MYSQL PROJECT

BOOK STORE

Enter password: \*\*\*\*

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

Your MySQL connection id is 12

Server version: 8.0.34 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective

owners.

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

* **SHOW DATABSE**

mysql> **show databases;**

+--------------------+

| Database |

+--------------------+

| arpita |

| horizon |

| information\_schema |

| it |

| megha |

| mysql |

| performance\_schema |

| sakila |

| sys |

| v410 |

| world |

+--------------------+

11 rows in set (0.00 sec)

* **CREATE DATABASE.**

mysql> **create database bookstoretest;**

Query OK, 1 row affected (0.01 sec)

mysql> **use bookstoretest;**

Database changed

* **CREATE BOOK TABLE**

mysql> **create table Book**

**-> (**

**-> BookID int primary key,**

**-> Title varchar(255),**

**-> Author varchar(255),**

**-> Genre varchar(50),**

**-> Price decimal(10, 2),**

**-> Stock int**

**-> );**

Query OK, 0 rows affected (0.03 sec)

mysql> desc Book;

+--------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+---------------+------+-----+---------+-------+

| BookID | int | NO | PRI | NULL | |

| Title | varchar(255) | YES | | NULL | |

| Author | varchar(255) | YES | | NULL | |

| Genre | varchar(50) | YES | | NULL | |

| Price | decimal(10,2) | YES | | NULL | |

| Stock | int | YES | | NULL | |

+--------+---------------+------+-----+---------+-------+

6 rows in set (0.00 sec)



* **CREATE CUSTOMER TABLE**

mysql> **create table customer**

**-> (**

**-> CustomerID int primary key,**

**-> FirstName varchar(50),**

**-> LastName varchar(50),**

**-> Email varchar(100),**

**-> PhoneNo varchar(15),**

**-> Address Text**

**-> );**

Query OK, 0 rows affected (0.02 sec)

mysql> desc customer;

+------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+--------------+------+-----+---------+-------+

| CustomerID | int | NO | PRI | NULL | |

| FirstName | varchar(50) | YES | | NULL | |

| LastName | varchar(50) | YES | | NULL | |

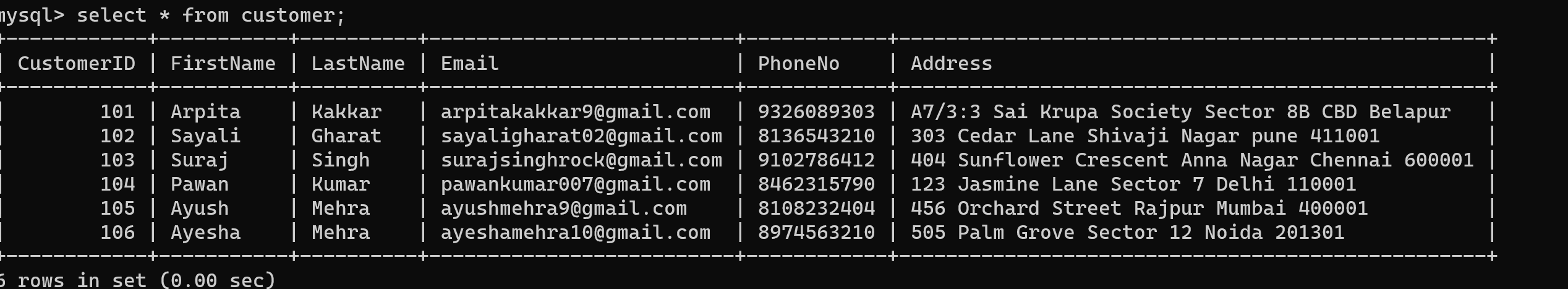
| Email | varchar(100) | YES | | NULL | |

| PhoneNo | varchar(15) | YES | | NULL | |

| Address | text | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

6 rows in set (0.00 sec)



* **CREATE ORDERTABEL**

mysql> select \* from ordertable;

+---------+------------+------------+-------------+

| OrderId | CustomerID | OrderDate | TotalAmount |

+---------+------------+------------+-------------+

| 201 | 101 | 2023-10-25 | 899.00 |

| 202 | 102 | 2023-10-26 | 799.00 |

| 203 | 103 | 2023-10-27 | 643.00 |

| 204 | 104 | 2023-10-28 | 602.00 |

| 205 | 105 | 2023-10-29 | 688.00 |

| 206 | 101 | 2023-10-30 | 500.00 |

+---------+------------+------------+-------------+

6 rows in set (0.00 sec)

mysql> delete from ordertable where orderid=201;

Query OK, 1 row affected (0.01 sec)

mysql> **select \* from ordertable;**

+---------+------------+------------+-------------+

| OrderId | CustomerID | OrderDate | TotalAmount |

+---------+------------+------------+-------------+

| 202 | 102 | 2023-10-26 | 799.00 |

| 203 | 103 | 2023-10-27 | 643.00 |

| 204 | 104 | 2023-10-28 | 602.00 |

| 205 | 105 | 2023-10-29 | 688.00 |

| 206 | 101 | 2023-10-30 | 500.00 |

+---------+------------+------------+-------------+

5 rows in set (0.00 sec)

mysql> **drop table ordertable;**

Query OK, 0 rows affected (0.02 sec)

mysql> desc ordertable;

ERROR 1146 (42S02): Table 'bookstoretest.ordertable' doesn't exist

* **CREATE NEW ORDERTABLE**

mysql> **create table ordertable**

**-> (**

**-> OrderID int primary key,**

**-> CustomerID int ,**

**-> BookID int,**

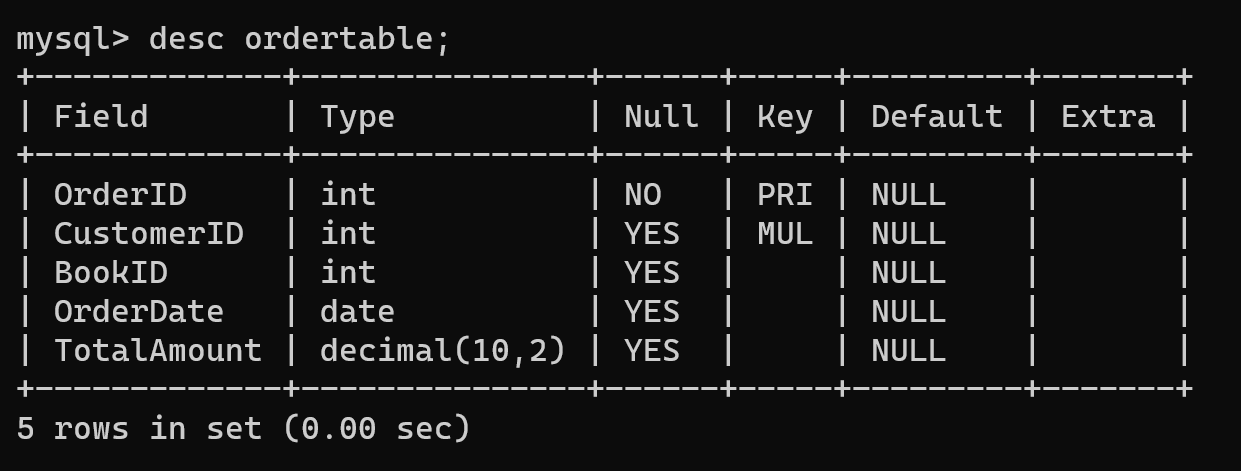
**-> OrderDate date,**

**-> TotalAmount Decimal(10, 2),**

**-> Foreign key (CustomerID) references Customer(CustomerID)**

**-> );**

Query OK, 0 rows affected (0.02 sec)



* **INSERT VALUES**

mysql> **insert into ordertable (OrderID,CustomerID,BookID,OrderDate,TotalAmount)**

**-> values**

**-> (101,101,1001,"2023-10-26",499.00),**

**-> (102,101,1002,"2023-10-26",399.00),**

**-> (103,102,1003,"2023-10-27",243.00),**

**-> (104,103,1004,"2023-10-27",399.00),**

**-> (105,104,1005,"2023-10-28",400.00),**

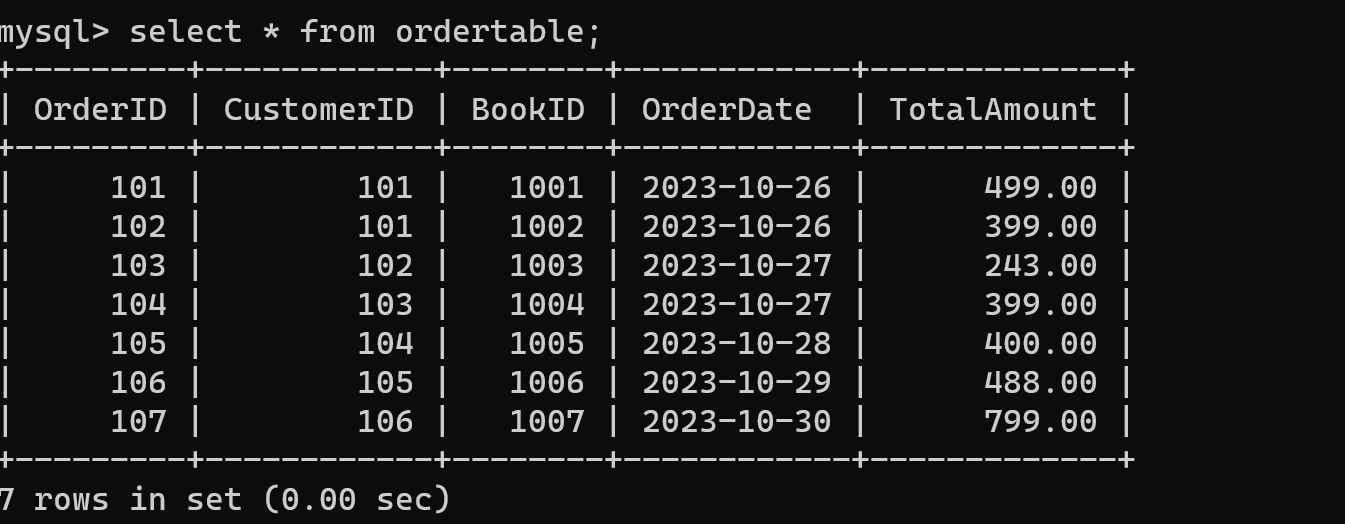
**-> (106,105,1006,"2023-10-29",488.00),**

**-> (107,106,1007,"2023-10-30",799.00)**

**-> ;**

Query OK, 7 rows affected (0.01 sec)

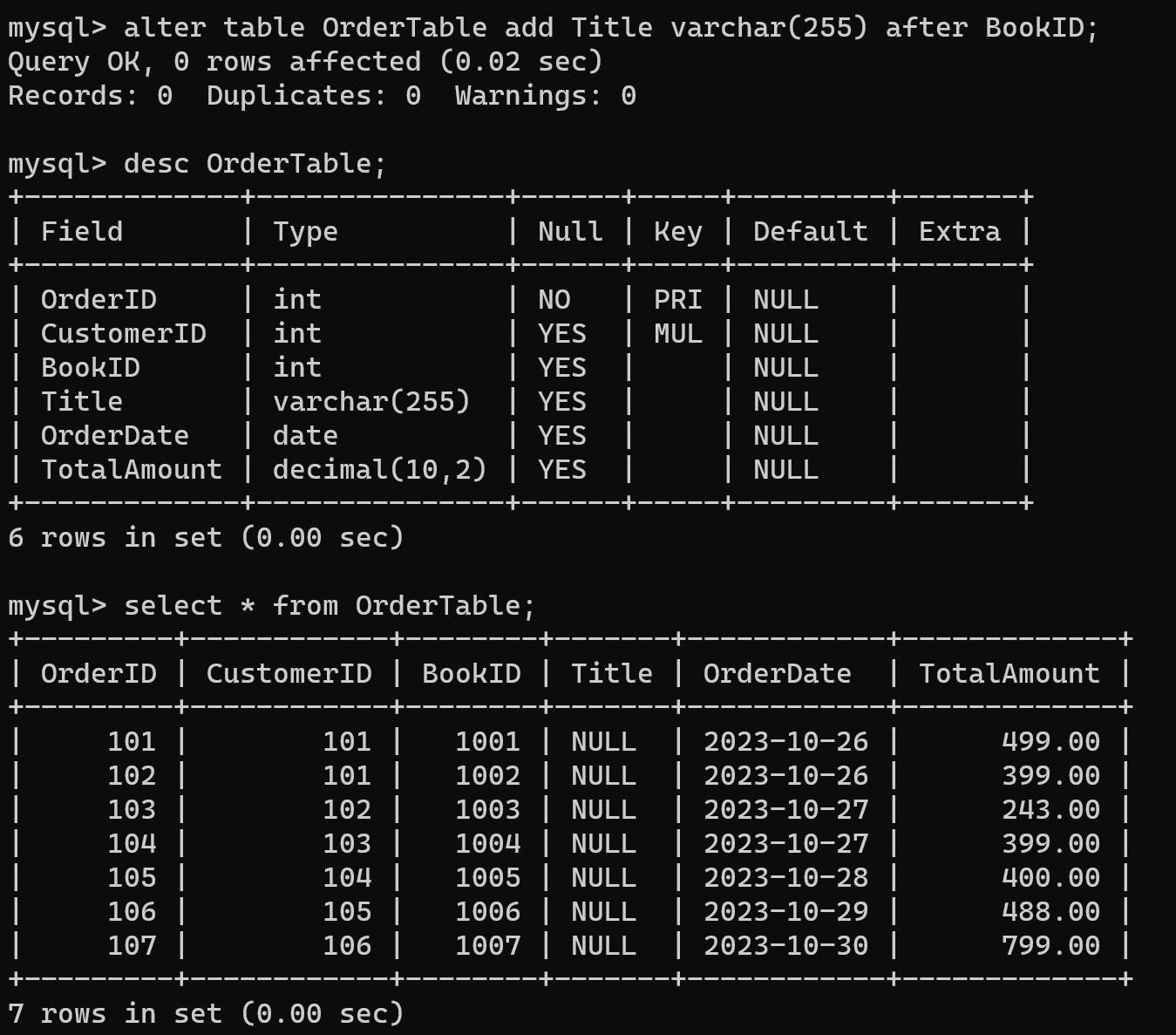
Records: 7 Duplicates: 0 Warnings: 0

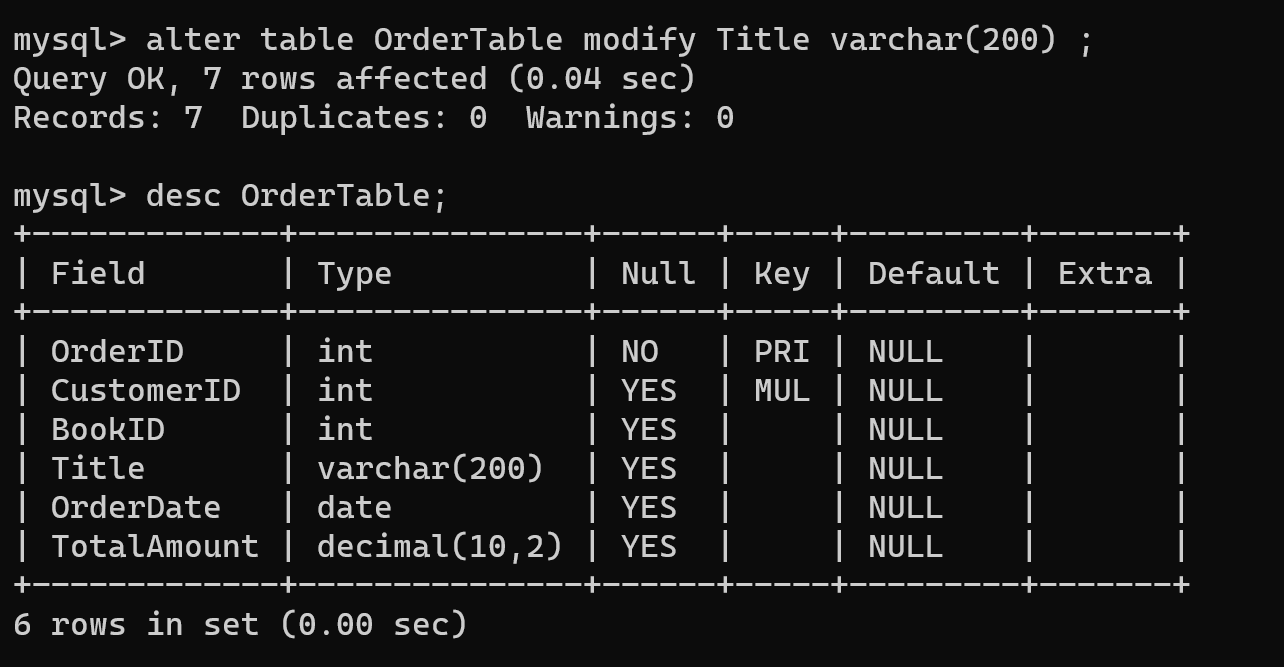


**RENAME TABLE BOOK TO BOOKDETAIL:**

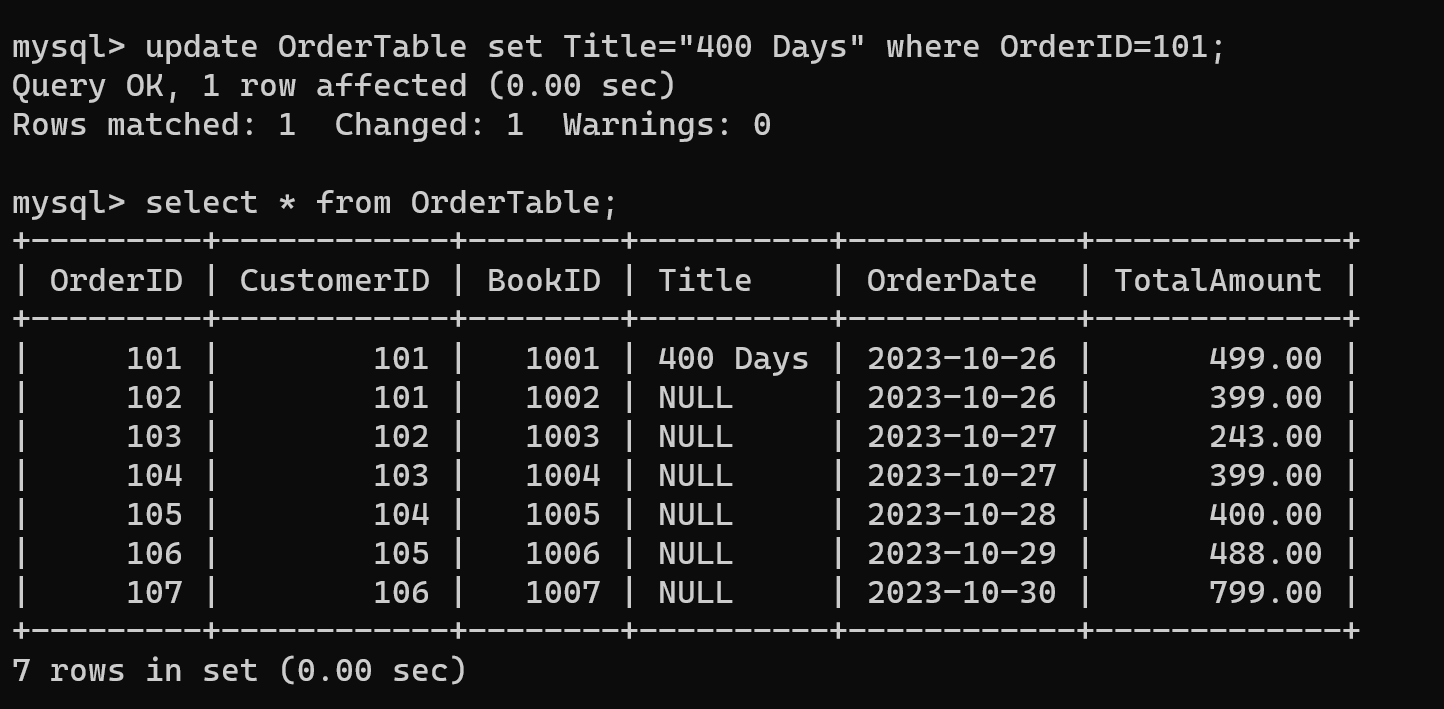


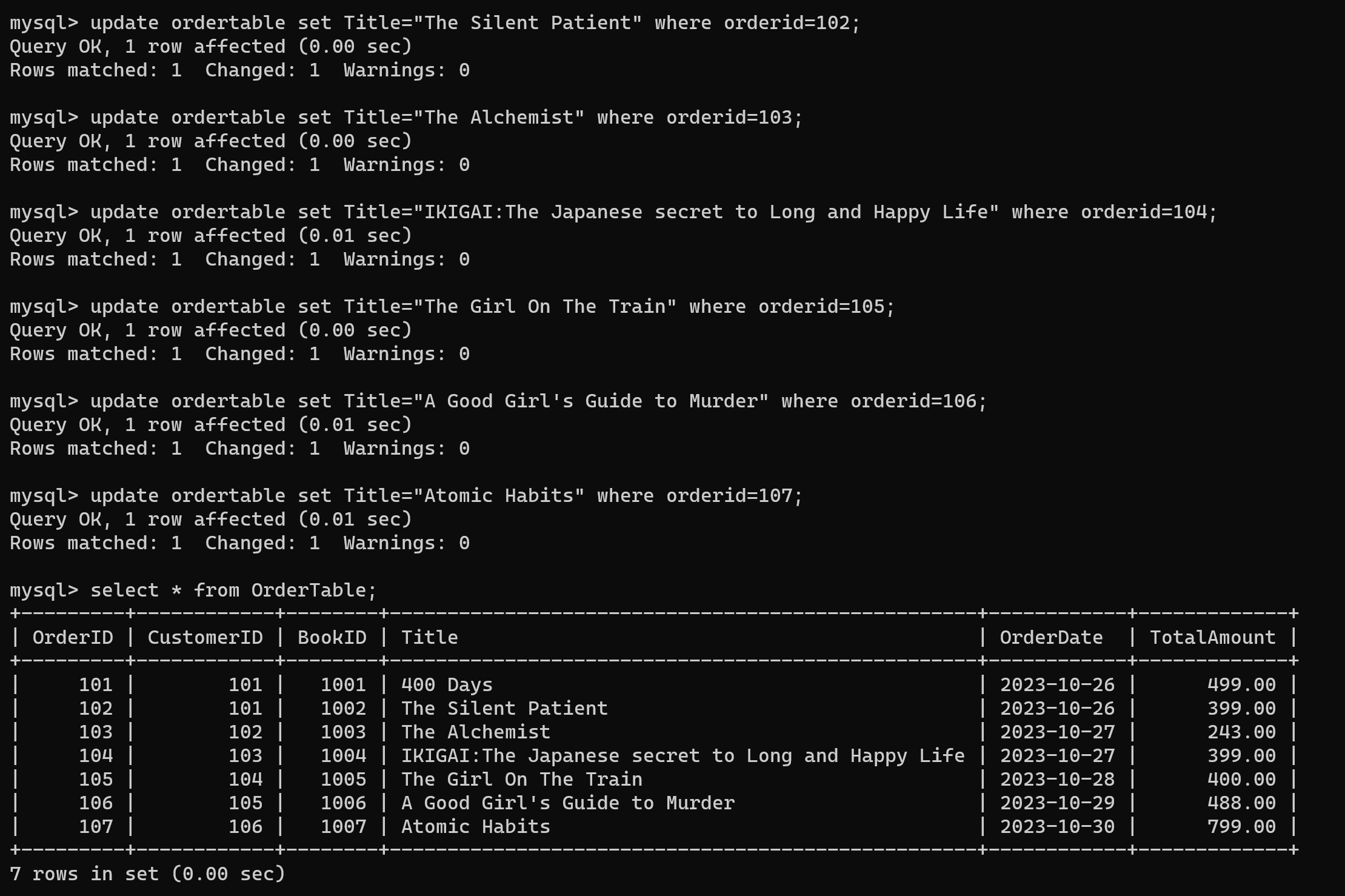
**Add new column:-**



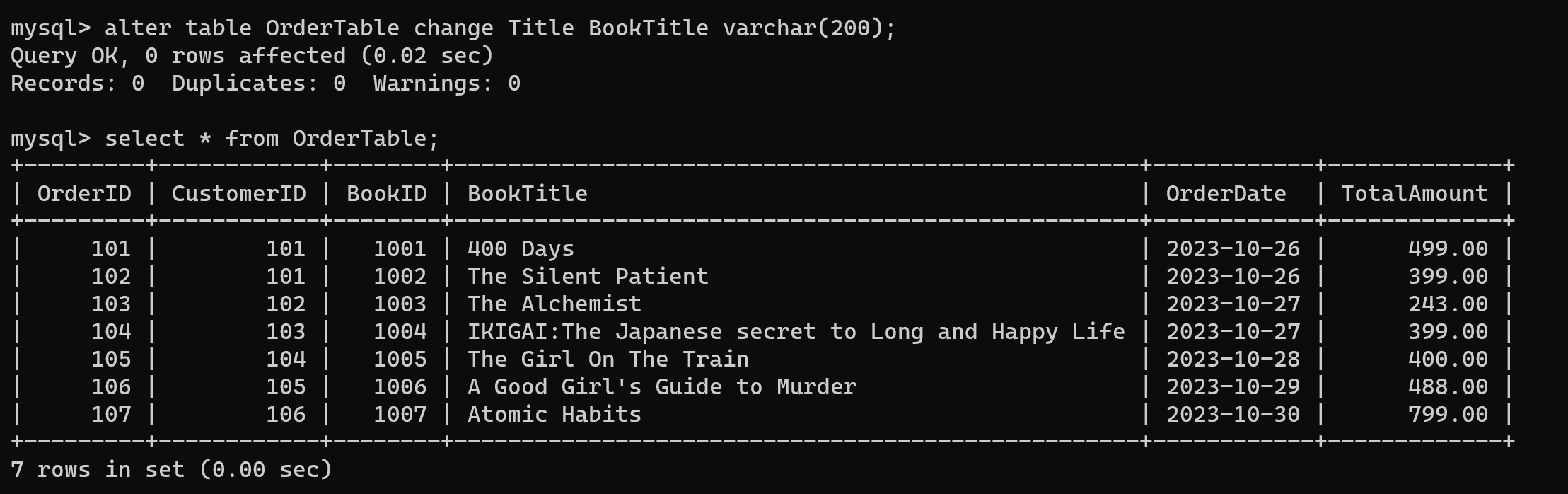
**MODIFY COLUMN :-**

**Update values in new column:**

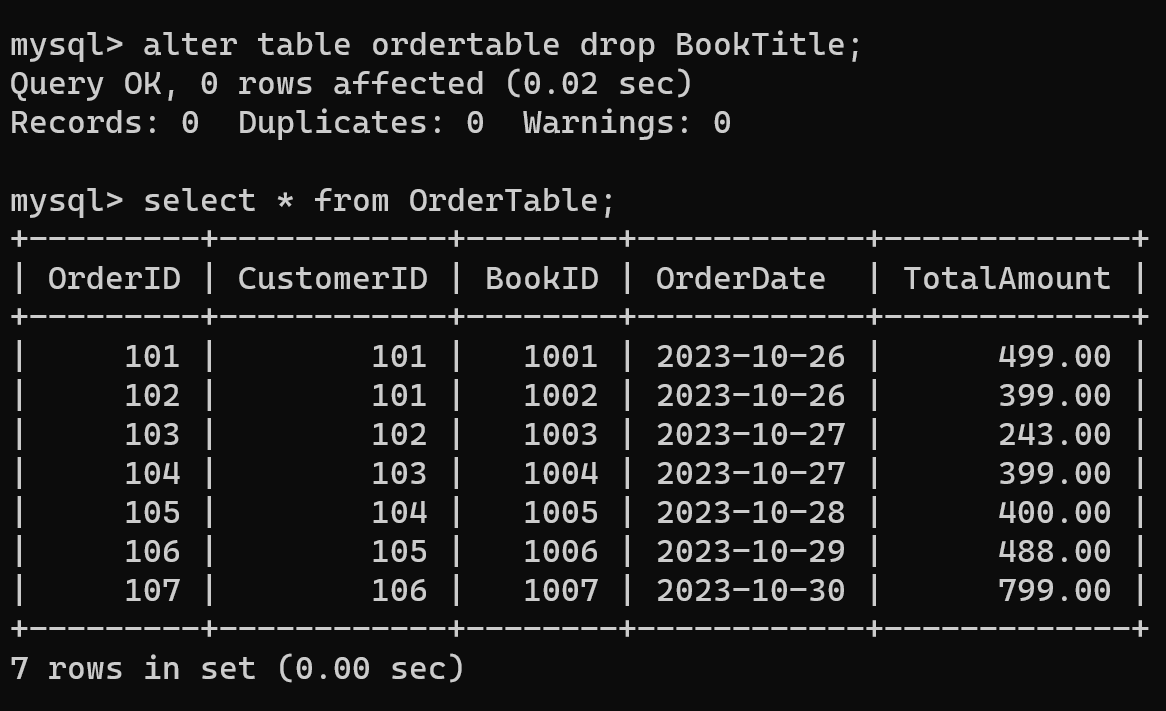




**Change column name :**

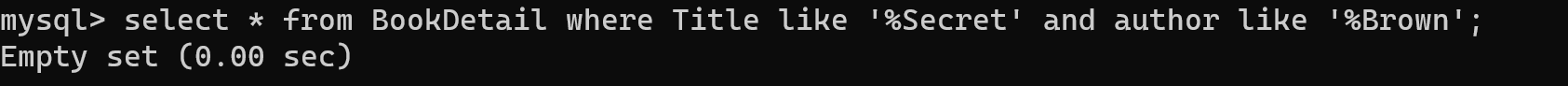


**Drop column :**

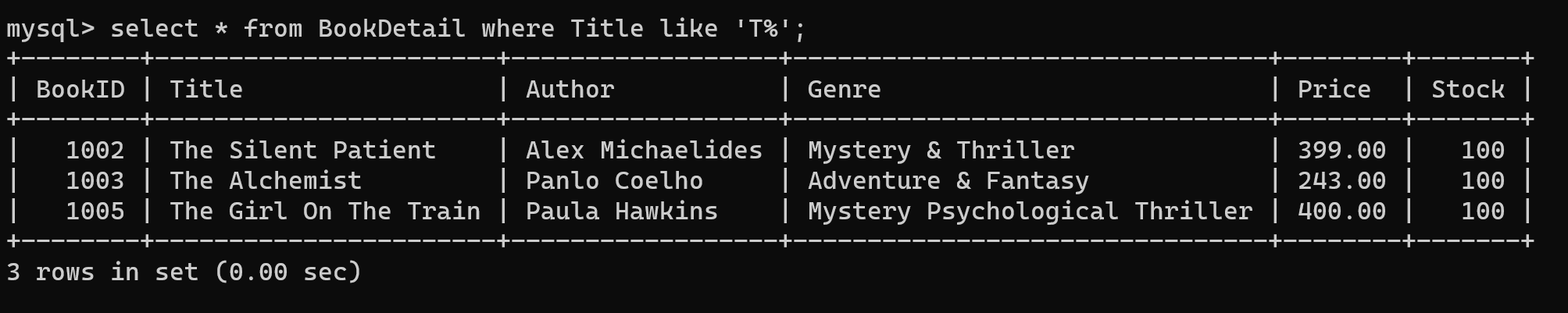


* **LIKE AND RLIKE**

Q1) Find book with titles conatining 'secret' and authors containiing'Brown'

* 

Q2) Display the detail of book title name starts with ‘T’ .

* 

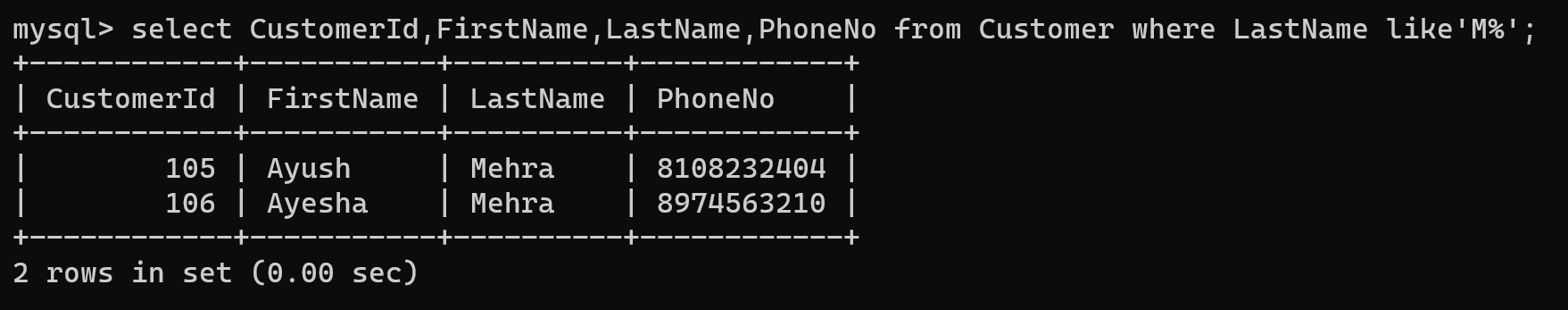
Q3) Display the detail of Author whose name ends with ‘S’.

* 

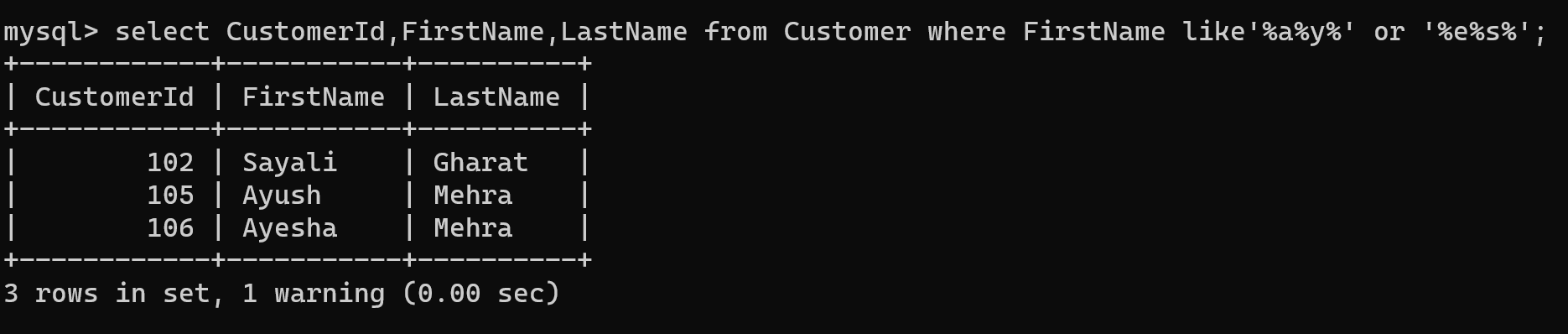
Q4) Display the detail of customer which have ‘pi’ in there name .

* 

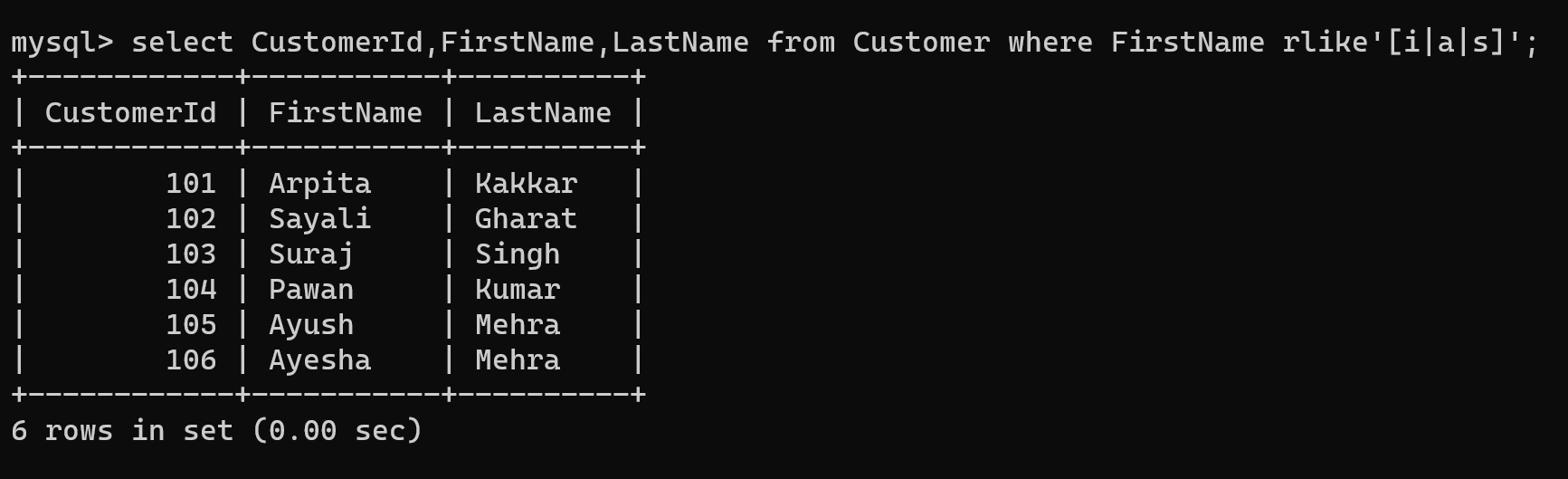
Q5) Display the CustomerID, FirstName,LastName ,PhoneNo of all customer whose LastName starts with ‘M’.

* 

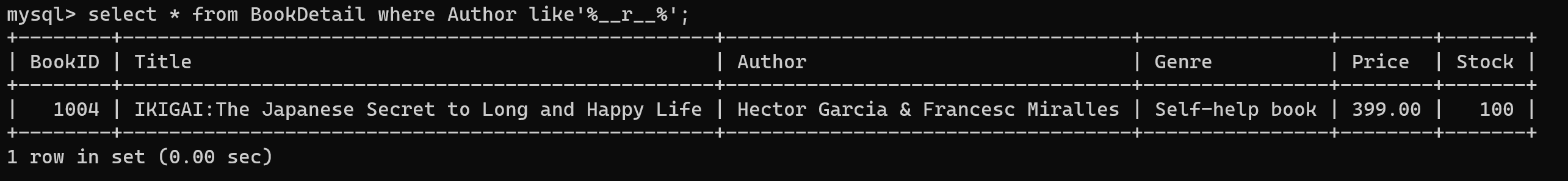
Q6) Display the CustomerID, FirstName, LastName of customer whose name have ‘ay’ or ‘es’ in there name .

* 

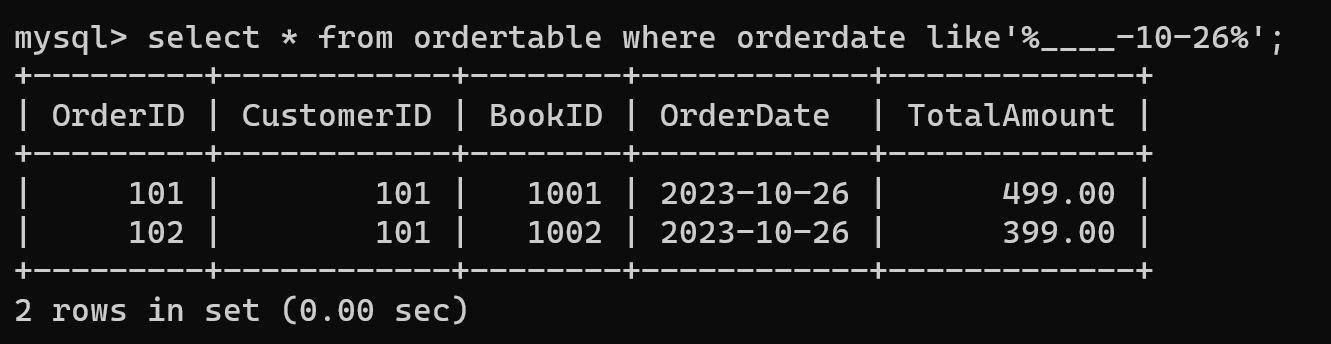
Q7) Display the CustomerID, FirstName, LastName of customer who have I,a,s anywhere in there name .

* 

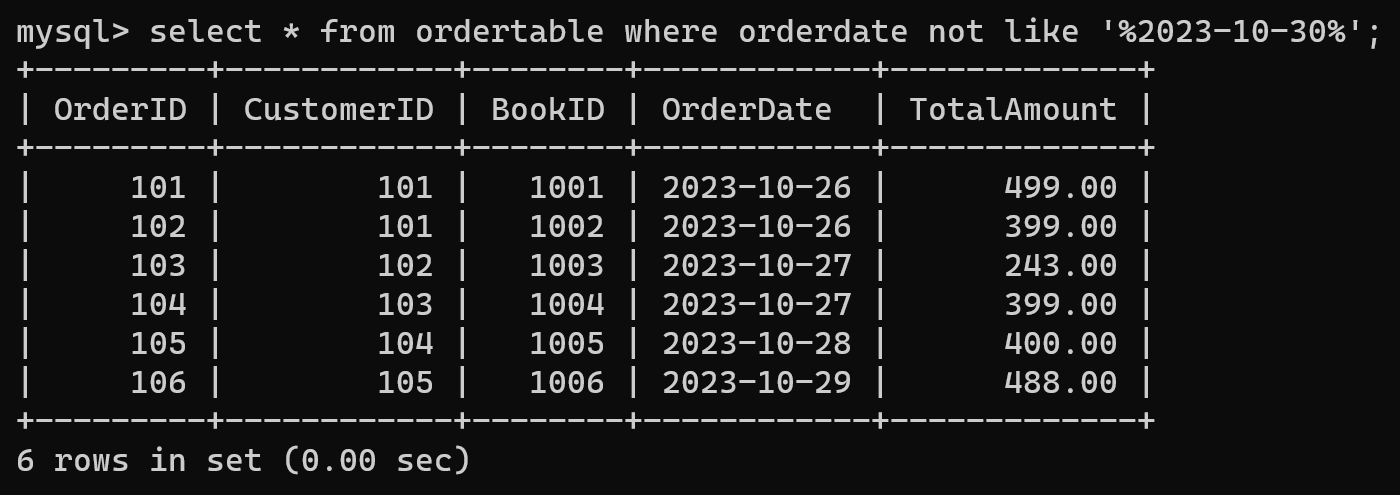
Q8) Display the detail of Author those are having four characters and third character must be r in there name.

* 

Q9) Display the detail of ordertable who have order on 26th of October .

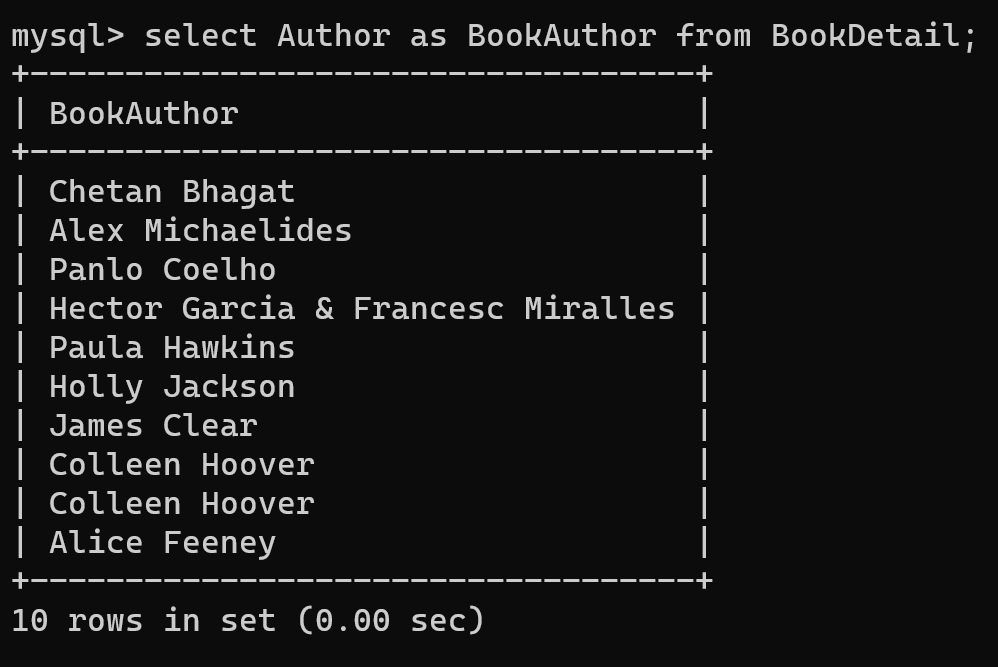


Q10) Display the detail of ordertable those who have order before 30th October .

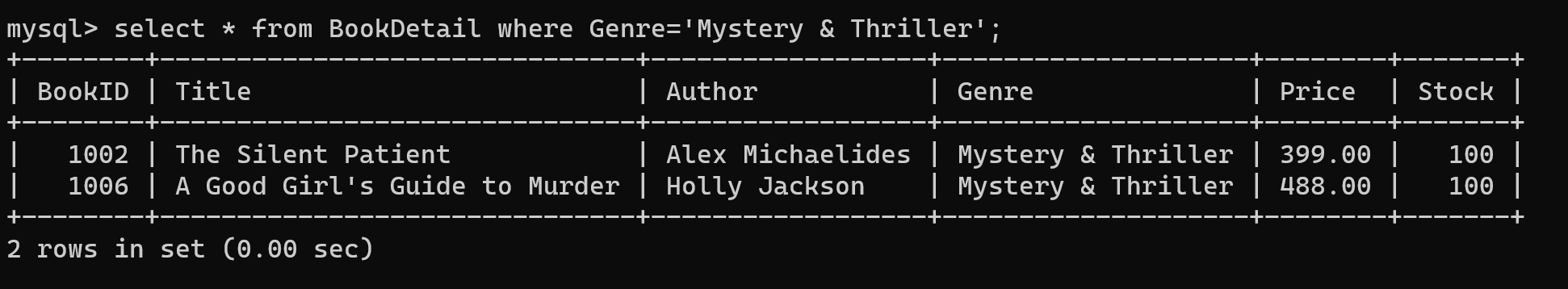
* 

* **ALIAS**

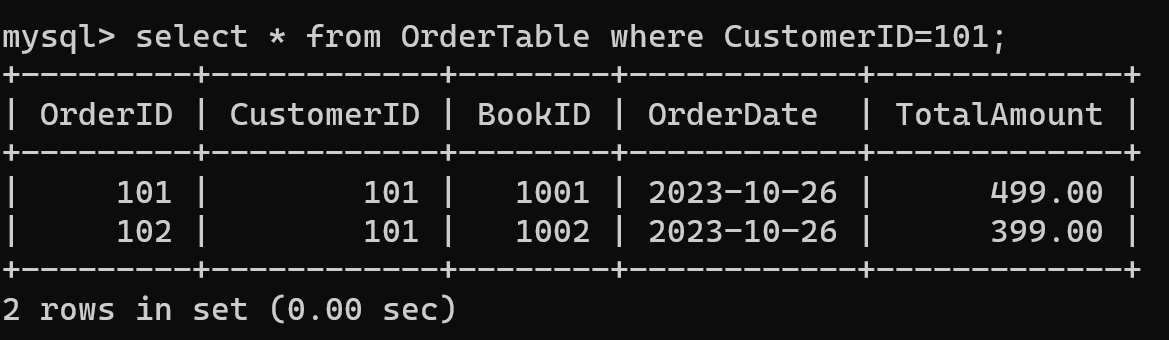
Q11) Change Author name temporary from book table into BookAuthor.

* 
* **WHERE CLAUSE**

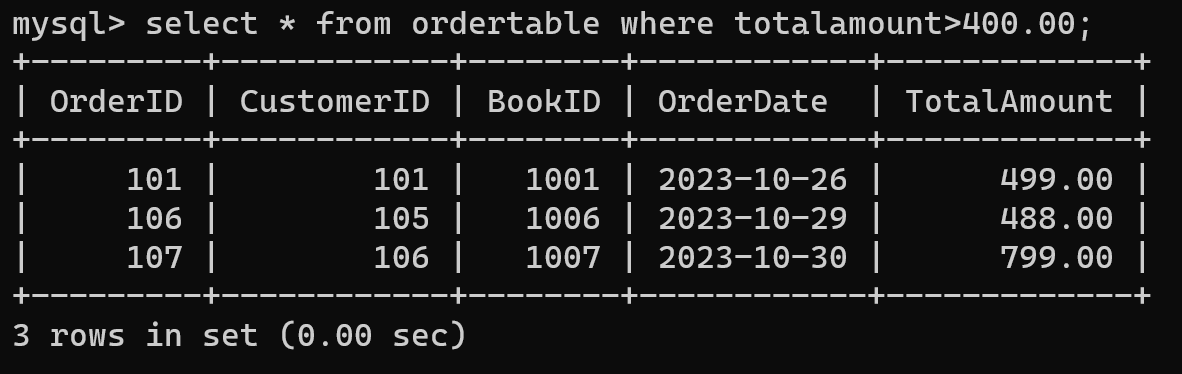
Q12) Display the details of books in the ‘Mystery & Thriller’ Genre from the ‘Bookdetail‘ table.

* 

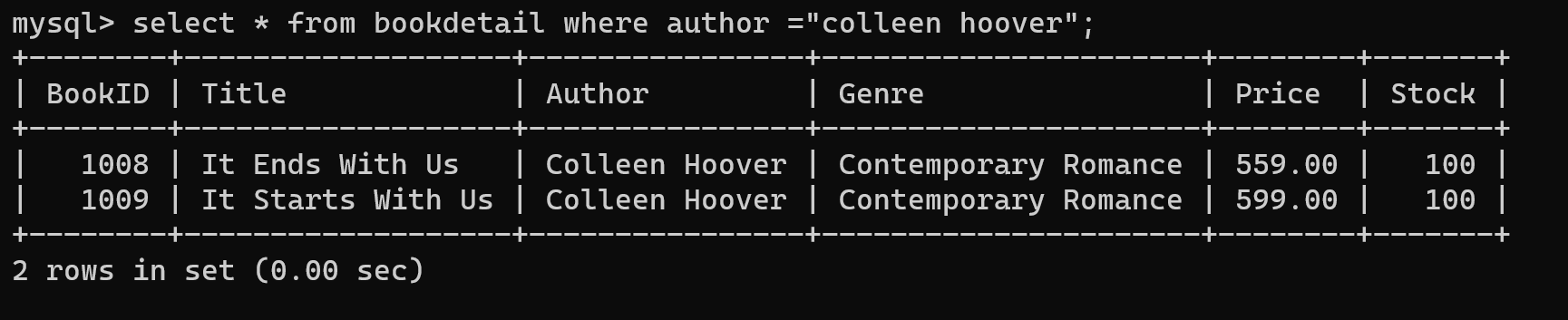
Q13) Display the details of order where customerid is 101 from the ‘OrderTable’.

* 

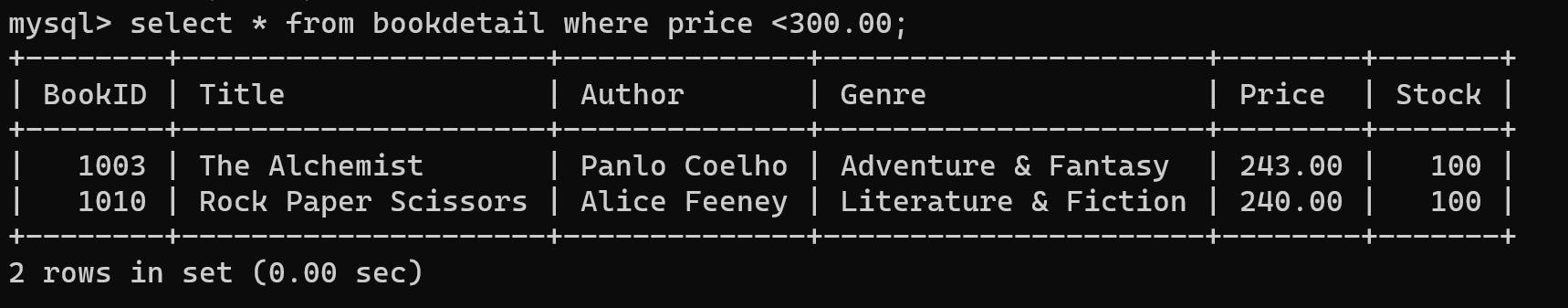
Q14) Display details of ordertable who have totalamount more than 400.

* 

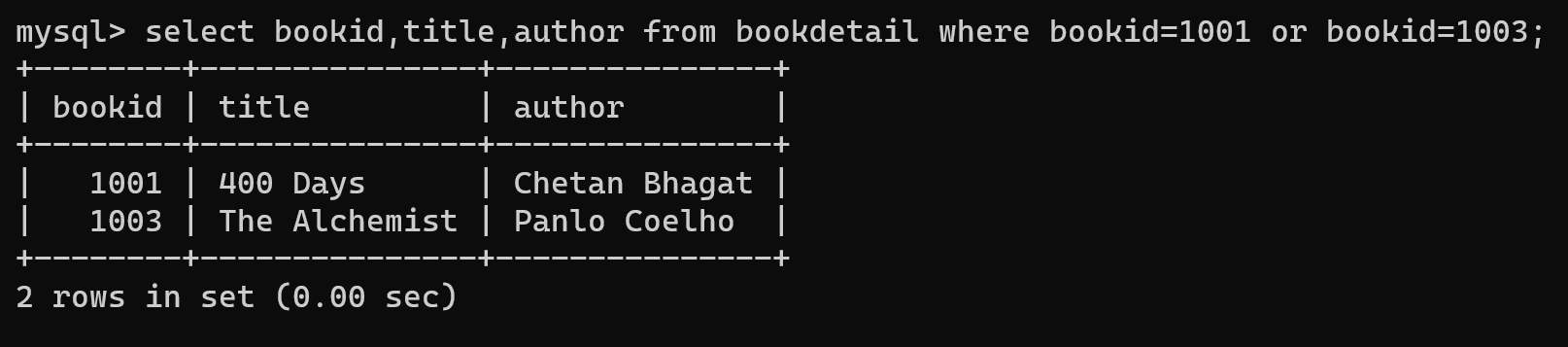
Q15) Display the detail of authore who is collen hoover.

* 

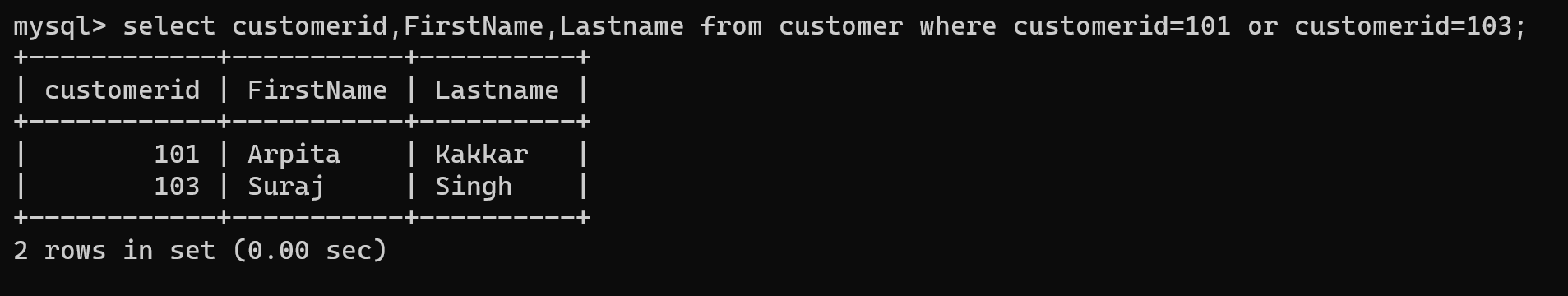
Q16) Display the detail from table bookdetails who have price more than 300.

* 

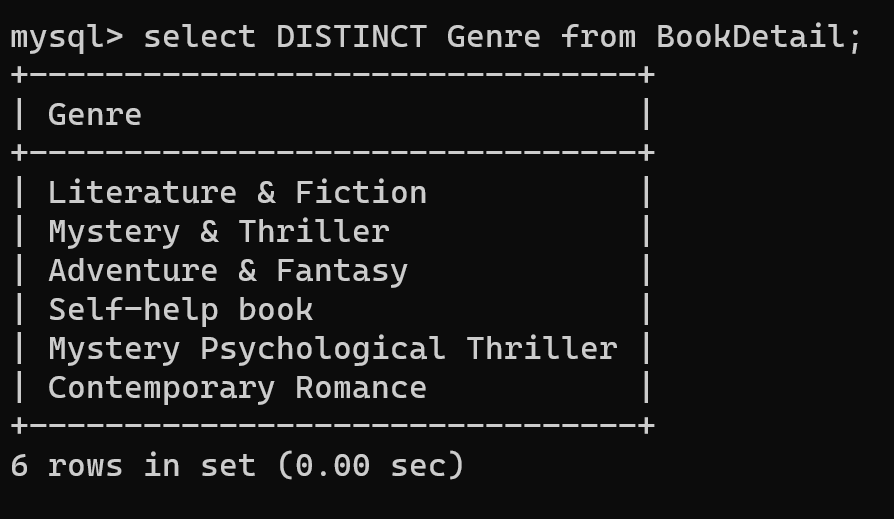
Q17) Display the BookID, Title, and Author from the bookdetail table where bookid is 1001 0r 1003.

* 

Q18) Display the CustomerId, FirstName, LastName from the customer table where customerid is 101 or 103.

* 
* **DISTINCT**

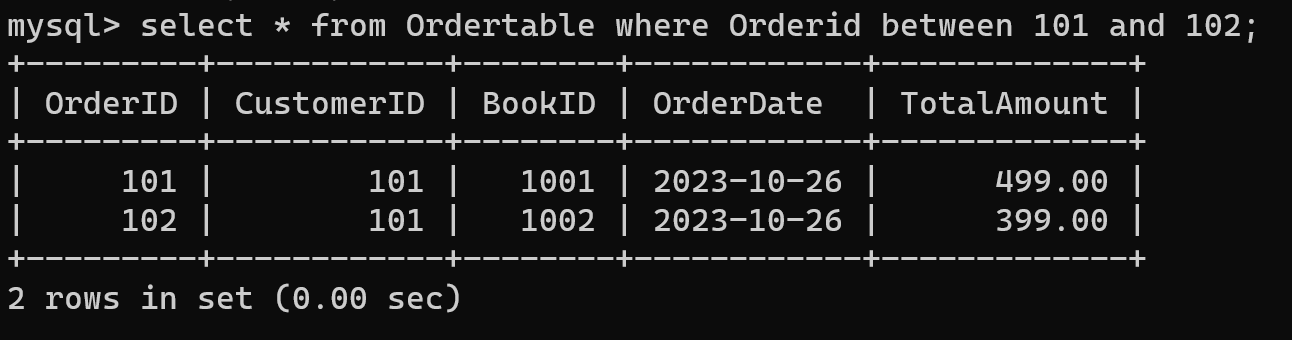
Q19) List all the distinct genres found in the bookdetail table.

* 
* **BETWEEN**

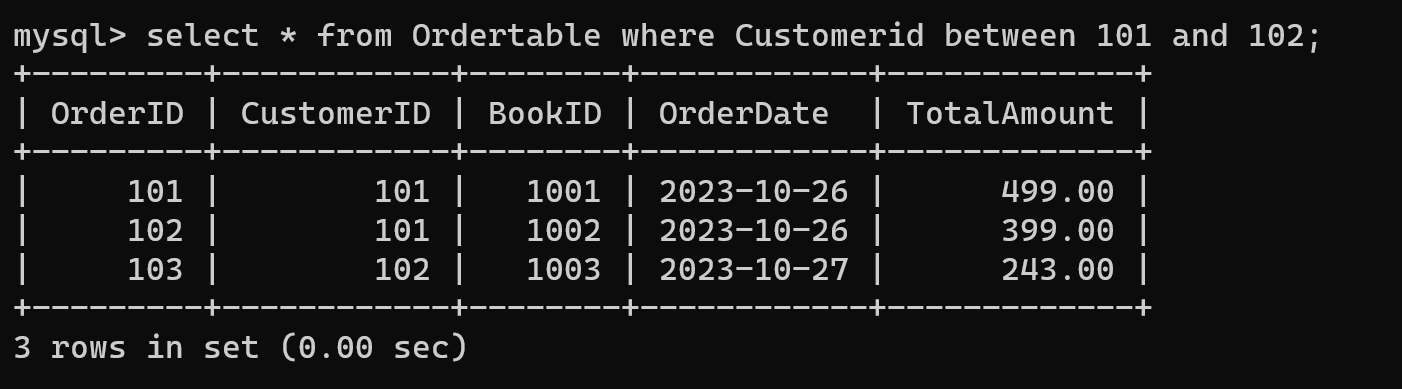
Q20) Display details of bookdetail whose price is between 200 to 500.

* 

Q21) Display the details of ordertable whose orderID is between 101 to 102.

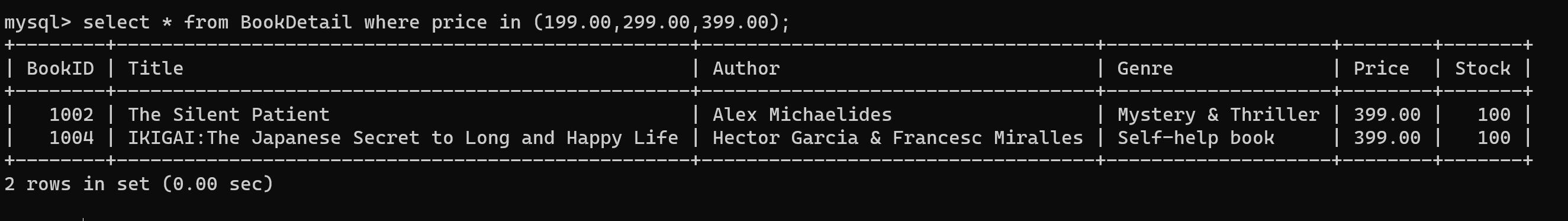
* 

Q22) Display the details of ordertable whose CustomerID is between 101 to 102.

* 
* **IN OPREATOR**

Q23) Display the details of customer whose customerID is 101 103 and 105.

* 

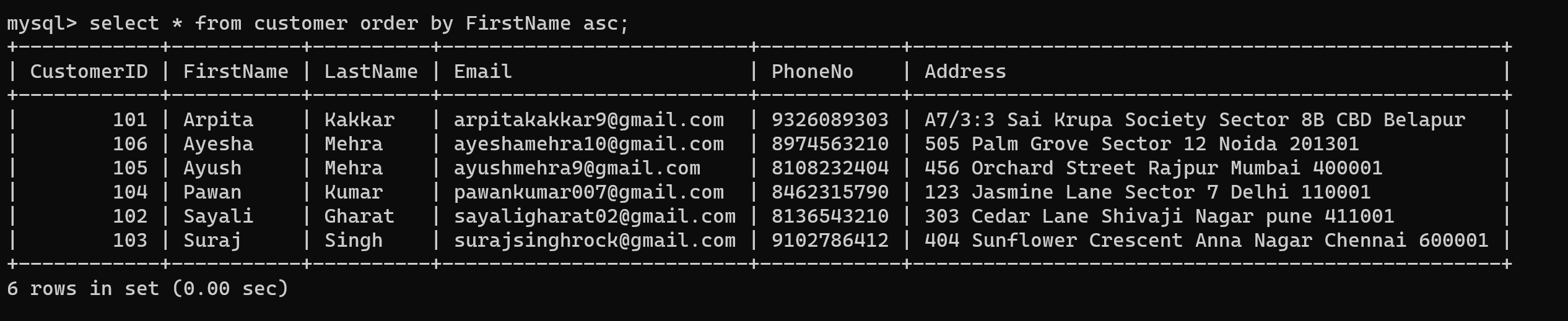
Q24) Display the details of bookdetail whose price is 199, 299 and 399.

* **ORDER BY**

Q25) Display the customer details from the customer table in descending order.

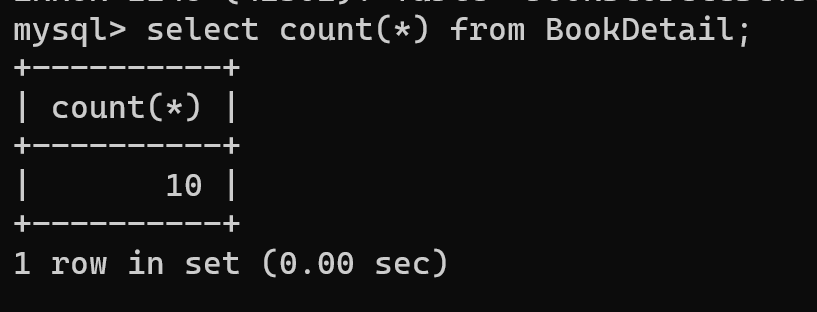
* 

Q26) Display the customer details from the customer table in ascending order.

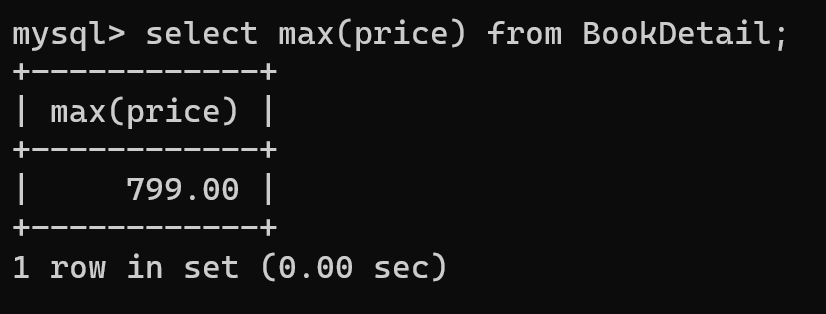
🡪 

* **AGGREGATE FUNCTION**

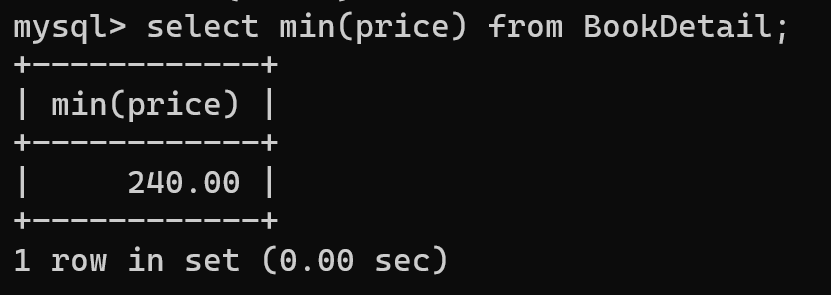
Q27) How many records are there in BookDetail table .

* 

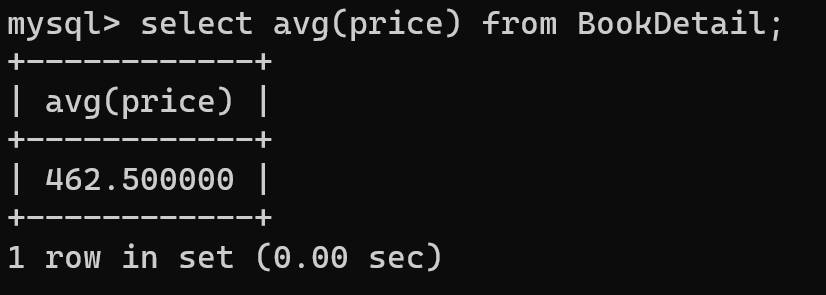
Q28) What is the highest price of the book from BookDetail table.

* 

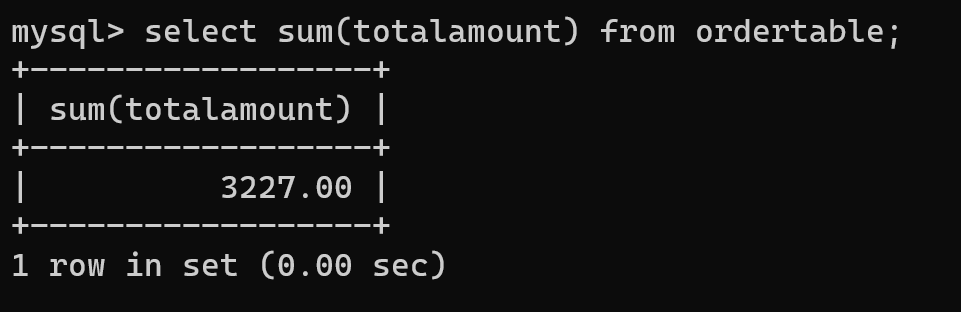
Q29) What is the lowest price of the book in the BookDetail table.

* 

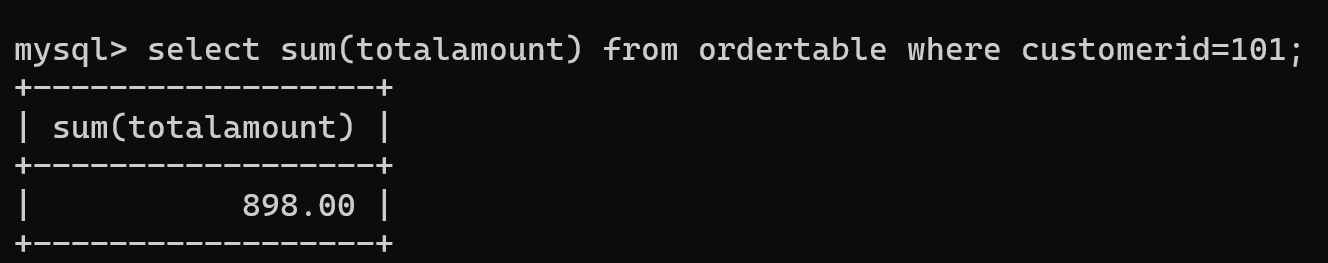
Q30) What is the average price of the book in the BookDetail table.

* 

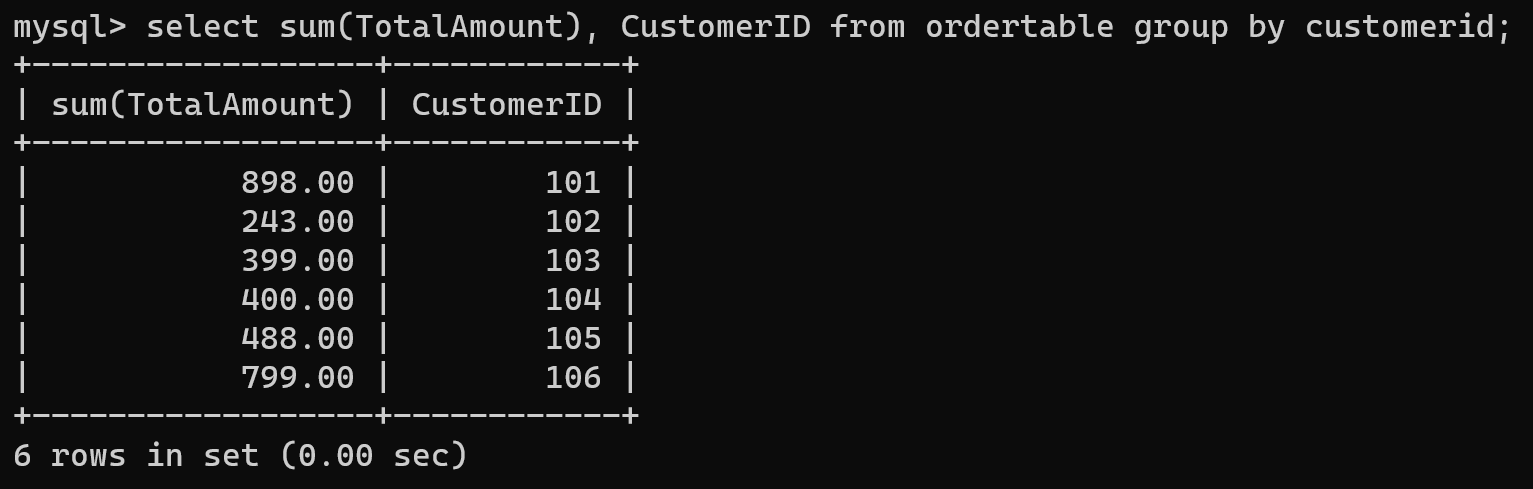
Q31) What Is the total sum of order amounts in the OrderTable?

* 

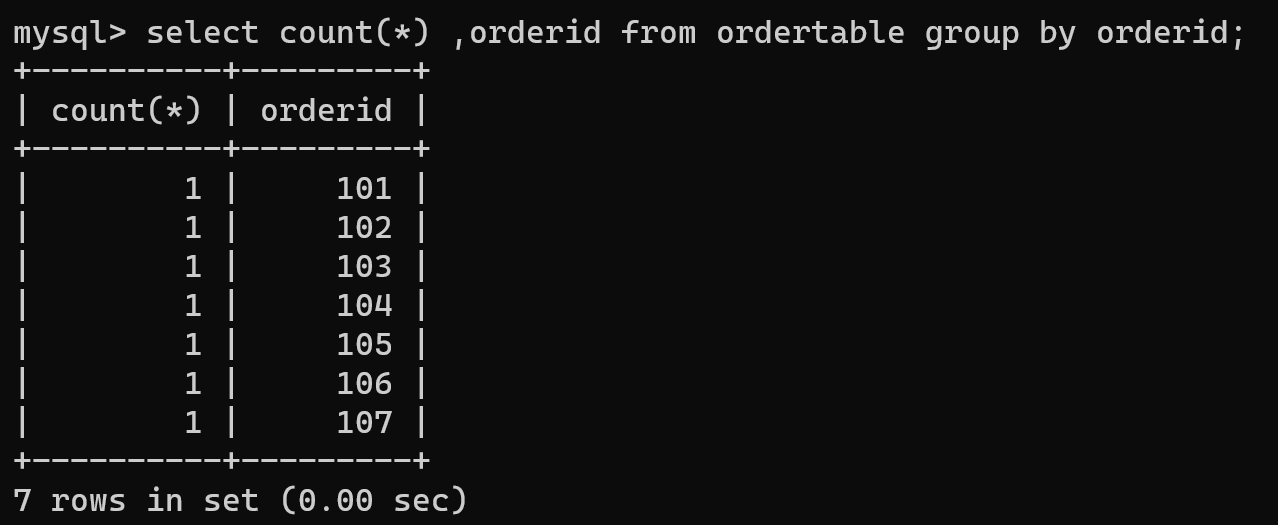
Q32) What is the total sum of order amounts for CustomerID 101 in the OrderTable?

* 
* **GROUP BY**

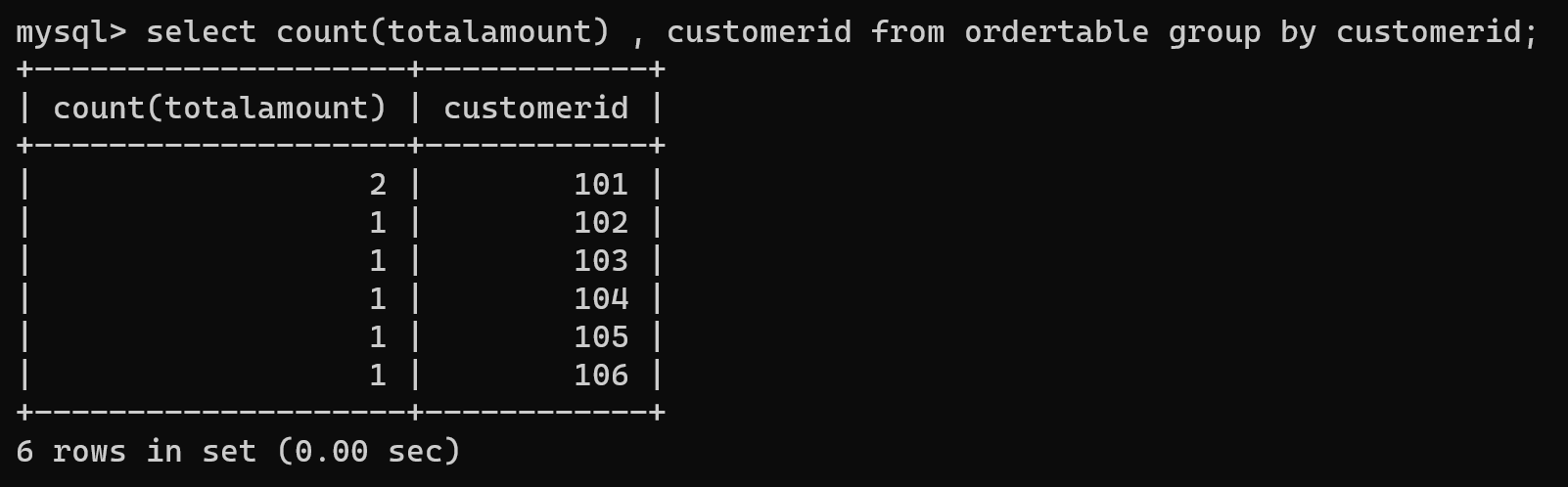
Q33) Display the customerID and total sum of order amount for each customer in the OrderTable .



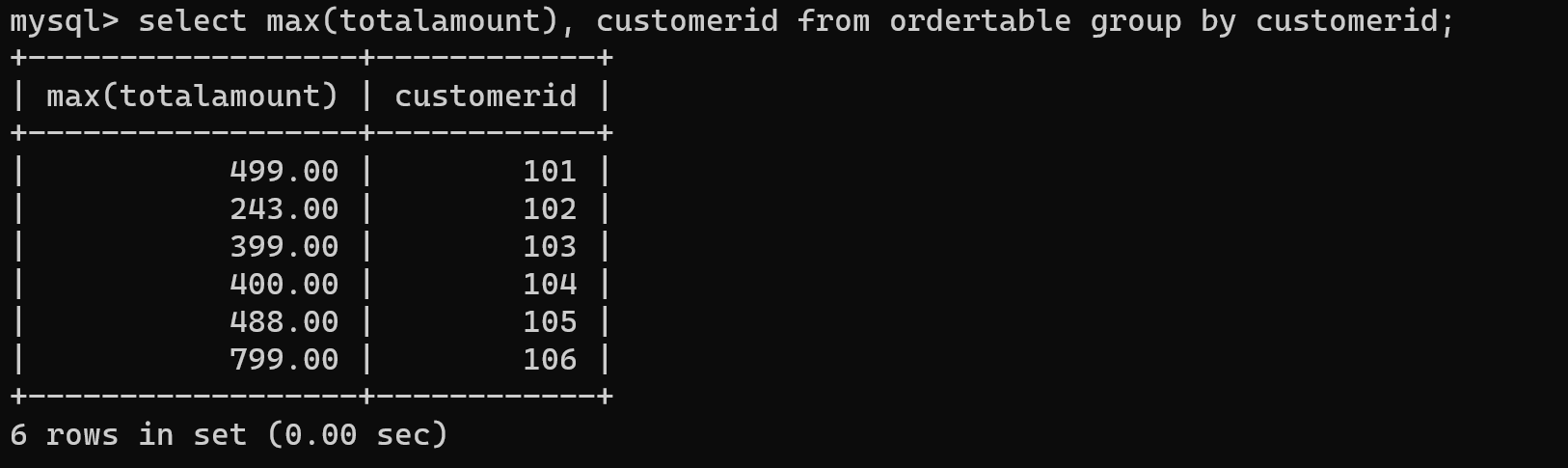
Q34) For each unique orderID in the OrderTable , display the count of orders associated with that orderID.

* 

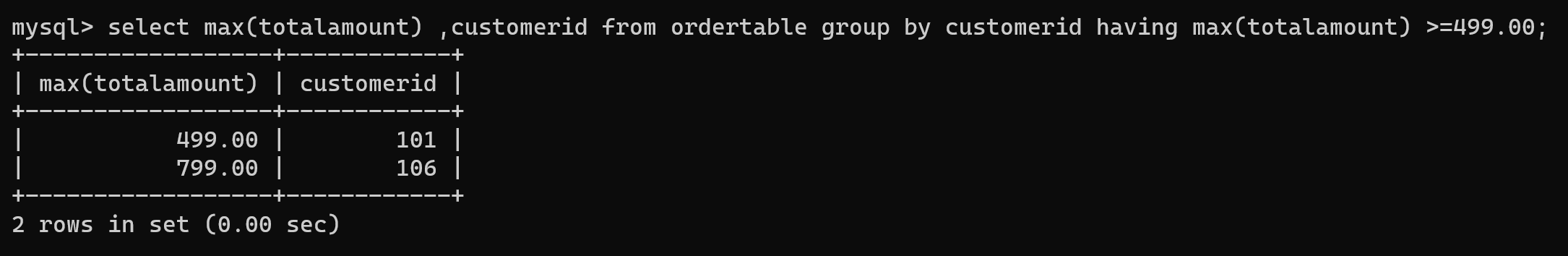
Q35) For each unique CustomerID in the OrderTable , display the count of order amounts associated with that customerID.

* 

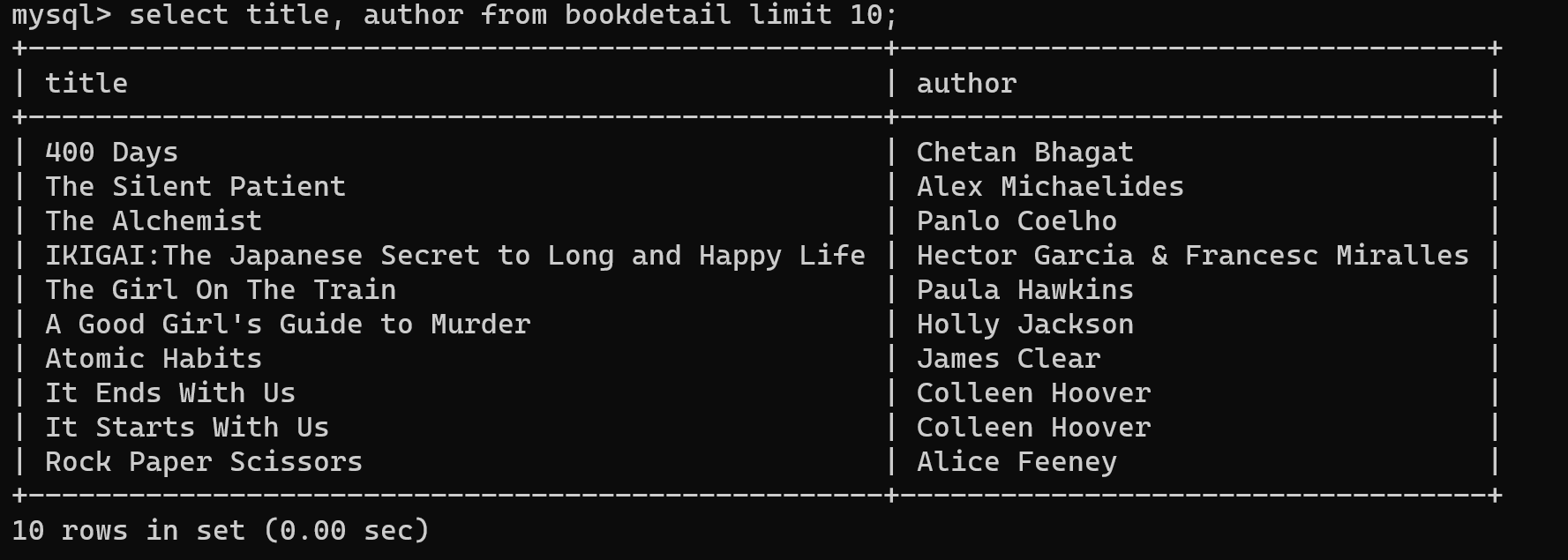
Q36) For each unique CustomerID in the OrderTable , display the maximum total order amounts associated with that customerID.

* 
* **HAVING CLAUSE**

Q37) For each unique CustomerID in the OrderTable , display the count of order amounts associated with that customerID, but only for customers whose maximum order amount is greater than or equal to 499

* 
* **LIMIT CLAUSE**

Q38) Retrieve the first 10 books with their titles and authors from the bookdetail table.

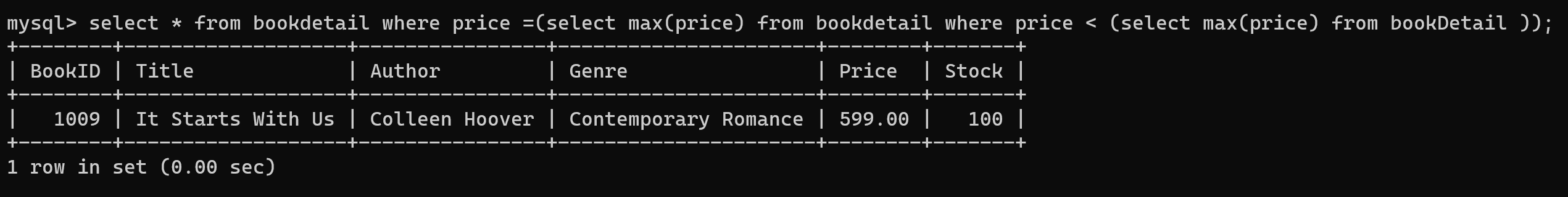
🡪 

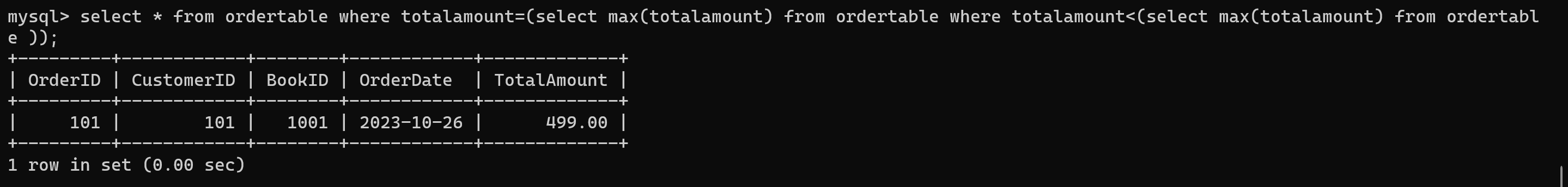
Q39) Retrieve the next 5 books with their titles and authors(skip the first 10 ) from the bookdetails table.

🡪 

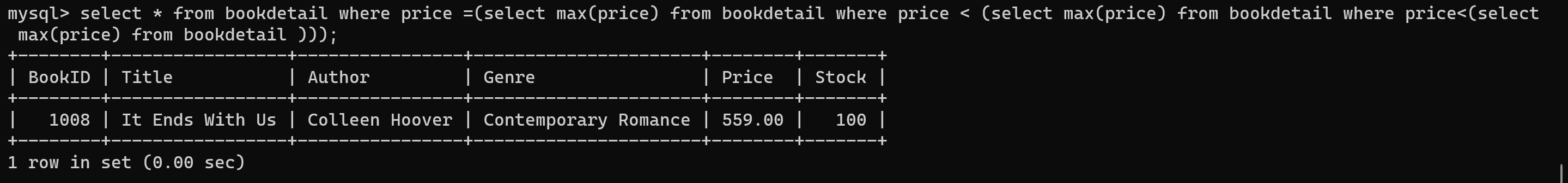
**NESTED**

Q40) Display the details of books in the bookdetail thable that have a price equal to the **2nd highest** price among all the books in the table.

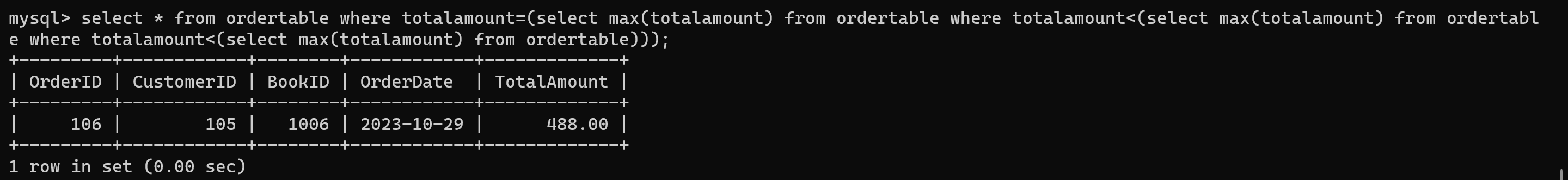
* 

Q41) Display the details of orders in the ordertable where the total order amount is equal to the 2nd highest total order amount among all the orders in the table 

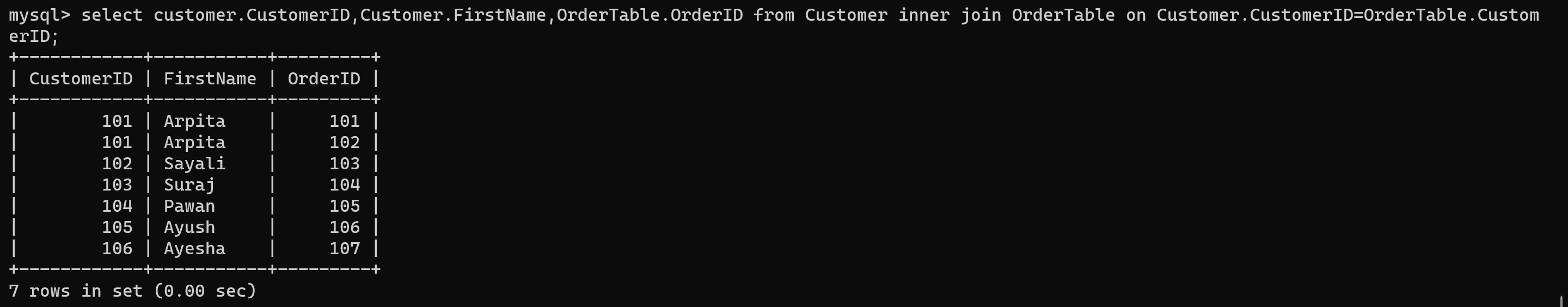
Q42) Display the details of books in the bookdetail table that have a price equal to the 3rd highest price among all the books in the table.

* 

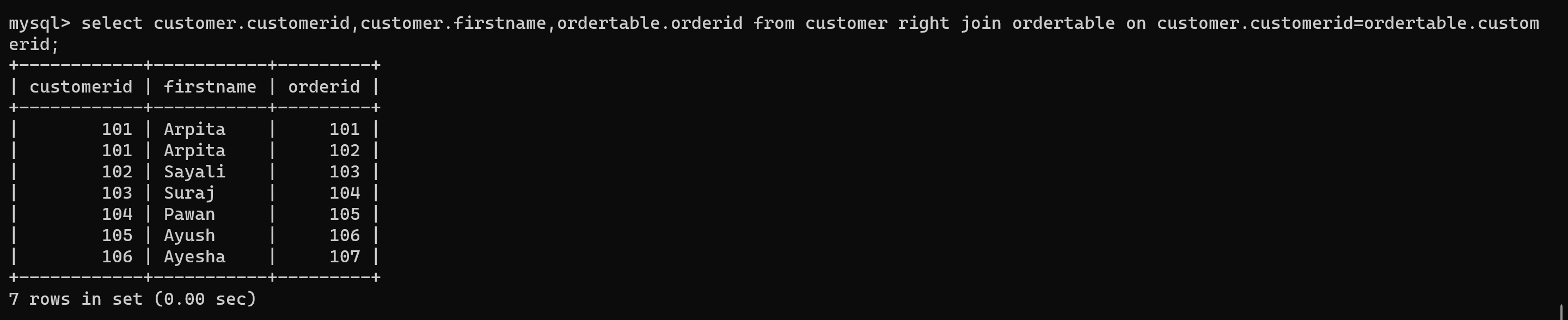
Q43) Display the details of orders in the ordertable where the total order amount is equal to the 3rdd highest total order amount among all the orders in the table.

* 
* **JOINING OF TABLE**

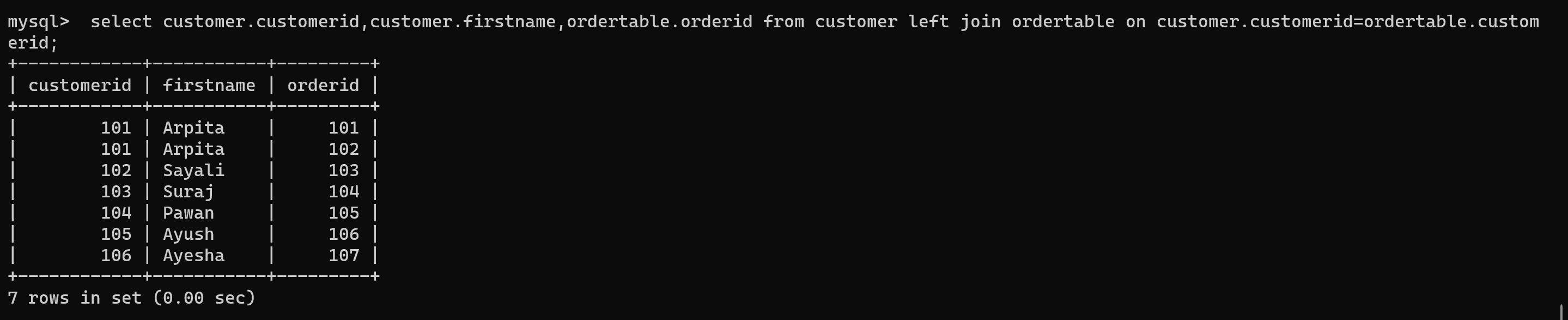
Q44) Inner join.

* 

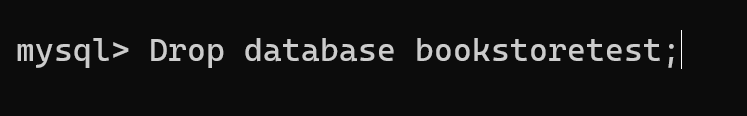
Q45) Right join.

* 

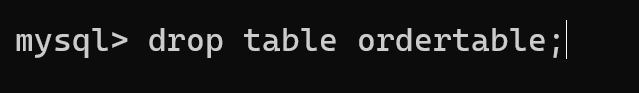
Q46) Left Join

* 
* **DROP**

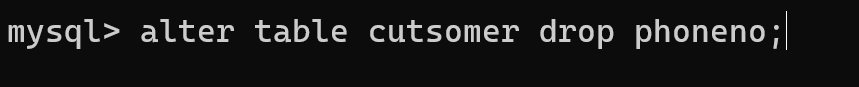
Q47) How to drop database.

* 

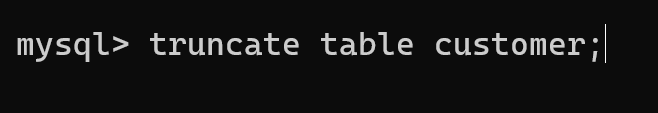
Q48) How to drop table.

* 

Q49) How to drop column.

* 
* **TRUNCATE**

Q50) How to truncate table.

* 
* **ER DIAGRAM**

Q51) ER Diagram .

