

## Задание 4.2: Простые запросы на SQL

Написать простые запросы на языке SQL, поддержание нормализации отношений.

```
SQLite

1 CREATE TABLE Book (
2   Author VARCHAR(255),
3   Title VARCHAR(255),
4   Publisher VARCHAR(255),
5   BookYear INT
6 );
```

```
SQLite

1 INSERT INTO Book (Author, Title, Publisher, BookYear) VALUES
2 ('Марк Твен', 'Том Сойер', 'Азбука', 2024),
3 ('Николай Носов', 'Незнайка', 'Махаон', 2019),
4 ('Алексей Толстой', 'Золотой Ключик', 'Эксмодетство', 2023),
5 ('Г.Х. Андерсон', 'Девочка со спичками', 'Речь', 2020);
```

```
SQLite

1 SELECT Author FROM Book;
```

! Author
Марк Твен
Николай Носов
Алексей Толстой
Г.Х. Андерсон

```
SQLite

1 SELECT DISTINCT Author FROM Book;
```

! Author
Марк Твен
Николай Носов
Алексей Толстой
Г.Х. Андерсон

SQLite

1 SELECT DISTINCT Author FROM Book ORDER BY Author;

Author

Алексей Толстой

Г.Х. Андерсон

Марк Твен

Николай Носов

SQLite

1 SELECT DISTINCT Author FROM Book ORDER BY Author DESC;

Author

Николай Носов

Марк Твен

Г.Х. Андерсон

Алексей Толстой

SQLite

1 SELECT DISTINCT Book.Author FROM Book ORDER BY Book.Author;

Author

Алексей Толстой

Г.Х. Андерсон

Марк Твен

Николай Носов

SQLite

1 SELECT DISTINCT Book.Author, Book.BookYear  
2 FROM Book  
3 ORDER BY Book.Author ASC, Book.BookYear DESC;

Author	BookYear
Алексей Толстой	2023
Г.Х. Андерсон	2020
Марк Твен	2024
Николай Носов	2019

SQLite

```
1 SELECT * FROM Book
2 ORDER BY Book.BookYear DESC, Book.Title ASC;
```

Author	Title	Publisher	BookYear
Марк Твен	Том Сойер	Азбука	2024
Алексей Толстой	Золотой Ключик	Эксмодетство	2023
Г.Х. Андерсон	Девочка со спичками	Речь	2020
Николай Носов	Незнайка	Махаон	2019

SQLite

```
1 SELECT *
2 FROM Book
3 WHERE Book.BookYear <= (SELECT AVG(BookYear) FROM Book);
```

Book - TABLE

demo - TABLE

author

BOOK:v

title

BOOK:v

publisher

BOOK:v

bookyear

BOOK:i

id

DEMO:i

name

DEMO:v

hint

DEMO:t

ALTER

AND

Author	Title	Publisher	BookYear
Николай Носов	Незнайка	Махаон	2019
Г.Х. Андерсон	Девочка со спичками	Речь	2020

SQLite

```
1 T Book.Author, Book.Title, Book.Publisher, Book.BookYear
2 Book
3 Book.BookYear BETWEEN 1997 AND 2001 AND Book.Publisher IN ('Азбука', 'Политехника');
```

Author	Title	Publisher	BookYear
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SQLite

```
1 SELECT Book.Author, Book.Title, Book.Publisher, Book.BookYear
2 FROM Book
3 WHERE (Book.BookYear BETWEEN 1997 AND 2001) AND ((Book.Publisher = 'Азбука') OR (Book.Publisher = 'Политехника'));
```

Author	Title	Publisher	BookYear
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SQLite

```
1 SELECT Title
2 FROM Book
3 WHERE Author LIKE 'Г%' OR BookYear > 1999 AND Publisher LIKE '%а'
4 ORDER BY Title DESC;
```

Title
Том Сойер
Девочка со спичками