5) Вывести всех читателей, взявших книги издательства AST

```
SELECT r.surname + ' ' + r.name + ' ' + r.patronic as  
Chitatel, p.name as Izdatelstvo, br.given  
FROM reader as r  
JOIN book_reader as br ON br.reader_id = r.id  
JOIN book as b ON b.id = br.book_id  
JOIN publisher as p ON p.id = b.publisher_id  
WHERE br.given IS NOT NULL  
AND p.name IN ('AST');
```



The screenshot shows a SQL Server Enterprise Manager window with two tabs: 'SQLQuery13.sql - P...ry (PTG\Павел (52))' and 'SQLQuery12.sql - P...ry (PTG\Павел (64))*'. The active tab displays the following SQL query:

```
SELECT r.surname + ' ' + r.name + ' ' + r.patronic as Chitatel,  
p.name as Izdatelstvo, br.given  
FROM reader as r  
JOIN book_reader as br ON br.reader_id = r.id  
JOIN book as b ON b.id = br.book_id  
JOIN publisher as p ON p.id = b.publisher_id  
WHERE br.given IS NOT NULL  
AND p.name IN ('AST');
```

Below the query editor, the 'Results' tab is selected, showing a table with the following data:

	Chitatel	Izdatelstvo	given
1	Alexanderov Fedor Alexandrovich	AST	2017-11-10

База данных Library и её содержимое

```
CREATE database Library
```

```
CREATE table author (id INT NOT NULL IDENTITY(1,1) PRIMARY KEY,  
surname nvarchar(100) NOT NULL,  
name nvarchar(100) NOT NULL,  
patronic nvarchar(100) NOT NULL);
```

```
CREATE table publisher (id INT NOT NULL IDENTITY(1,1) PRIMARY KEY,  
name nvarchar(100) DEFAULT 'Свеча',  
city nvarchar(100) DEFAULT 'Berngardovka');
```

```
CREATE table book (id INT NOT NULL IDENTITY(1,1) PRIMARY KEY,  
author_id INT NOT NULL FOREIGN KEY REFERENCES author(id),  
name nvarchar(100) NOT NULL,  
publisher_id INT NOT NULL FOREIGN KEY REFERENCES publisher(id),  
year_pub date NOT NULL,  
amount INT DEFAULT 0);
```

```
CREATE table reader (id INT NOT NULL IDENTITY(1,1) PRIMARY KEY,  
Surname nvarchar(100) NOT NULL,  
name nvarchar(100) NOT NULL,  
patronic nvarchar(100) NOT NULL);
```

```
CREATE table book_reader ( id INT IDENTITY(1,1) PRIMARY KEY,  
book_id INT NOT NULL FOREIGN KEY (book_id) REFERENCES book(id),  
reader_id INT NOT NULL FOREIGN KEY (reader_id) REFERENCES reader(id),  
given date DEFAULT NULL);
```

```

INSERT into reader (Surname,Name,Patronic) VALUES
('Alexanderenko','Ivan','Fedorovich'),
('Alexanderov','Fedor','Alexanderovich'),
('Glebin','Daria','Maximovna'),
('Alexanderushkin','Zinaida','Petrovna'),
('Glebenko','Sofia','Glebovna'),
('Petrushkin','Zinaida','Glebovna'),
('Fedorov','Daria','Ivanovna'),
('Ivanenko','Maxim','Glebovich'),
('Fedorenko','Ekaterina','Borisovna'),
('Fedorushkin','Boris','Petrovich'),
('Petrushkin','Boris','Ivanovich'),
('Glebov','Alexander','Borisovich'),
('Alexanderushkin','Maxim','Petrovich'),
('Petrushkin','Ekaterina','Fedorovna'),
('Petrin','Gleb','Alexanderovich'),
('Alexanderushkin','Maxim','Alexanderovich'),
('Borisin','Fedor','Fedorovich'),
('Ivanenko','Maxim','Fedorovich'),
('Fedorushkin','Maxim','Borisovich'),
('Ivanenko','Anna','Fedorovna'),
('Ivanov','Sofia','Maximovna'),
('Alexanderov','Maxim','Fedorovich'),
('Petrenko','Petr','Petrovich'),
('Glebin','Daria','Ivanovna'),
('Fedorenko','Elena','Petrovna'),
('Petrenko','Anna','Alexanderovna'),
('Glebov','Boris','Borisovich'),
('Alexanderov','Alexander','Glebovich'),
('Glebenko','Petr','Borisovich'),
('Petrin','Elena','Glebovna'),
('Alexanderin','Anna','Borisovna'),
('Petrov','Sofia','Alexanderovna'),
('Fedorov','Maxim','Ivanovich'),
('Alexanderenko','Ivan','Ivanovich'),
('Petrenko','Ekaterina','Borisovna'),
('Fedorov','Elena','Glebovna'),
('Fedorenko','Elena','Fedorovna'),
('Ivanenko','Anna','Fedorovna'),
('Fedorov','Petr','Alexanderovich'),
('Fedorushkin','Ekaterina','Maximovna'),
('Alexanderin','Ivan','Ivanovich'),
('Maximov','Anna','Borisovna'),
('Ivanov','Daria','Maximovna'),
('Petrov','Petr','Fedorovich'),
('Alexanderenko','Daria','Alexanderovna'),
('Fedorov','Fedor','Ivanovich'),
('Glebenko','Elena','Glebovna'),
('Fedorenko','Velria','Petrovna'),
('Ivanushkin','Sofia','Ivanovna'),
('Fedorenko','Daria','Maximovna'),
('Alexanderin','Velria','Alexanderovna'),
('Ivanushkin','Ekaterina','Alexanderovna'),
('Ivanin','Ivan','Borisovich'),

```


('Borisov', 'Elena', 'Ivanovna'),
('Borisin', 'Elena', 'Alexanderovna'),
('Ivanin', 'Petr', 'Ivanovich'),
('Glebov', 'Maxim', 'Glebovich'),
('Ivanov', 'Anna', 'Alexanderovna'),
('Fedorushkin', 'Sofia', 'Borisovna'),
('Fedorushkin', 'Fedor', 'Petrovich'),
('Alexanderushkin', 'Velria', 'Fedorovna'),
('Borisenko', 'Daria', 'Ivanovna'),
('Glebov', 'Velria', 'Alexanderovna'),
('Borisenko', 'Ivan', 'Glebovich'),
('Petrenko', 'Ivan', 'Fedorovich'),
('Maximushkin', 'Anna', 'Petrovna'),
('Glebov', 'Fedor', 'Fedorovich'),
('Fedorov', 'Alexander', 'Alexanderovich'),
('Maximov', 'Velria', 'Glebovna'),
('Borisov', 'Daria', 'Borisovna'),
('Glebin', 'Gleb', 'Petrovich'),
('Borisushkin', 'Ivan', 'Glebovich'),
('Borisenko', 'Boris', 'Borisovich'),
('Maximenko', 'Maxim', 'Maximovich'),
('Maximin', 'Maxim', 'Fedorovich'),
('Alexanderushkin', 'Petr', 'Ivanovich'),
('Maximenko', 'Maxim', 'Glebovich'),
('Maximenko', 'Petr', 'Alexanderovich'),
('Ivanin', 'Velria', 'Borisovna'),
('Petrin', 'Alexander', 'Maximovich'),
('Glebin', 'Gleb', 'Glebovich'),
('Ivanov', 'Gleb', 'Ivanovich'),
('Maximushkin', 'Boris', 'Glebovich'),
('Fedorushkin', 'Boris', 'Fedorovich'),
('Alexanderushkin', 'Gleb', 'Glebovich'),
('Petrenko', 'Boris', 'Borisovich'),
('Ivanushkin', 'Petr', 'Fedorovich'),
('Ivanushkin', 'Ekaterina', 'Petrovna'),
('Alexanderenko', 'Ekaterina', 'Maximovna'),
('Petrin', 'Gleb', 'Maximovich'),
('Alexanderin', 'Maxim', 'Alexanderovich'),
('Ivanov', 'Sofia', 'Glebovna'),
('Alexanderov', 'Daria', 'Petrovna'),
('Maximushkin', 'Velria', 'Fedorovna'),
('Ivanushkin', 'Fedor', 'Maximovich'),
('Glebin', 'Gleb', 'Glebovich'),
('Fedorushkin', 'Ekaterina', 'Maximovna'),
('Ivanin', 'Daria', 'Glebovna'),
('Alexanderov', 'Elena', 'Maximovna'),
('Petrushkin', 'Petr', 'Glebovich');

INSERT into **publisher** (City,name) VALUES

('Kazan','Kniga'),
('Vorkuta','Mir'),
('Kazan','Detstvo'),
('Kazan','Detstvo'),
('Saint-Petesburg','Svecha'),
('Saint-Petesburg','Prosveshenie'),
('Samara','Kniga'),
('Saint-Petesburg','Kniga'),
('Samara','Svecha'),
('Omsk','Mir'),
('Moscow','Mir'),
('Vorkuta','Svecha'),
('Samara','Prosveshenie'),
('Moscow','Mir'),
('Vorkuta','Mir'),
('Omsk','Detstvo'),
('Moscow','Prosveshenie'),
('Samara','Svecha'),
('Perm','Kniga'),
('Perm','Kniga');

INSERT into **author** (Surname,Name,Patronic) VALUES

('Glebin','Petr','Glebovich'),
('Ivanov','Elena','Fedorovna'),
('Ivanenko','Daria','Borisovna'),
('Borisenko','Boris','Ivanovich'),
('Glebin','Gleb','Petrovich'),
('Alexanderov','Maxim','Maximovich'),
('Glebushkin','Elena','Glebovna'),
('Borisin','Fedor','Petrovich'),
('Maximin','Anna','Borisovna'),
('Alexanderushkin','Ivan','Alexanderovich'),
('Ivanushkin','Boris','Maximovich'),
('Maximov','Ekaterina','Glebovna'),
('Alexanderenko','Maxim','Maximovich'),
('Borisushkin','Petr','Glebovich'),
('Glebushkin','Anna','Ivanovna'),
('Alexanderin','Anna','Fedorovna'),
('Ivanov','Daria','Maximovna'),
('Ivanenko','Ekaterina','Petrovna'),
('Maximenko','Sofia','Alexanderovna'),
('Fedorin','Ekaterina','Maximovna'),
('Ivanenko','Ekaterina','Petrovna'),
('Ivanenko','Ekaterina','Alexanderovna'),
('Alexanderin','Velria','Petrovna'),
('Maximin','Maxim','Petrovich'),
('Fedorenko','Daria','Alexanderovna'),
('Fedorushkin','Sofia','Fedorovna'),
('Alexanderushkin','Zinaida','Petrovna'),

('Ivanushkin','Velria','Maximovna'),
('Maximenko','Gleb','Alexanderovich'),
('Petrov','Maxim','Ivanovich'),
('Petrushkin','Anna','Maximovna'),
('Ivanenko','Anna','Borisovna'),
('Petrenko','Gleb','Fedorovich'),
('Glebenko','Gleb','Glebovich'),
('Glebov','Sofia','Glebovna'),
('Borisushkin','Sofia','Maximovna'),
('Fedorov','Daria','Alexanderovna'),
('Maximin','Elena','Ivanovna'),
('Alexanderin','Ekaterina','Petrovna'),
('Borisov','Fedor','Fedorovich'),
('Fedorov','Alexander','Glebovich'),
('Borisenko','Elena','Maximovna'),
('Glebushkin','Petr','Glebovich'),
('Ivanin','Zinaida','Petrovna'),
('Maximin','Alexander','Glebovich'),
('Fedorov','Gleb','Glebovich'),
('Ivanushkin','Gleb','Glebovich'),
('Glebin','Gleb','Petrovich'),
('Ivanin','Maxim','Alexanderovich'),
('Alexanderov','Fedor','Maximovich'),
('Petrenko','Ekaterina','Alexanderovna'),
('Fedorin','Maxim','Borisovich'),
('Alexanderin','Daria','Ivanovna'),
('Maximenko','Maxim','Ivanovich'),
('Maximov','Sofia','Ivanovna'),
('Petrov','Fedor','Alexanderovich'),
('Borisenko','Daria','Maximovna'),
('Glebushkin','Alexander','Fedorovich'),
('Alexanderov','Alexander','Borisovich'),
('Glebenko','Sofia','Borisovna'),
('Ivanin','Fedor','Fedorovich'),
('Glebushkin','Ekaterina','Fedorovna'),
('Petrenko','Elena','Borisovna'),
('Glebin','Ivan','Ivanovich'),
('Borisushkin','Ivan','Fedorovich'),
('Borisov','Alexander','Ivanovich'),
('Maximushkin','Sofia','Fedorovna'),
('Fedorov','Maxim','Borisovich'),
('Ivanov','Fedor','Ivanovich'),
('Petrov','Zinaida','Fedorovna'),
('Alexanderushkin','Zinaida','Maximovna'),
('Alexanderenko','Ekaterina','Maximovna'),
('Petrov','Fedor','Petrovich'),
('Maximov','Boris','Petrovich'),
('Petrushkin','Zinaida','Borisovna'),
('Ivanenko','Sofia','Alexanderovna'),
('Ivanenko','Ekaterina','Maximovna'),
('Maximushkin','Elena','Alexanderovna'),

('Fedorenko','Zinaida','Ivanovna'),
 ('Glebushkin','Alexander','Petrovich'),
 ('Ivanushkin','Elena','Ivanovna'),
 ('Maximin','Ivan','Ivanovich'),
 ('Maximenko','Alexander','Petrovich'),
 ('Borisin','Sofia','Glebovna'),
 ('Ivanenko','Anna','Borisovna'),
 ('Fedorov','Gleb','Petrovich'),
 ('Petrushkin','Fedor','Glebovich'),
 ('Maximov','Maxim','Glebovich'),
 ('Ivanin','Velria','Ivanovna'),
 ('Glebushkin','Zinaida','Ivanovna'),
 ('Ivanushkin','Alexander','Maximovich'),
 ('Borisenko','Sofia','Alexanderovna'),
 ('Alexanderenko','Fedor','Petrovich'),
 ('Petrin','Boris','Alexanderovich'),
 ('Glebin','Zinaida','Maximovna'),
 ('Ivanushkin','Fedor','Alexanderovich'),
 ('Borisenko','Anna','Petrovna'),
 ('Petrin','Sofia','Borisovna'),
 ('Alexanderenko','Ekaterina','Borisovna'),
 ('Fedorushkin','Gleb','Ivanovich');

INSERT into **book**(name,amount, author_id,publisher_id,year_pub) VALUES

('o lubvi',1,92,6,'19860331'),
 ('proza o givotnih o givotnih',8,93,16,'20160416'),
 ('romani stihy o detyah',8,27,18,'20180327'),
 ('proza proza o prirode',2,73,5,'20040627'),
 ('o detyah',9,66,10,'19700530'),
 ('o detyah rasskazy o givotnih',6,74,11,'19790408'),
 ('o lubvi proza povesti',3,43,20,'20100818'),
 ('povesti o givotnih',9,95,2,'19791030'),
 ('proza o prirode o lubvi',1,66,12,'19951016'),
 ('o detyah rasskazy',8,87,13,'19830427'),
 ('stihy romani',7,58,9,'19790530'),
 ('o lubvi',5,33,2,'20030531'),
 ('povesti o lubvi romani',5,27,19,'19971007'),
 ('povesti o givotnih',6,20,19,'19730702'),
 ('stihy o detyah rasskazy',3,82,10,'19981202'),
 ('o lubvi',9,35,1,'19780330'),
 ('stihy stihy',3,87,10,'19770130'),
 ('romani',6,24,9,'20021127'),
 ('o detyah',2,16,13,'19820915');

```
INSERT into book_reader (book_id, reader_id, given) VALUES
(2, 4, '1996-09-29'),
(1, 58, '1992-09-04'),
(3, 22, '1997-04-29'),
(4, 84, '2021-03-16'),
(5, 25, '2021-12-11'),
(6, 3, '1993-01-16'),
(7, 23, '2011-08-31'),
(8, 15, '2000-08-02'),
(9, 16, '1983-02-22'),
(10, 18, '1989-02-01'),
(11, 24, '2000-08-20'),
(12, 1, '1996-10-12'),
(13, 17, '2005-09-28'),
(14, 11, '2000-04-22'),
(15, 7, '1987-08-11'),
(16, 10, '1975-10-05'),
(17, 27, '2001-07-13'),
(18, 9, '1984-02-16'),
(19, 19, '2022-11-10');
```