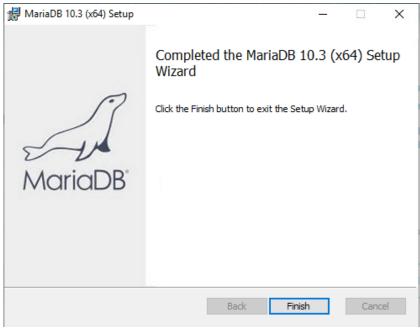
Part 1: Install MariaDB and DataGrip

Installing MariaDB



Testing MariaDB

```
■ Administrator Command Prompt (MariaDB 10.3 (x64)) - mysql -u root -p

Setting environment for MariaDB 10.3 (x64)

C:\Windows\system32\mysql -u root -p

Enter password: ********

Welcome to the MariaDB monitor. Commands end with; or \g.

Your MariaDB connection id is 9

Server version: 10.3.22-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> ■
```

Creating DB

```
MariaDB [bookstore]> CREATE TABLE books (
-> isbn CHAR(20) PRIMARY KEY,
-> title VARCHAR(50),
-> author_id INT,
-> publisher_id INT,
-> year_pub CHAR(4),
-> description TEXT );
Query OK, 0 rows affected (0.057 sec)

MariaDB [bookstore]> _
```

```
MariaDB [bookstore]> DESCRIBE books;
 Field
            Type
                                  | Null | Key | Default | Extra |
  isbn
                 char(20)
                                 NO
                                           PRI NULL
 title | varchar(50) |
author_id | int(11) |
publisher_id | int(11) |
year_pub | char(4) |
description | text |
                                    YES
                                                    NULL
                                                    NULL
                                                    NULL
                                    YES
                                                    NULL
                                   YES
                                                    NULL
6 rows in set (0.093 sec)
MariaDB [bookstore]> 🕳
```

```
MariaDB [bookstore]> CREATE TABLE authors
    -> (author_id INT AUTO_INCREMENT PRIMARY KEY,
    -> name_last VARCHAR(50),
-> name_first VARCHAR(50),
    -> country VARCHAR(50) );
Query OK, 0 rows affected (0.038 sec)
MariaDB [bookstore]> DESCRIBE authors;
 Field | Type | Null | Key | Default | Extra
 author_id | int(11) | NO
name_last | varchar(50) | YES
name_first | varchar(50) | YES
country | varchar(50) | YES
                                         | PRI |
                                                   NULL
                                                              auto_increment
                                                   NULL
                                                   NULL
                                                   NULL
4 rows in set (0.040 sec)
MariaDB [bookstore]>
```

Inserting Data

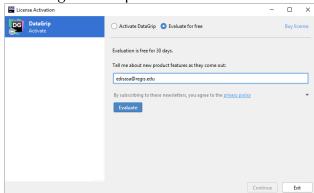
Verifying the Data Entry

Joining Table

Exiting MariaDB

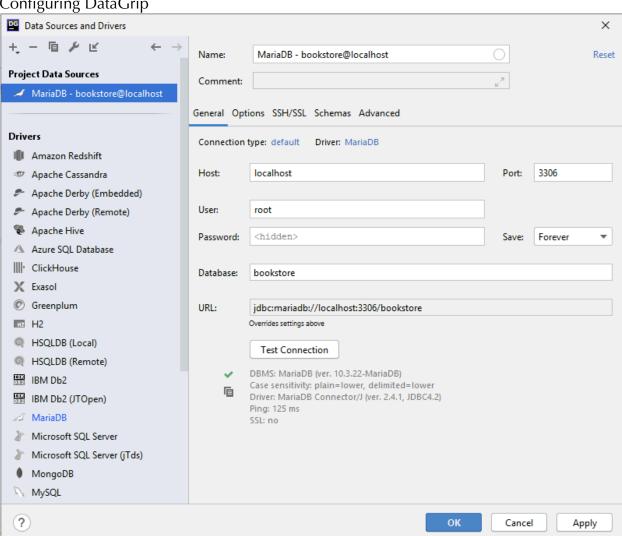
```
MariaDB [bookstore]> quit
Bye
C:\Windows\system32>exit_
```

Installing DataGrip

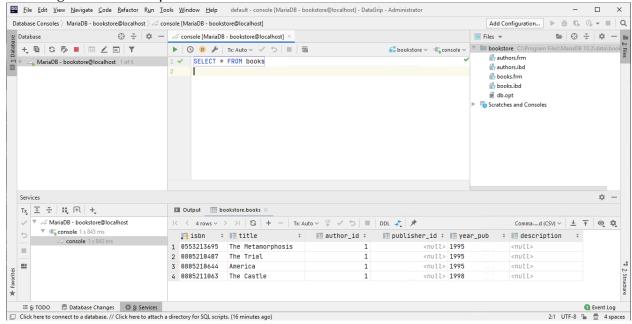




Configuring DataGrip



Working with DataGrip





END OF PART ONE

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Part 2: Execute queries using MariaDB

Creating Tables

```
CREATE TABLE publishers
(publisher id INT AUTO INCREMENT PRIMARY KEY,
Company_name VARCHAR(50),
Contact_name_last VARCHAR(50),
Contact name first VARCHAR(50),
country VARCHAR(50) );
▶ 🕓 👂 🔑 | Tx: Auto ∨ 🗸 😏 | 🔳 | 🚟
                                                                                                          ■ bookstore ∨ 📲 console 🤊
1 	✓ □CREATE TABLE publishers
    (publisher_id INT AUTO_INCREMENT PRIMARY KEY,
    Company_name VARCHAR(50),
    Contact_name_last VARCHAR(50),
    Contact_name_first VARCHAR(50),
     country VARCHAR(50) );
■ Output ■ Result 2

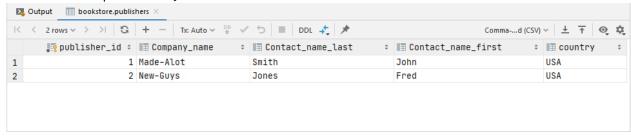
▼ ∠ MariaDB - bookstore@localhost

                              bookstore> CREATE TABLE publishers
    ▼ Console 219 ms
✓ console 219 ms
                                      (publisher_id INT AUTO_INCREMENT PRIMARY KEY,
                                       Company_name VARCHAR(50),
                                      Contact_name_last VARCHAR(50),
                                      Contact_name_first VARCHAR(50),
==
                                      country VARCHAR(50) )
                              [2020-04-07 05:57:21] completed in 125 ms
Entring Data
INSERT INTO publishers
(company_name, contact_name_last, Contact_name_first, country)
VALUES('Made-Alot', 'Smith', 'John', 'USA');
```

INSERT INTO publishers

(company_name, contact_name_last, Contact_name_first, country)
VALUES('New-Guys', 'Jones', 'Fred', 'USA');

SELECT * FROM publishers;

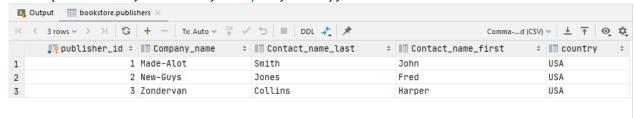


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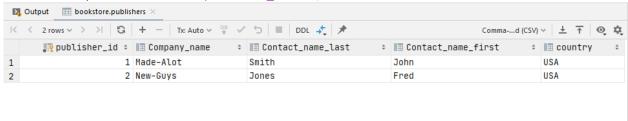
I decided to add an entry "accidentally". ©

INSERT INTO publishers

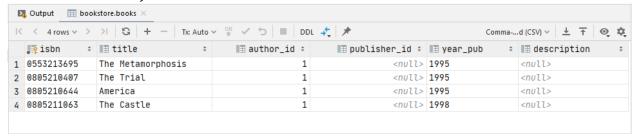
(company_name, contact_name_last, Contact_name_first, country)
VALUES('Zondervan', 'Collins', 'Harper', 'USA');



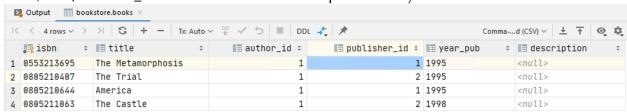
DELETE FROM publishers WHERE publisher_id > 2;



SELECT * FROM books;



Now, the publisher id entries have been saved permanently.



```
bookstore> UPDATE bookstore.books t SET t.publisher_id = 1 WHERE t.isbn LIKE '0553213695' ESCAPE '#'

[2020-04-07 06:21:09] 1 row affected in 218 ms

bookstore> UPDATE bookstore.books t SET t.publisher_id = 2 WHERE t.isbn LIKE '0805211063' ESCAPE '#'

[2020-04-07 06:21:09] 1 row affected in 16 ms

bookstore> UPDATE bookstore.books t SET t.publisher_id = 2 WHERE t.isbn LIKE '0805210407' ESCAPE '#'

[2020-04-07 06:21:09] 1 row affected in 0 ms

bookstore> UPDATE bookstore.books t SET t.publisher_id = 1 WHERE t.isbn LIKE '0805210644' ESCAPE '#'

[2020-04-07 06:21:09] 1 row affected in 0 ms

bookstore> SELECT * FROM books

[2020-04-07 06:21:09] 4 rows retrieved starting from 1 in 46 ms (execution: 30 ms, fetching: 16 ms)
```

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Problem 1

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.

Solution 1



Problem 2

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.

Solution 2

```
Adding more rows
INSERT INTO authors
(name_last, name_first, country)
VALUES ('Mengiste', 'Maaza', 'Ethiopia');
INSERT INTO authors
(name_last, name_first, country)
VALUES ('Farrow', 'Ronan', 'USA');

‡ III country

1
              1 Kafka
                            Franz
                                           Czech Republic
              2 Mengiste
2
                             Maaza
                                           Ethiopia
3
              3 Farrow
                             Ronan
```

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Adding more rows to the books table

```
INSERT INTO books
(isbn, title, author_id, publisher_id, year_pub, description)
VALUES ('0393083569', 'The Shadow King', '2', '1', '2019', '');
INSERT INTO books
(isbn, title, author_id, publisher_id, year_pub, description)
VALUES ('0316486637', 'Catch and Kill', '3', '2', '2019', '');
```

SELECT * FROM books;

I<	< 6 rows > >	> 'G + - Tx: Auto ∨ □B	✓ 5 ■ DDL 🚓 🖈		Commad (CSV) ∨ ± + → • • • • • • • • • • • • • • • • • •		
	J isbn ≎	I≣ title	author_id ≎	I ■ publisher_id ‡	∥≣ year_pub ÷	■ description ÷	
1	0316486637	Catch and Kill	3	2	2019		
2	0393083569	The Shadow King: A Novel	2	1	2019		
3	0553213695	The Metamorphosis	1	1	1995	<null></null>	
4	0805210407	The Trial	1	2	1995	<null></null>	
5	0805210644	America	1	1	1995	<null></null>	
6	0805211063	The Castle	1	2	1998	<null></null>	

Changing data in the books table

```
UPDATE books
SET author_id = '2'
WHERE isbn = '0805210644';
UPDATE books
SET author_id = '3'
WHERE isbn = '0805211063';
```

SELECT * FROM books;

	J isbn ≎	I≣ title	\$ ⊞ author_id ≎	I≣ publisher_id ‡	■ year_pub ‡	■ description
1	0316486637	Catch and Kill	3	2	2019	
2	0393083569	The Shadow King: A Novel	2	1	2019	
3	0553213695	The Metamorphosis	1	1	1995	<null></null>
4	0805210407	The Trial	1	2	1995	<null></null>
5	0805210644	America	2	1	1995	<null></null>
6	0805211063	The Castle	3	2	1998	<null></null>

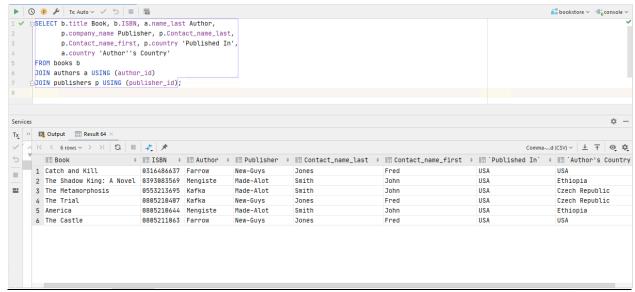
Problem 3

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.

Solution 3

Below shows the added columns and their aliases

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END OF PART TWO