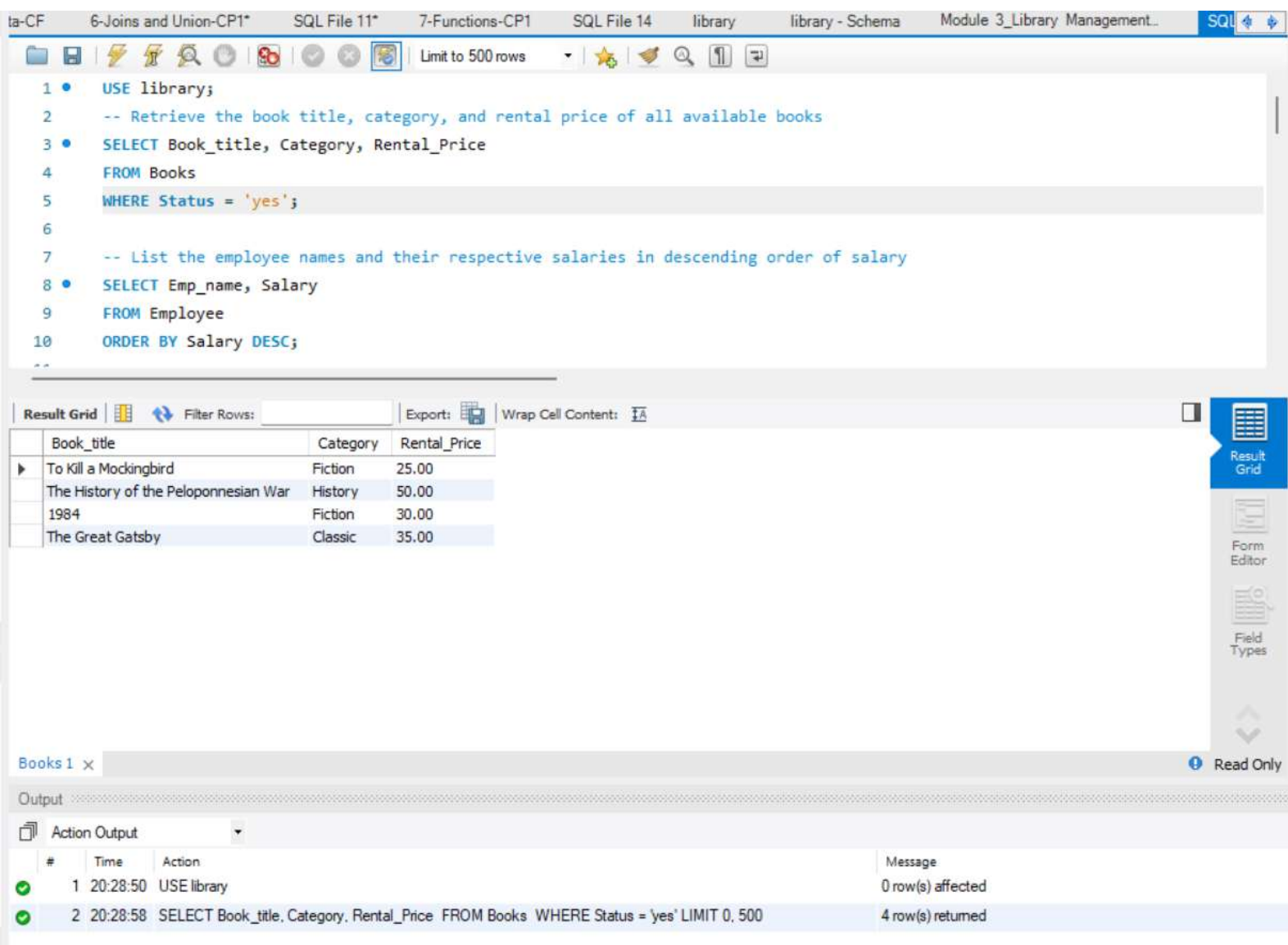


Example Execution



The screenshot displays a SQL IDE interface with a query editor, a result grid, and an output pane.

Query Editor:

```
1 • USE library;
2 -- Retrieve the book title, category, and rental price of all available books
3 • SELECT Book_title, Category, Rental_Price
4 FROM Books
5 WHERE Status = 'yes';
6
7 -- List the employee names and their respective salaries in descending order of salary
8 • SELECT Emp_name, Salary
9 FROM Employee
10 ORDER BY Salary DESC;
```

Result Grid:

	Book_title	Category	Rental_Price
▶	To Kill a Mockingbird	Fiction	25.00
	The History of the Peloponnesian War	History	50.00
	1984	Fiction	30.00
	The Great Gatsby	Classic	35.00

Output:

Books 1 × Read Only

Output

Action Output

#	Time	Action	Message
✓ 1	20:28:50	USE library	0 row(s) affected
✓ 2	20:28:58	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 500	4 row(s) returned

```

4 FROM Books
5 WHERE Status = 'yes';
6
7 -- List the employee names and their respective salaries in descending order of salary
8 • SELECT Emp_name, Salary
9 FROM Employee
10 ORDER BY Salary DESC;
11
12 -- Retrieve the book titles and the corresponding customers who have issued those books
13 • SELECT i.Issued_book_name, c.Customer_name

```

Result Grid Filter Rows: Exports: Wrap Cell Content: [F1](#)

	Emp_name	Salary
▶	John Doe	75000.00
	Sarah Smith	72000.00
	Michael Johnson	68000.00
	Olivia Wilson	52000.00
	Emma Davis	45000.00
	David Brown	35000.00

Result Grid

Form Editor

Field Types

Employee 2 x Read Only

Output

#	Time	Action	Message
✓ 2	20:28:58	SELECT Book_title, Category, Rental_Price FROM Books WHERE Status = 'yes' LIMIT 0, 500	4 row(s) returned
✓ 3	20:30:13	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 500	6 row(s) returned

```
10 ORDER BY Salary DESC;
11
12 -- Retrieve the book titles and the corresponding customers who have issued those books
13 • SELECT i.Issued_book_name, c.Customer_name
14 FROM IssueStatus i
15 JOIN Customer c ON i.Issued_cust = c.Customer_Id;
16
17 -- Display the total count of books in each category
18 • SELECT Category, COUNT(*) AS Total_Books
19 FROM Books
20 GROUP BY Category;
```

	Issued_book_name	Customer_name
1984		Bob Williams
To Kill a Mockingbird		Charlie Brown
Fahrenheit 451		Daniel Lee

Result 3

Output

Action Output

#	Time	Action	Message
3	20:30:13	SELECT Emp_name, Salary FROM Employee ORDER BY Salary DESC LIMIT 0, 500	6 row(s) returned
4	20:30:38	SELECT i.Issued_book_name, c.Customer_name FROM IssueStatus i JOIN Customer c ON i.Issued_cust = ...	3 row(s) returned


```

25 WHERE Salary > 50000;
26
27 -- List the customer names who registered before 2022-01-01 and have not issued any books yet
28 • SELECT Customer_name
29 FROM Customer
30 WHERE Reg_date < '2022-01-01'
31 AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
32
33 -- Display the branch numbers and the total count of employees in each branch
34 • SELECT Branch_no, COUNT(*) AS Employee_Count

```

Result Grid Filter Rows: Export: Wrap Cell Content:

	Customer_name
▶	Alice Johnson
	Emily Clark

Result Grid

Form Editor

Field Types

Customer 6 x Read Only

Output

#	Time	Action	Message
6	20:31:16	SELECT Emp_name, Position FROM Employee WHERE Salary > 50000 LIMIT 0, 500	4 row(s) returned
7	20:31:38	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (S...	2 row(s) returned

```
28 • SELECT Customer_name
29 FROM Customer
30 WHERE Reg_date < '2022-01-01'
31 AND Customer_Id NOT IN (SELECT Issued_cust FROM IssueStatus);
32
33 -- Display the branch numbers and the total count of employees in each branch
34 • SELECT Branch_no, COUNT(*) AS Employee_Count
35 FROM Employee
36 GROUP BY Branch_no;
37
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Branch_no	Employee_Count		
▶	1	2		
	2	2		
	3	2		

Result Grid

Form Editor

Field Types

Result 7 x Read Only

Output			
Action Output			
#	Time	Action	Message
7	20:31:38	SELECT Customer_name FROM Customer WHERE Reg_date < '2022-01-01' AND Customer_Id NOT IN (S...	2 row(s) returned
8	20:31:59	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY Branch_no LIMIT 0, 500	3 row(s) returned


```

37
38 -- Display the names of customers who have issued books in the month of June 2023
39 • SELECT DISTINCT c.Customer_name
40 FROM Customer c
41 JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust
42 WHERE i.Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
43
44 -- Retrieve book_title from books table containing 'history'
45 • SELECT Book_title
46 FROM Books

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Customer_name
▶	Bob Williams
	Charlie Brown
	Daniel Lee

Result Grid

Result 8 x Read Only

Output				
Action Output				
#	Time	Action	Message	
8	20:31:59	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY Branch_no LIMIT 0, 500	3 row(s) returned	
9	20:32:20	SELECT DISTINCT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_...	3 row(s) returned	

Limit to 500 rows

```
42 WHERE i.Issue_date BETWEEN '2023-06-01' AND '2023-06-30';
43
44 -- Retrieve book_title from books table containing 'history'
45 • SELECT Book_title
46 FROM Books
47 WHERE Book_title LIKE '%history%';
48
49 -- Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
50 • SELECT Branch_no, COUNT(*) AS Employee_Count
51 FROM Employee
52 GROUP BY Branch_no;
```

Result Grid Filter Rows: Export: Wrap Cell Content: [IA](#)

Book_title
The History of the Peloponnesian War

Result Grid

Form Editor

Field Types

Books 9 x

Read Only

Output

Action Output

#	Time	Action	Message
9	20:32:20	SELECT DISTINCT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_...	3 row(s) returned
10	20:32:44	SELECT Book_title FROM Books WHERE Book_title LIKE "%history%" LIMIT 0, 500	1 row(s) returned


```

49  -- Retrieve the branch numbers along with the count of employees for branches having more than 5 employees
50  • SELECT Branch_no, COUNT(*) AS Employee_Count
51  FROM Employee
52  GROUP BY Branch_no
53  HAVING Employee_Count > 5;
54
55  -- Retrieve the names of employees who manage branches and their respective branch addresses
56  • SELECT e.Emp_name, b.Branch_address
57  FROM Employee e
58  JOIN Branch b ON e.Emp_Id = b.Manager_Id;

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Emp_name	Branch_address			
John Doe	Downtown Library, City Center			
Sarah Smith	Westside Library, 5th Avenue			
Michael Johnson	Eastside Library, Main Street			

Result 11 x Read Only

Output			
Action Output			
#	Time	Action	Message
✓ 11	20:33:06	SELECT Branch_no, COUNT(*) AS Employee_Count FROM Employee GROUP BY Branch_no HAVING E...	0 row(s) returned
✓ 12	20:33:29	SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e.Emp_Id = b.Manager_Id...	3 row(s) returned

```
56 • SELECT e.Emp_name, b.Branch_address
57 FROM Employee e
58 JOIN Branch b ON e.Emp_Id = b.Manager_Id;
59
60 -- Display the names of customers who have issued books with a rental price higher than Rs. 25
61 • SELECT DISTINCT c.Customer_name
62 FROM Customer c
63 JOIN IssueStatus i ON c.Customer_Id = i.Issued_cust
64 JOIN Books b ON i.Isbn_book = b.ISBN
65 WHERE b.Rental Price > 25;
```

Customer_name
Bob Williams
Daniel Lee

Output

Action Output

#	Time	Action	Message
12	20:33:29	SELECT e.Emp_name, b.Branch_address FROM Employee e JOIN Branch b ON e.Emp_Id = b.Manager_Id...	3 row(s) returned
13	20:33:57	SELECT DISTINCT c.Customer_name FROM Customer c JOIN IssueStatus i ON c.Customer_Id = i.Issued_...	2 row(s) returned