

1. Obtain information (editor id, editor first name, editor last name) of the editors who have edited the book whose ISBNCode is "067001690X".

Query : SELECT e.eid,e.fname,e.lname FROM editor as e INNER JOIN edited_by as eb ON eb.eid=e.eid WHERE eb.isbn='067001690X'

Server: Local Databases » Database: assignment » Table: editor

Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)

SELECT e.eid,e.fname,e.lname FROM editor as e INNER JOIN edited_by as eb ON eb.eid=e.eid WHERE eb.isbn='067001690X'

Number of rows: 25 Filter rows: Search this table

+ Options

	eid	fname	lname
<input type="checkbox"/>	e4	Robert	DeMott

Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

2. Retrieve the customers' names who bought novels. Order the result in the descending order of customer name. (Book type is novel).

Query : SELECT o.o_id,c.c_id,b.btype,c.c_name FROM order_book as ob INNER JOIN orders as o ON ob.o_id=o.o_id INNER JOIN customer as c ON c.c_id=o.c_id INNER JOIN book as b ON ob.isbn=b.isbn WHERE b.btype='Novel' ORDER BY c.c_name DESC

Server: Local Databases » Database: assignment » Table: editor

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.0036 seconds.) [c_name: JACK... - ALICE KAY...]

SELECT o.o_id,c.c_id,b.btype,c.c_name FROM order_book as ob INNER JOIN orders as o ON ob.o_id=o.o_id INNER JOIN customer as c ON c.c_id=o.c_id INNER JOIN book as b ON ob.isbn=b.isbn WHERE b.btype='Novel' ORDER BY c.c_name DESC

Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

o_id	c_id	btype	c_name
o2	c5	Novel	Jack
o3	c2	Novel	Harry
o1	c1	Novel	Alice Kay

Number of rows: 25 Filter rows: Search this table Sort by key: None

3. Get all publishers information (publisher name, address) which have published textbooks. If a publisher published more than one book, list the publisher only once in your result.

Query : `SELECT DISTINCT p.p_name,p.p_address FROM book as b INNER JOIN publisher as p ON p.p_id=b.p_id WHERE b.btype='Textbook' ORDER BY p.p_name ASC`

The screenshot shows a database management interface with the following components:

- Navigation Bar:** Includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, and Operations.
- Query Box:** Displays the SQL query: `SELECT DISTINCT p.p_name,p.p_address FROM book as b INNER JOIN publisher as p ON p.p_id=b.p_id WHERE b.btype='Textbook' ORDER BY p.p_name ASC`.
- Results Summary:** Shows "Showing rows 0 - 1 (2 total, Query took 0.0005 seconds.)" with the publisher names: HEINEMANN LIBRARY... - MCGRAW-HILL EDUCATION...
- Options Panel:** A table showing the results:

p_name	p_address
Heinemann Library	New York,USA
McGraw-Hill Education	USA
- Query results operations:** Includes buttons for Print, Copy to clipboard, Export, Display chart, and Create view.

4. Retrieve the author Id, author's first name, author's last name, and number of novel books written, if an author has written more than 2 novel books. Both sole-authoring and co-authoring activities should be considered as writing a book.

Query : `SELECT a.fname,a.lname, count(b.isbn) as count FROM written_by as wb INNER JOIN book as b ON wb.isbn=b.isbn INNER JOIN author as a ON wb.a_id=a.a_id WHERE b.btype='Novel' GROUP BY a.a_id`

The screenshot shows a database management interface with the following components:

- Navigation Bar:** Includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, and Triggers.
- Query Box:** Displays the SQL query: `SELECT a.fname,a.lname, count(b.isbn) as count FROM written_by as wb INNER JOIN book as b ON wb.isbn=b.isbn INNER JOIN author as a ON wb.a_id=a.a_id WHERE b.btype='Novel' GROUP BY a.a_id`.
- Results Summary:** Shows "Showing rows 0 - 3 (4 total, Query took 0.0030 seconds.)".
- Options Panel:** A table showing the results:

fname	lname	count
PARAG	PARIKH	1
John	Steinbeck	1
F. Scott	Fitzgerald	1
Jeff	Smith	2
- Query results operations:** Includes buttons for Profiling, Edit inline, Edit, Explain SQL, and Create view.

5. Get authors information (first name, last name) who has written the book 'Fundamentals of Database Systems'.

Query : `SELECT a.fname,a.lname,b.isbn FROM written_by as wb INNER JOIN author as a ON a.a_id=wb.a_id INNER JOIN book as b ON b.isbn=wb.isbn WHERE b.title='Fundamentals of Database Systems'`

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the query: `SELECT a.fname,a.lname,b.isbn FROM written_by as wb INNER JOIN author as a ON a.a_id=wb.a_id INNER JOIN book as b ON b.isbn=wb.isbn WHERE b.title='Fundamentals of Database Systems'`. The bottom pane shows the results of the query, which is a single row with the following data:

fname	lname	isbn
Ernest	Hemingway	0213432112

6. Get the books information (title, type and ISBN) written by author 'Jeff Smith'.

Query : `SELECT b.title,b.btype,b.isbn FROM author as a INNER JOIN written_by as wb ON wb.a_id=a.a_id INNER JOIN book as b ON b.isbn=wb.isbn WHERE a.fname='Jeff' and a.lname='Smith'`

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the query: `SELECT b.title,b.btype,b.isbn FROM author as a INNER JOIN written_by as wb ON wb.a_id=a.a_id INNER JOIN book as b ON b.isbn=wb.isbn WHERE a.fname='Jeff' and a.lname='Smith'`. The bottom pane shows the results of the query, which are two rows of data:

title	btype	isbn
Gone with the Wind	Novel	0446675539
The Grapes of Wrath	Novel	067001690X

7. Get information (publisher id, publisher name, phone) about publishers who have published more than 2 novels.

query : `SELECT p.p_name,p.p_address,p.p_phone FROM publisher as p INNER JOIN book as b ON b.p_id=p.p_id GROUP BY b.p_id HAVING COUNT(b.p_id)>2 ;`

The screenshot shows a database management interface with the following elements:

- Top navigation bar: Server: Local Databases » Database: assignment » Table: publisher
- Toolbar: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations
- Message bar: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available."
- Query status: "Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)"
- SQL query: `SELECT p.p_name,p.p_address,p.p_phone FROM publisher as p INNER JOIN book as b ON b.p_id=p.p_id GROUP BY b.p_id HAVING COUNT(b.p_id)>2`
- Row controls: "Show all", "Number of rows: 25", "Filter rows: Search this table"
- Options: + Options
- Table view:

p_name	p_address	p_phone
Penguin Books	UK	8524441545
- Row controls: "Show all", "Number of rows: 25", "Filter rows: Search this table"
- Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

8. Obtain the highest price of the books that are written by author "Jeff Smith". List the price.

query : `SELECT MAX(b.price) as price,b.title FROM book as b INNER JOIN written_by as wb ON b.isbn=wb.isbn INNER JOIN author as a ON a.a_id=wb.a_id WHERE a.fname='Jeff' and a.lname='Smith' GROUP BY b.isbn ORDER by b.price DESC LIMIT 1`

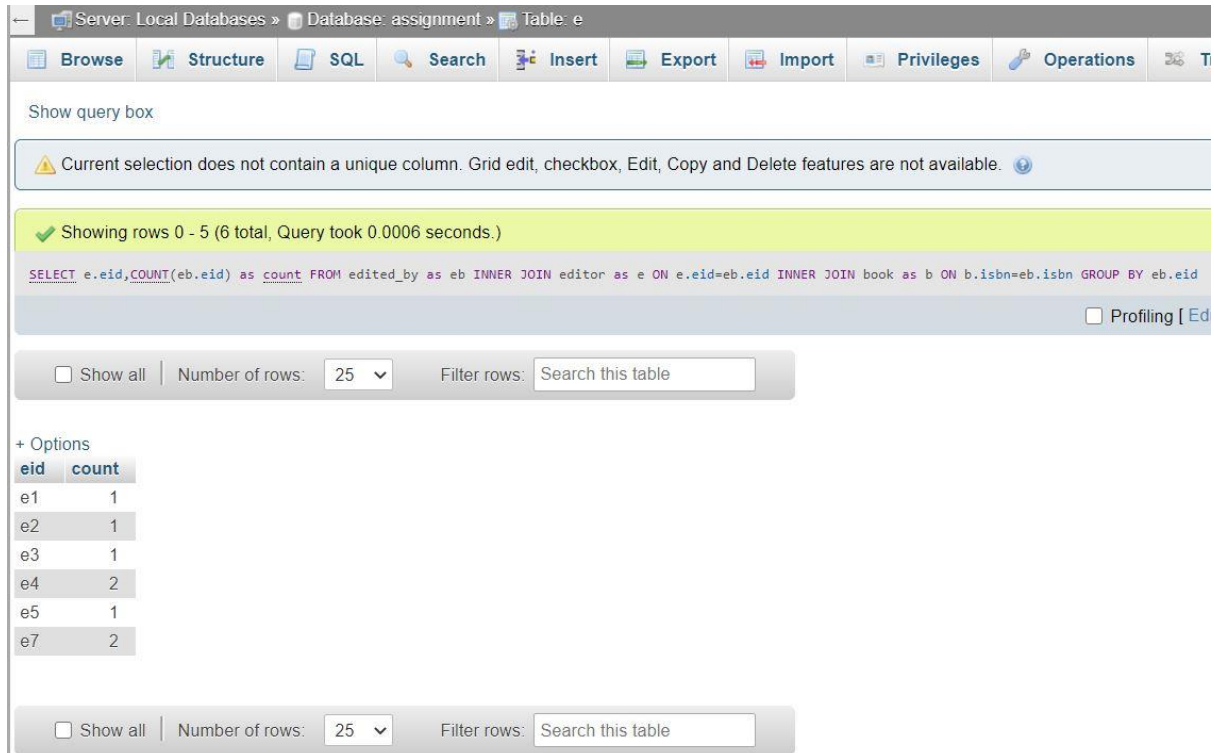
The screenshot shows a database management interface with the following elements:

- Top navigation bar: Server: Local Databases » Database: assignment » Table: book
- Toolbar: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Triggers
- Message bar: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available."
- Query status: "Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)"
- SQL query: `SELECT MAX(b.price) as price,b.title FROM book as b INNER JOIN written_by as wb ON b.isbn=wb.isbn INNER JOIN author as a ON a.a_id=wb.a_id WHERE a.fname='Jeff' and a.lname='Smith' GROUP BY b.isbn ORDER by b.price DESC LIMIT 1`
- Row controls: "Show all", "Number of rows: 25", "Filter rows: Search this table"
- Options: + Options
- Table view:

price	title
41.83	Gone with the Wind
- Row controls: "Show all", "Number of rows: 25", "Filter rows: Search this table"
- Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

9. List the editor Id and number of books edited, if the editor has edited more than 2 books. Both sole-editing and co-editing activities should be considered as editing a book.

Query : `SELECT e.eid,COUNT(eb.eid) as count FROM edited_by as eb INNER JOIN editor as e ON e.eid=eb.eid INNER JOIN book as b ON b.isbn=eb.isbn GROUP BY eb.eid`



Server: Local Databases » Database: assignment » Table: e

Browse Structure SQL Search Insert Export Import Privileges Operations

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 5 (6 total, Query took 0.0006 seconds.)

```
SELECT e.eid,COUNT(eb.eid) as count FROM edited_by as eb INNER JOIN editor as e ON e.eid=eb.eid INNER JOIN book as b ON b.isbn=eb.isbn GROUP BY eb.eid
```

☐ Profiling [Edit]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

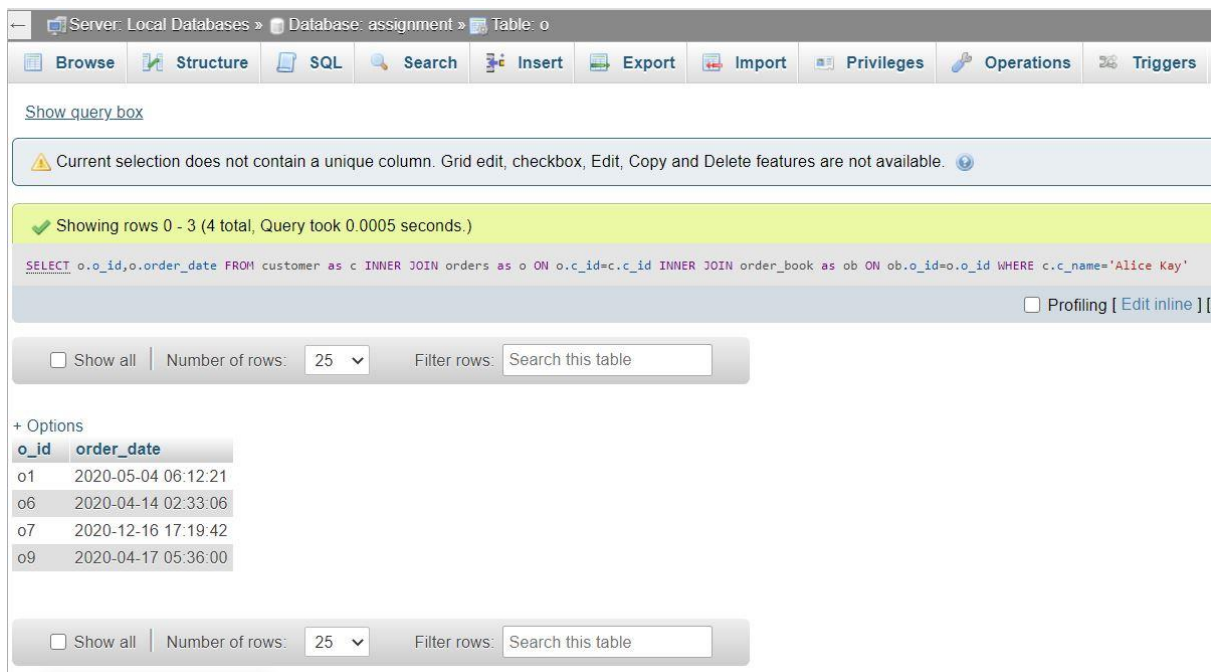
+ Options

eid	count
e1	1
e2	1
e3	1
e4	2
e5	1
e7	2

☐ Show all | Number of rows: 25 | Filter rows: Search this table

10. List all orders (order_id, order date) that ordered by customer named “Alice Kay”;

Query : `SELECT o.o_id,o.order_date FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id WHERE c.c_name='Alice Kay'`



Server: Local Databases » Database: assignment » Table: o

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 3 (4 total, Query took 0.0005 seconds.)

```
SELECT o.o_id,o.order_date FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id WHERE c.c_name='Alice Kay'
```

☐ Profiling [Edit inline]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

o_id	order_date
o1	2020-05-04 06:12:21
o6	2020-04-14 02:33:06
o7	2020-12-16 17:19:42
o9	2020-04-17 05:36:00

☐ Show all | Number of rows: 25 | Filter rows: Search this table

11. List all books (ISBN, title, price) that are ordered by customer named “Alice Kay”. If she ordered the same book more than once or more than one copy, please only display the book once in the result. Order the result by book title in ascending order.

Query : `SELECT b.isbn,b.title,b.price FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id INNER JOIN book as b ON b.isbn=ob.isbn WHERE c.c_name='Alice Kay' ORDER BY b.title ASC;`

The screenshot shows a database management interface with a query window. The query executed is: `SELECT b.isbn,b.title,b.price FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id INNER JOIN book as b ON b.isbn=ob.isbn WHERE c.c_name='Alice Kay' ORDER BY b.title ASC;` The results are displayed in a table with 4 rows.

isbn	title	price
0213432112	Fundamentals of Database Systems	2.60
0446675539	Gone with the Wind	41.83
0142000671	Of Mice and Men	20.05
0142000777	STOCKS TO RICHES	10.90

12. List all the orders (order_no, order date) that include “Fundamentals of Database Systems”.

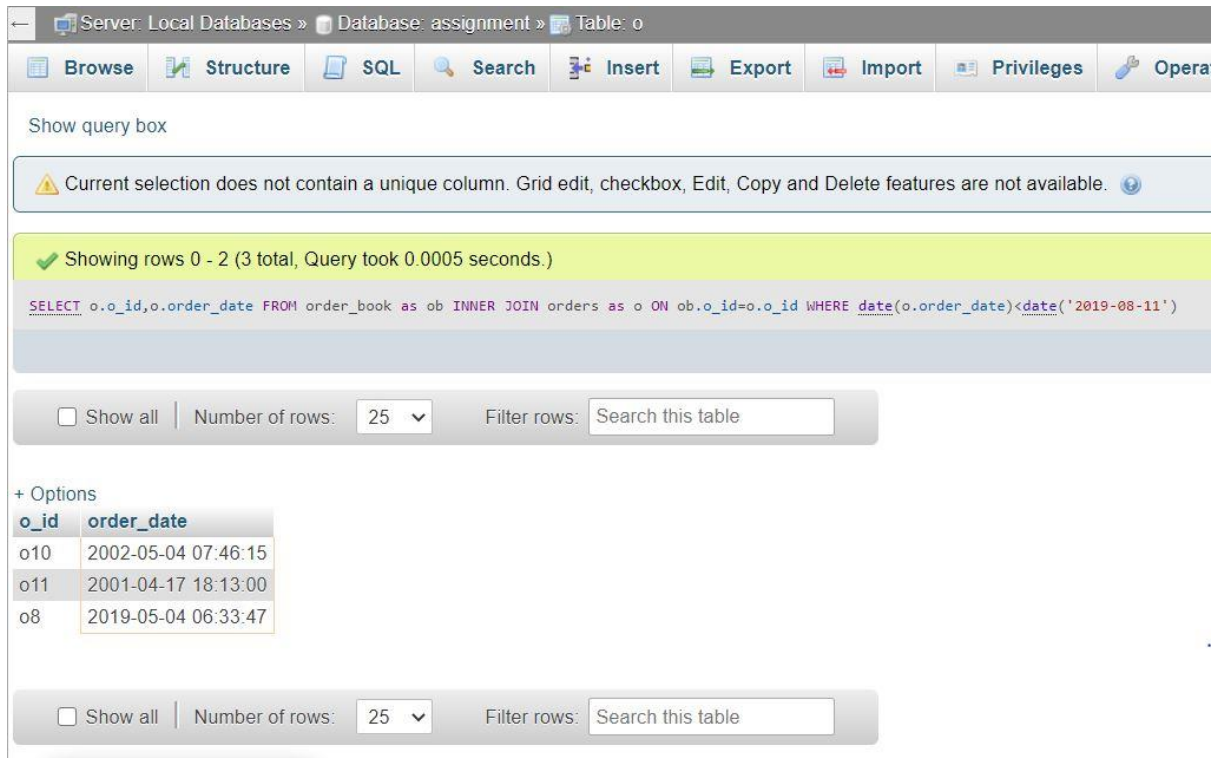
Query : `SELECT o.o_id,o.order_date FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id INNER JOIN book as b ON b.isbn=ob.isbn WHERE b.title='Fundamentals of Database Systems'`

The screenshot shows a database management interface with a query window. The query executed is: `SELECT o.o_id,o.order_date FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id INNER JOIN book as b ON b.isbn=ob.isbn WHERE b.title='Fundamentals of Database Systems'` The results are displayed in a table with 5 rows.

o_id	order_date
o10	2002-05-04 07:46:15
o11	2001-04-17 18:13:00
o5	2020-12-01 07:33:15
o8	2019-05-04 06:33:47
o9	2020-04-17 05:36:00

13. List how many orders are placed before “2019-08-11”.

Query : `SELECT o.o_id,o.order_date FROM order_book as ob INNER JOIN orders as o ON ob.o_id=o.o_id WHERE date(o.order_date)<date('2019-08-11');`



Server: Local Databases » Database: assignment » Table: o

Browser Structure SQL Search Insert Export Import Privileges Operations

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)

```
SELECT o.o_id,o.order_date FROM order_book as ob INNER JOIN orders as o ON ob.o_id=o.o_id WHERE date(o.order_date)<date('2019-08-11')
```

☐ Show all | Number of rows: 25 | Filter rows: Search this table

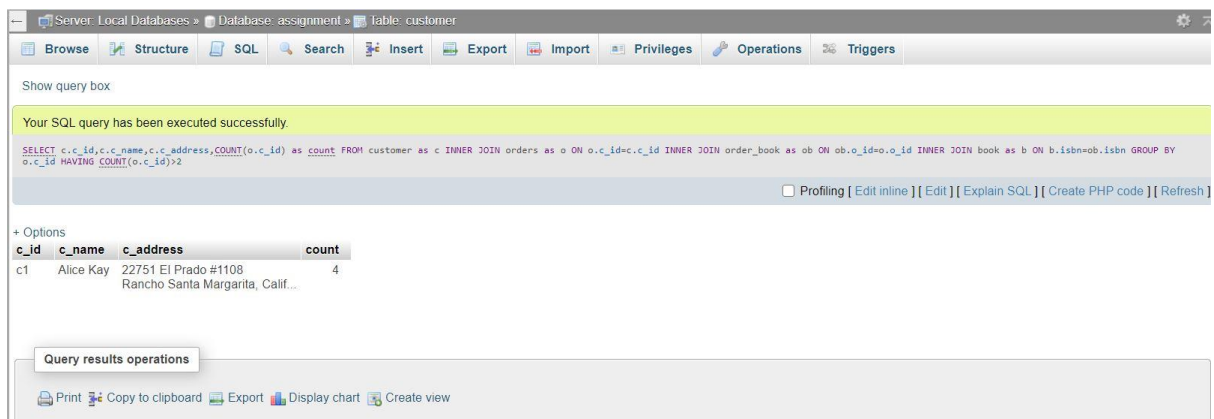
+ Options

o_id	order_date
o10	2002-05-04 07:46:15
o11	2001-04-17 18:13:00
o8	2019-05-04 06:33:47

☐ Show all | Number of rows: 25 | Filter rows: Search this table

14. For customers who had made more than 2 orders so far, list customer Id, customer name, and number of orders that the customer has made.

query : `SELECT c.c_id,c.c_name,c.c_address,COUNT(o.c_id) as count FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id INNER JOIN book as b ON b.isbn=ob.isbn GROUP BY o.c_id HAVING COUNT(o.c_id)>2`



Server: Local Databases » Database: assignment » Table: customer

Browser Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

Your SQL query has been executed successfully.

```
SELECT c.c_id,c.c_name,c.c_address,COUNT(o.c_id) as count FROM customer as c INNER JOIN orders as o ON o.c_id=c.c_id INNER JOIN order_book as ob ON ob.o_id=o.o_id INNER JOIN book as b ON b.isbn=ob.isbn GROUP BY o.c_id HAVING COUNT(o.c_id)>2
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

+ Options

c_id	c_name	c_address	count
c1	Alice Kay	22751 El Prado #1108 Rancho Santa Margarita, Calif...	4

Query results operations

Print Copy to clipboard Export Display chart Create view

15. Retrieve book (or books) that has(have) the highest price among all books. Please list book title and price

Query : `SELECT max(b.price) as price, b.title FROM book as b GROUP by b.isbn ORDER BY b.price DESC LIMIT 1`

The screenshot shows a database management tool interface. At the top, there's a breadcrumb navigation: "Server: Local Databases » Database: assignment » Table: book". Below this is a toolbar with icons for "Browse", "Structure", "SQL", "Search", "Insert", "Export", "Import", "Privileges", and "Operations". A "Show query box" link is present. A warning message states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a green status bar indicates: "Showing rows 0 - 0 (1 total, Query took 0.0005 seconds.)". The SQL query is displayed in a text box: `SELECT max(b.price) as price, b.title FROM book as b GROUP by b.isbn ORDER BY b.price DESC LIMIT 1`. Under the "+ Options" section, a table displays the query results with columns "price" and "title". The first row shows the value "86.60" for price and "The Great Gatsby" for title. At the bottom, a "Query results operations" section contains links for "Print", "Copy to clipboard", "Export", "Display chart", and "Create view".

price	title
86.60	The Great Gatsby