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Installation of MariaDB and testing.

Installed Maria DB below:

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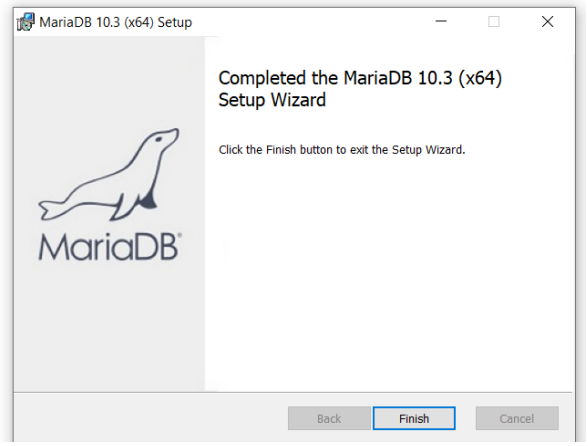

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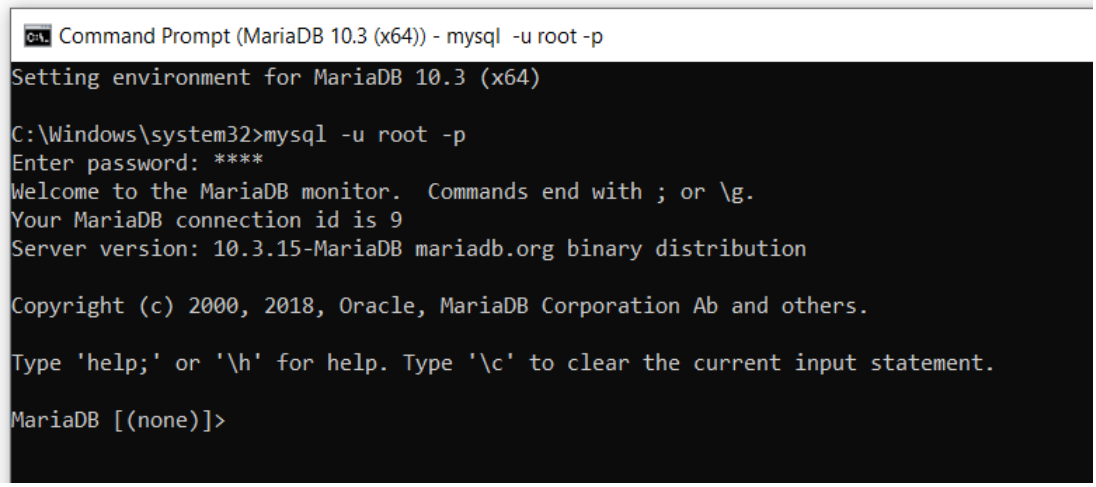

Creating and using a database called bookstore with commands:

```
CREATE DATABASE bookstore;
```

```
USE bookstore;
```

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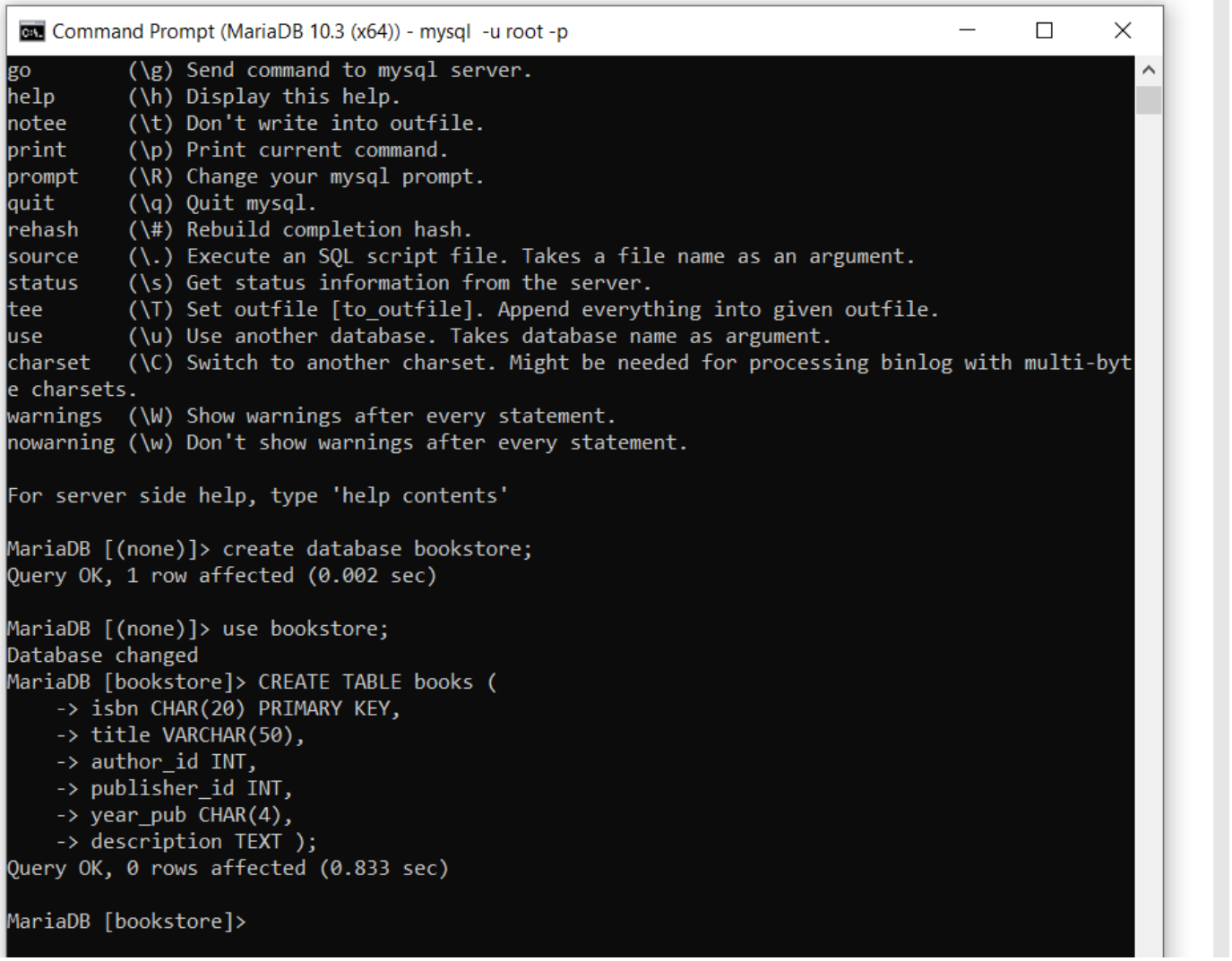

After that we create a table called books with next commands:

CREATE TABLE books (isbn CHAR(20) PRIMARY KEY,

title VARCHAR(50),

author_id INT,

publisher_id INT,

year_pub CHAR(4),

description TEXT);

Also, we create another table called Authors and then Describe Authors after creating the table.

CREATE TABLE authors

(author_id INT AUTO_INCREMENT PRIMARY KEY,

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name_last VARCHAR(50),

name_first VARCHAR(50),

country VARCHAR(50));

With the command describe books; and describe authors; we can see the table output below.

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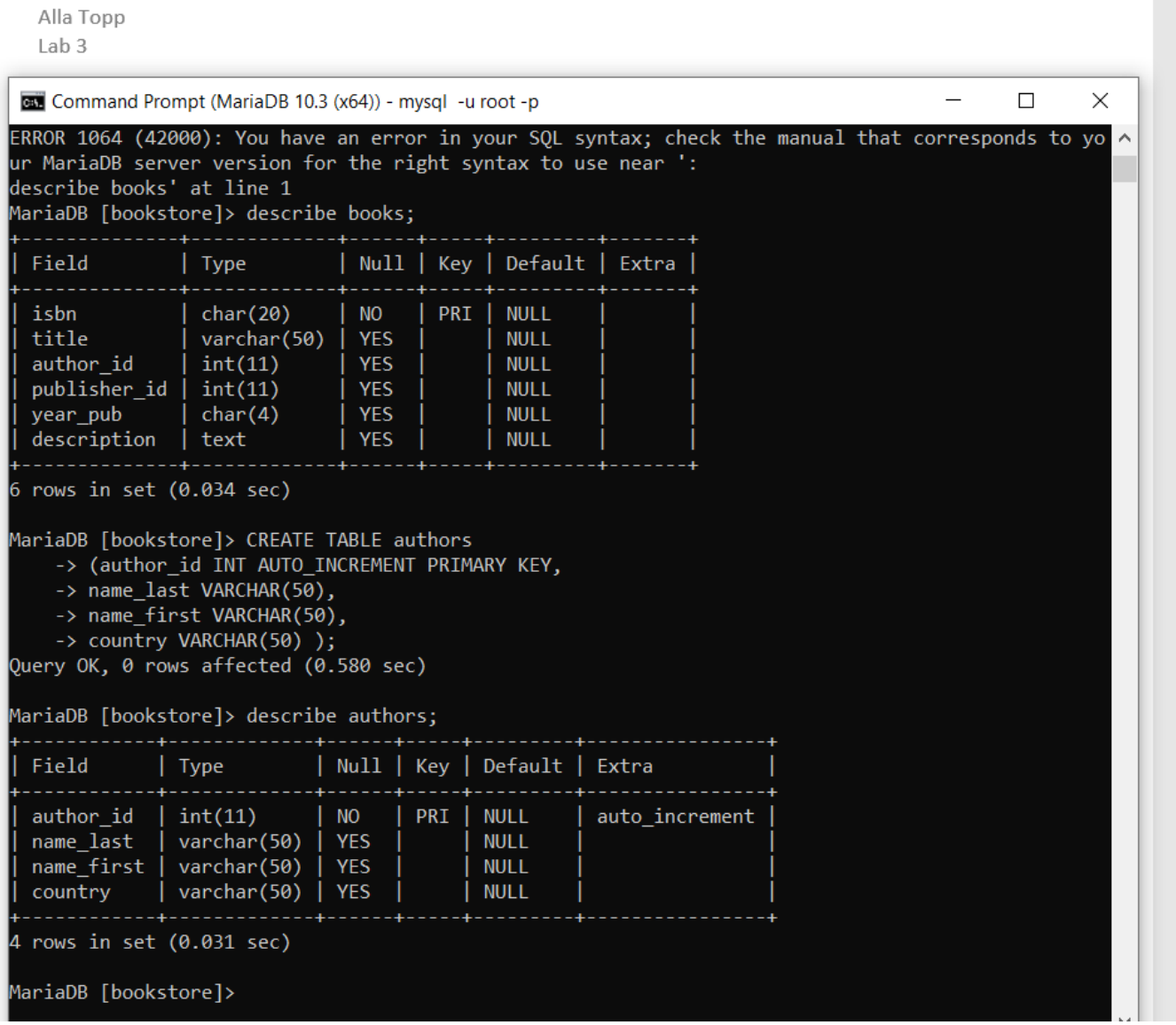

Below we can see how we insert some data into tables (authors, books). With command select * from books; and Select * from authors;

We can see the output table.

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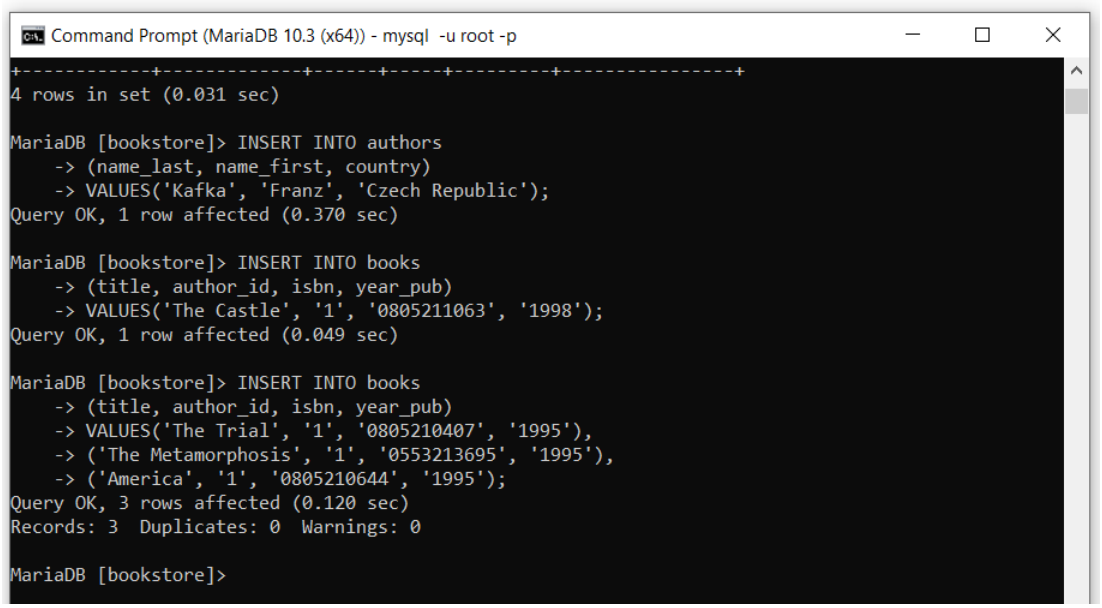

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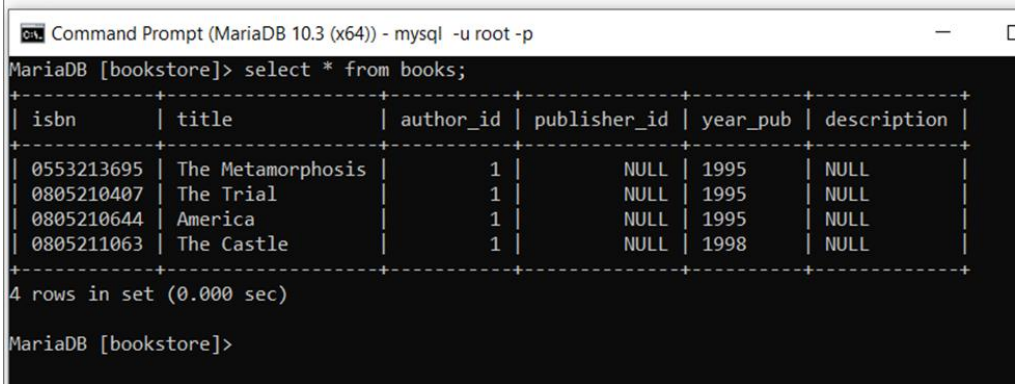

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LAB 3 PART 2

Create a table called publishers using the DDL with command shown on the print screen:

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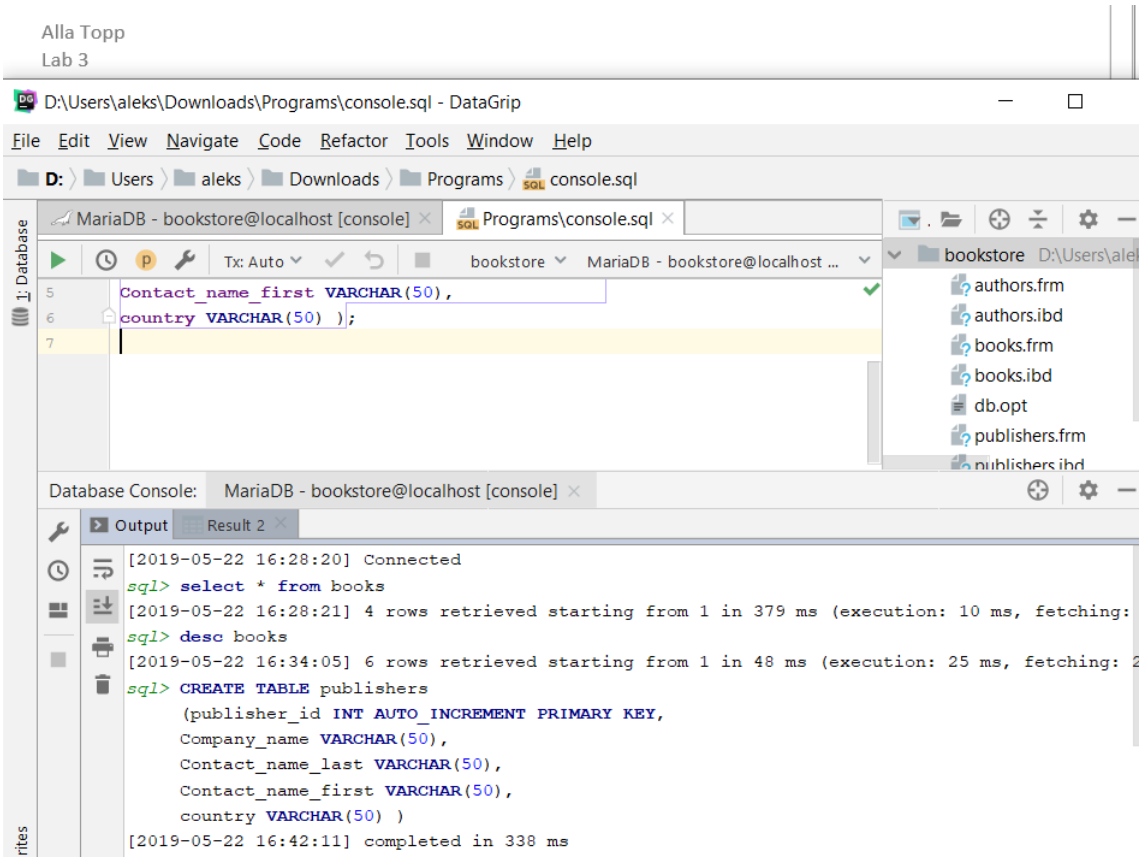
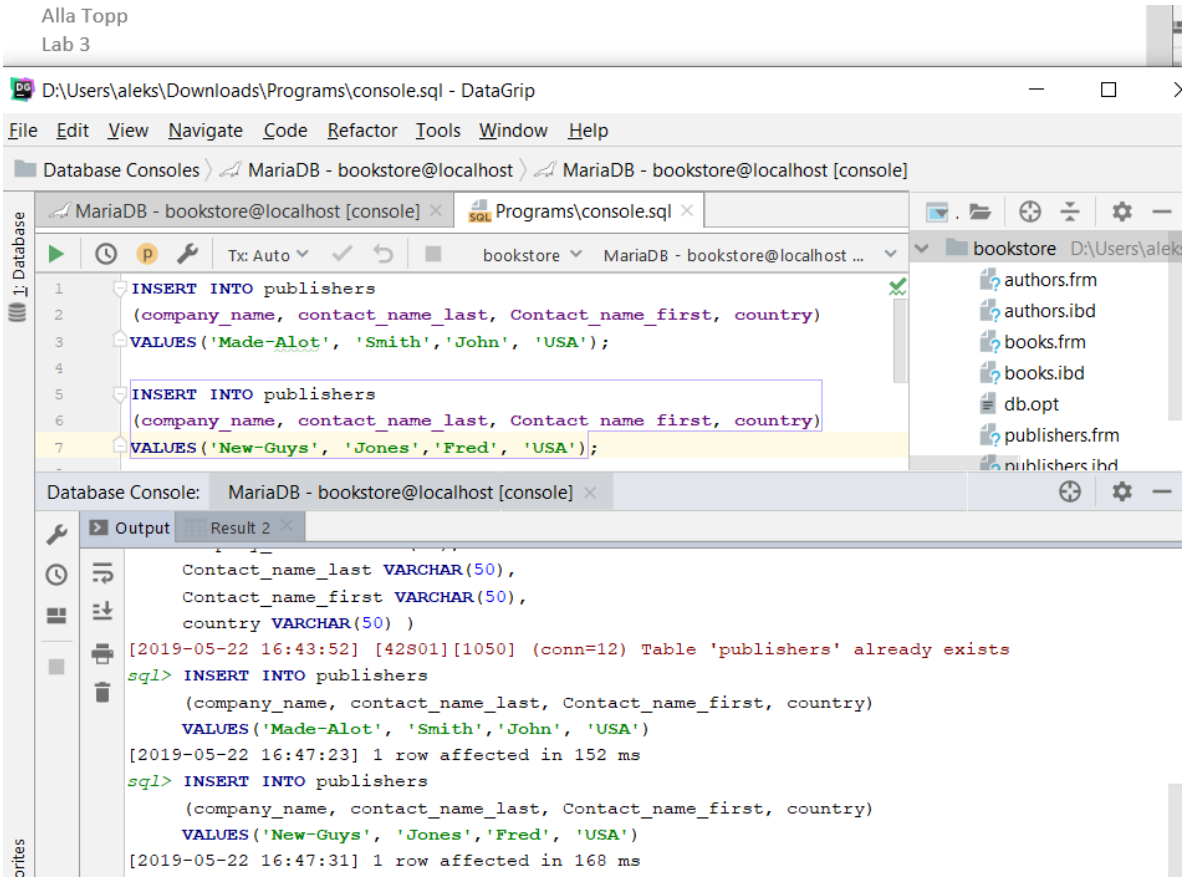


Then we insert a few new rows of data into the publisher table shown below:



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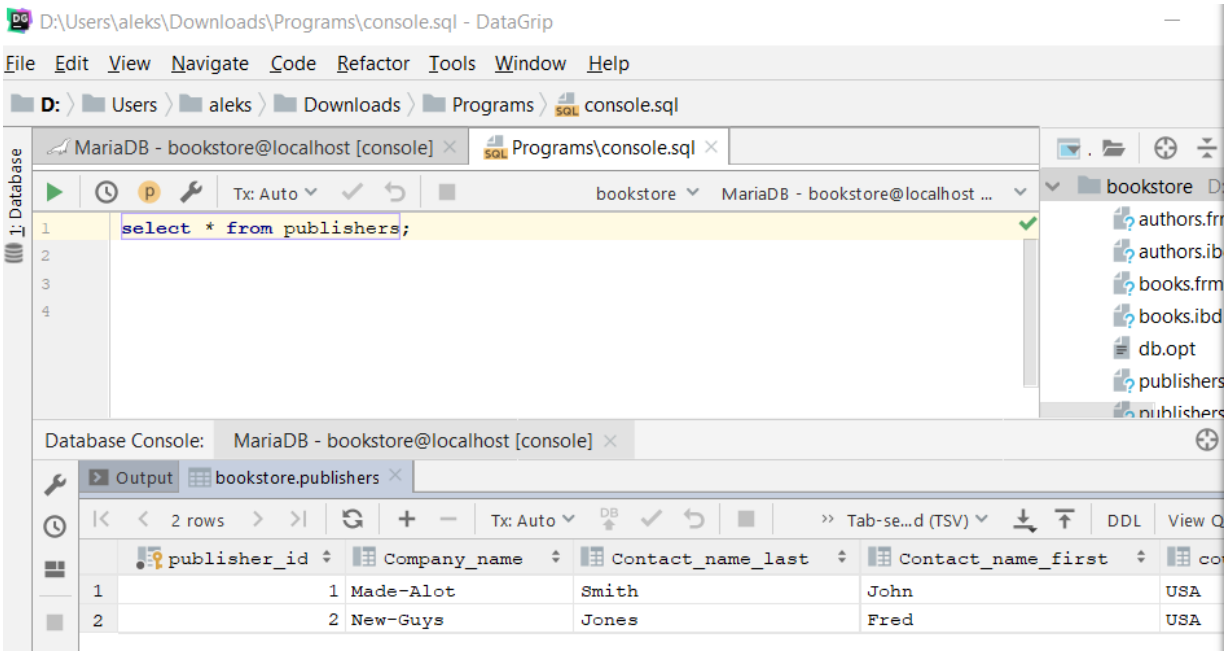
Added two publisher rows.



Here we enter the foreign key values directly into the book table rows under publisher_id:

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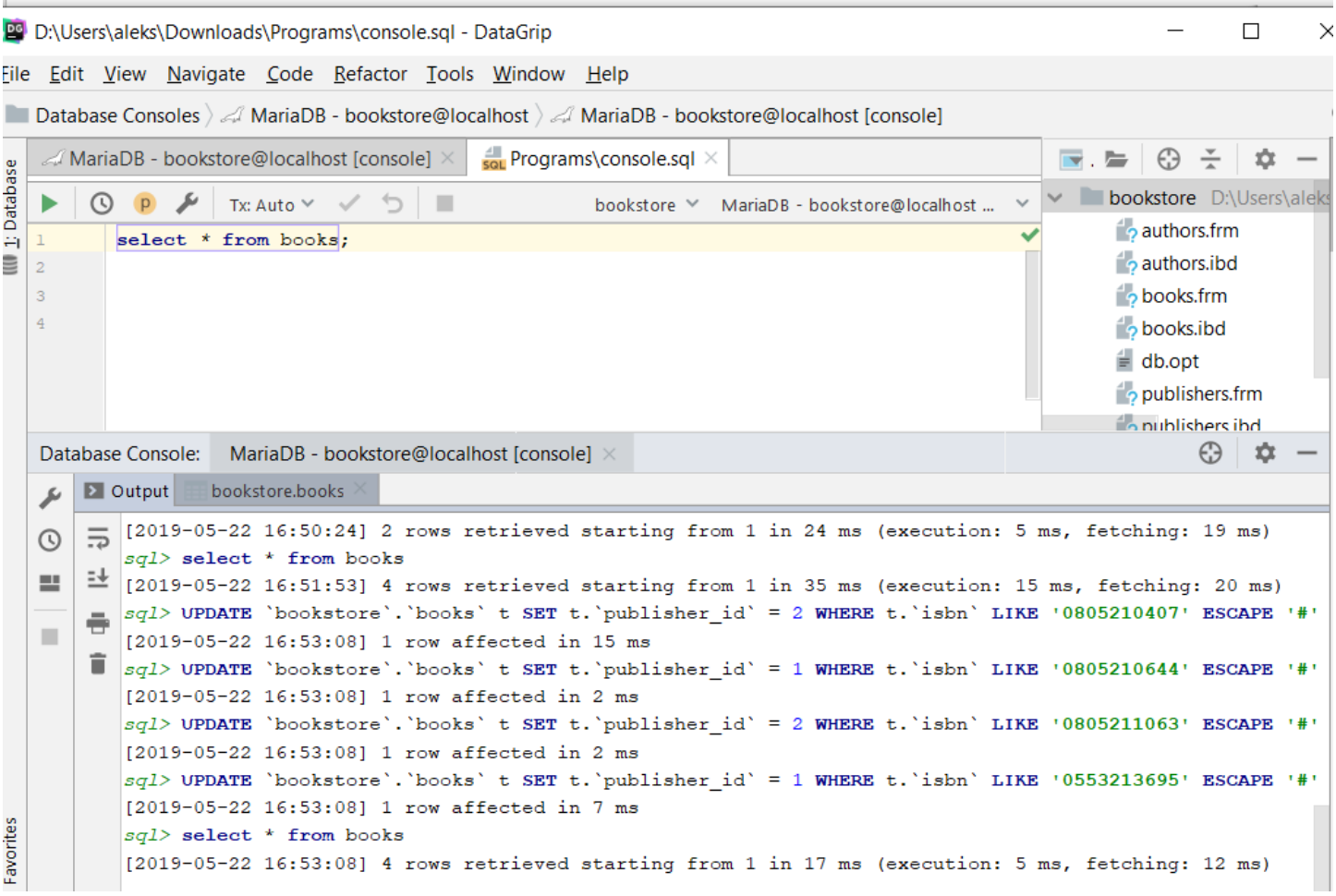

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You will now join the books table with the authors table and the publishers table.

Please modify this query to include the join to the publishers table. The expected results are shown below. Notice the column aliases in green that I added for Book, author, and publisher.

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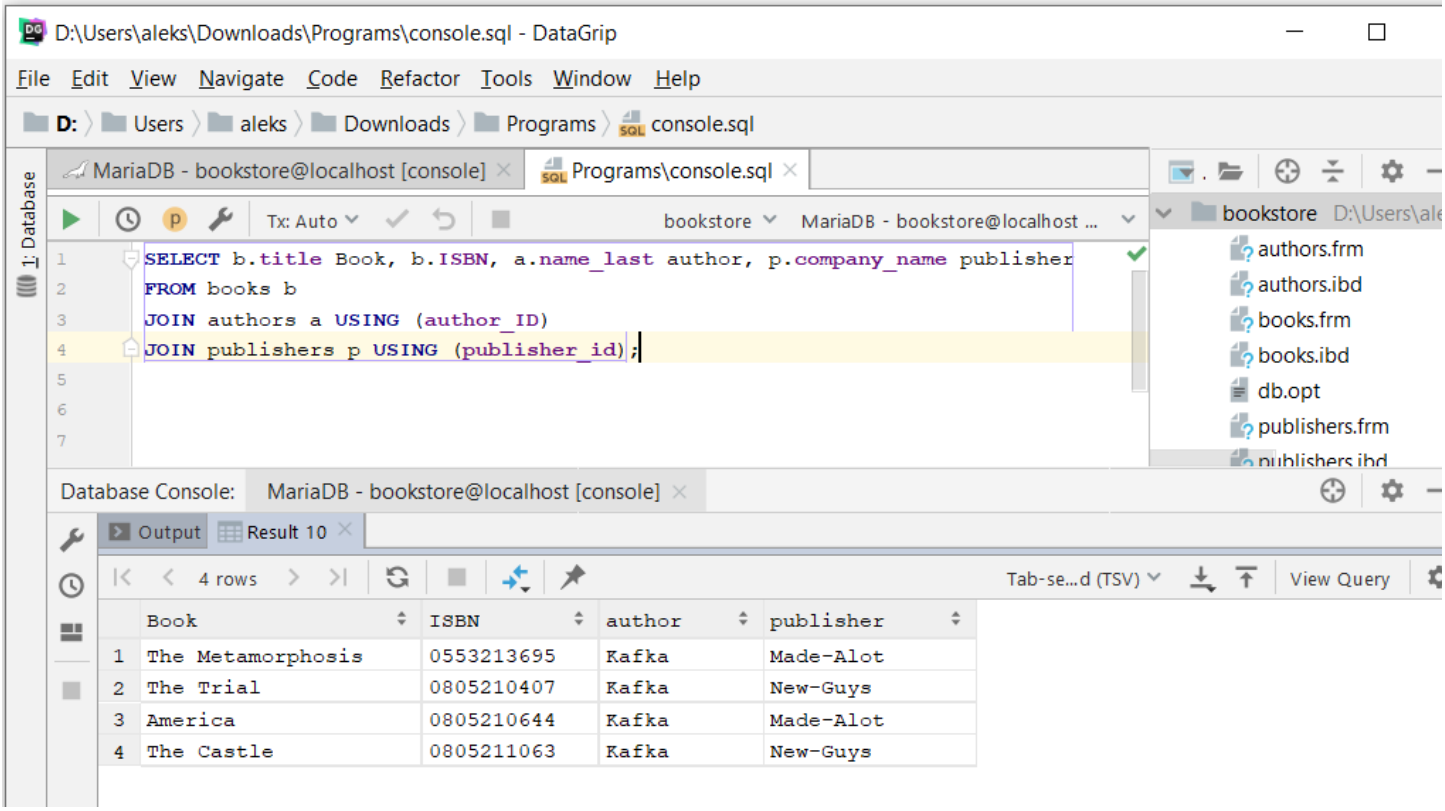

Assignment:

"Your final assignment is to add few more rows to the authors table. Then, change the books table foreign keys to use some of the new authors, but keep one book author as Kafka. You can change the title of the books if you want to or feel free to add new books with a new author and publisher.

Add more columns to query result set for contact_name_last**,** Contact_name_first **and** country **(country from both author table and publisher table). Create two new column aliases so that you can tell the difference between the author country and publisher country in the result set. Don't forget the table aliases or you might get an error on the country column since it exists in two different tables."**

On the print screens below I showed how I altered the tables. I added 3 more rows to the authors table (Pushkin, Tolstoy and Wild) then added isbn to those 3 new authors in the books table. I used the same publishers. Then I changed foreign keys, so the information is updated, and we have our new books. I added new book`s names, and their country and year when they were published. For output table I used 1 old author and 3 new authors with new information.

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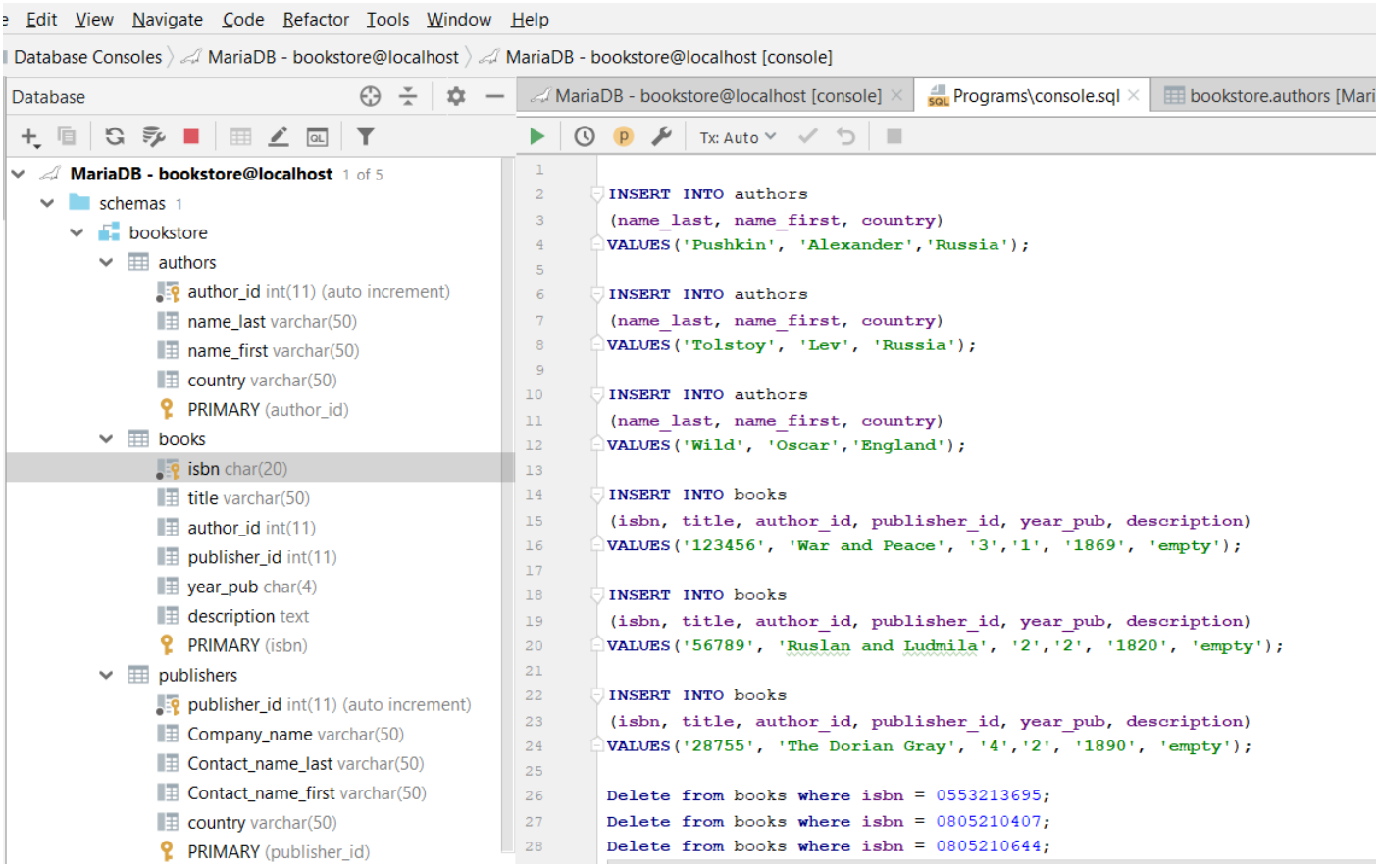
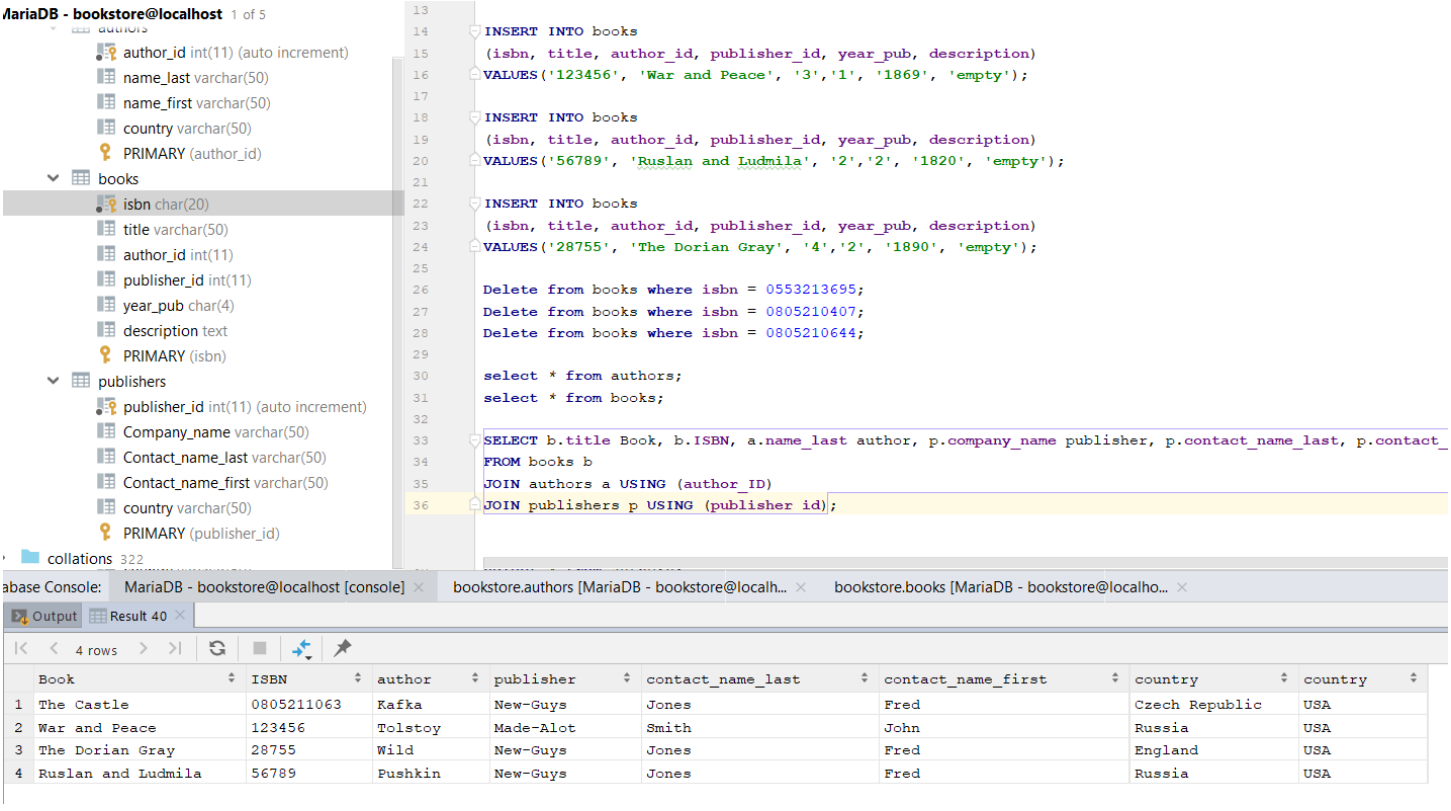
D:\Users\aleks\Downloads\Programs\console.sql - DataGrip





	Book	ISBN	author	publisher	contact_name_last	contact_name_first	country	country
1	The Castle	0805211063	Kafka	New-Guys	Jones	Fred	Czech Republic	USA
2	War and Peace	123456	Tolstoy	Made-Alot	Smith	John	Russia	USA
3	The Dorian Gray	28755	Wild	New-Guys	Jones	Fred	England	USA
4	Ruslan and Ludmila	56789	Pushkin	New-Guys	Jones	Fred	Russia	USA

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<Filter criteria>

	author_id	name_last	name_first	country
1	1	Kafka	Franz	Czech Republic
2	2	Pushkin	Alexander	Russia
3	3	Tolstoy	Lev	Russia
4	4	Wild	Oscar	England

<Filter criteria>

	isbn	title	author_id	publisher_id	year_pub	description
1	0805211063	The Castle	1	2	1998	*<null>*
2	123456	War and Peace	3	1	1869	empty
3	28755	The Dorian Gray	4	2	1890	empty
4	56789	Ruslan and Ludmila	2	2	1820	empty