Module 3: Library Management System

51 • SHOW TABLES; 52 Result Grid | Filter Rows: Tables_in_library books branch customer employee issuestatus

returnstatus

F	tesult Grid	🔢 🙌 Filte	er Rows:	Edit:
Г	Branch_	no Manager	id Branch_addres	cs Contact_no
•	101	1	Main Street, Cit	y A 9876543210
	102	2	Elm Road, City I	B 8765432109
	103	3	Oak Avenue, Ci	ty C 7654321098
	104	4	Maple Lane, Cit	y D 6543210987
	NULL	NULL	NULL	NULL
	Emm id	C	Desition Color	Deanch as

	Emp_id	Emp_name	Position	Salary	Branch_no
١	1	John Smith	Manager	75000	101
	2	Mary Johnson	Manager	72000	102
	3	Robert Brown	Manager	70000	103
	4	Linda Davis	Manager	68000	104
	5	James Wilson	Assistant	45000	101
	6	Karen Miller	Librarian	55000	102
	7	David Moore	Assistant	48000	103
	8	Susan Taylor	Librarian	52000	104
	9	George King	Assistant	46000	101
	10	Henry Queen	Clerk	40000	101
	11	Lucy Prince	Assistant	47000	101
	12	Michael Bishop	Clerk	41000	101
	13	Emma Duke	Assistant	49000	101
	14	Sophia Baron	Assistant	45000	102
	15	Olivia Count	Clerk	42000	102
	16	Liam Marquess	Assistant	44000	102
	17	Mia Earl	Assistant	43000	102
	18	Noah Knight	Clerk	40000	102
	NULL	NULL	NULL	NULL	HULL

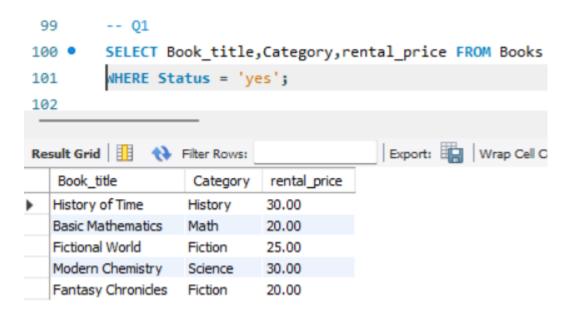
ISBN	Book_title	Category	Rental_price	Status	Author	Publisher
1001	History of Time	History	30.00	yes	Stephen Hawking	Penguin Books
1002	Advanced Physics	Science	40.00	no	Albert Einstein	Springer
1003	Basic Mathematics	Math	20.00	yes	John Doe	McGraw Hill
1004	Fictional World	Fiction	25.00	yes	Jane Austen	Oxford Press
1005	World History	History	35.00	no	Eric Hobsbawm	Cambridge Press
1006	Modern Chemistry	Science	30.00	yes	Linus Pauling	Wiley
1007	The Art of Coding	Tech	50.00	no	Alan Turing	MIT Press
1008	Fantasy Chronides	Fiction	20.00	yes	J.K. Rowling	Bloomsbury
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Customer_id	Customer_name	Customer_address	Reg_date
201	Alice Green	10 Main Street	2021-10-01
202	Bob White	15 Elm Road	2022-05-20
203	Charlie Black	25 Oak Avenue	2023-01-15
204	Daisy Blue	30 Maple Lane	2021-12-10
205	Eve Red	12 Hill Street	2020-07-25
NULL	NULL	NULL	NULL

Issue_id	Issued_cust	Issued_book_name	Issue_date	Isbn_book
301	201	History of Time	2023-06-05	1001
302	202	World History	2023-06-10	1005
303	203	Advanced Physics	2023-07-01	1002
304	201	The Art of Coding	2023-06-20	1007
HULL	NULL	NULL	NULL	NULL

Return_id	Return_cust	Return_book_name	Return_date	Isbn_book2
401	201	History of Time	2023-07-01	1001
402	202	World History	2023-07-10	1005
403 NULL	203 NULL	Advanced Physics	2023-08-01	1002 NULL

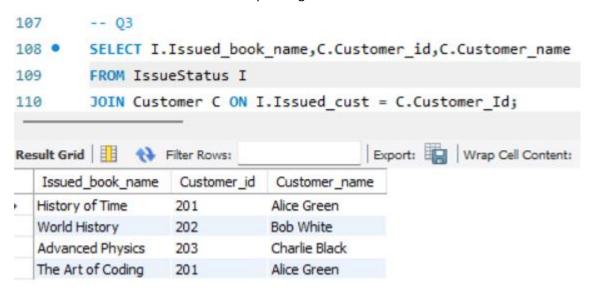
1. Retrieve the book title, category, and rental price of all available books.



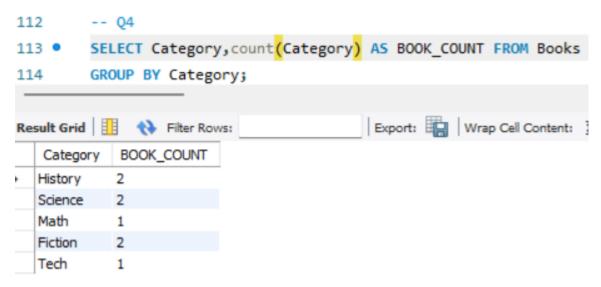
2. List the employee names and their respective salaries in descending order of salary.

```
103
          -- Q2
          SELECT Emp_name, salary FROM Employee
104 •
          ORDER BY salary DESC;
105
106
Result Grid
                                                 Export:
                Filter Rows:
   Emp_name
                  salary
   John Smith
                 75000
   Mary Johnson
                 72000
   Robert Brown
                 70000
   Linda Davis
                 68000
   Karen Miller
                 55000
   Susan Taylor
                 52000
   David Moore
                 48000
   James Wilson
                 45000
```

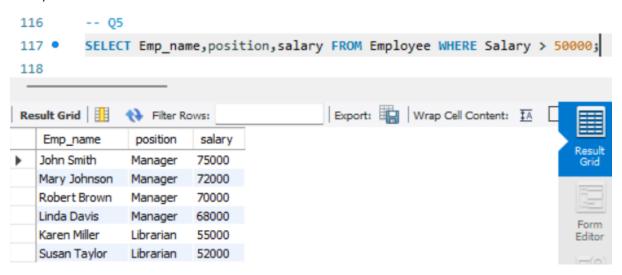
3. Retrieve the book titles and the corresponding customers who have issued those books.



4. Display the total count of books in each category.



5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.



6. List the customer names who registered before 2022-01-01 and have not issued any books yet.

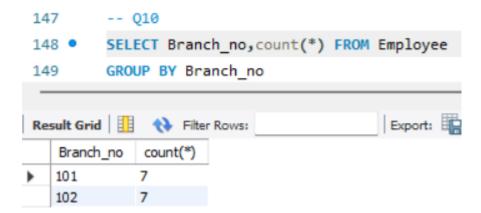
7. Display the branch numbers and the total count of employees in each branch.

```
124
        -- Q7
         SELECT Branch_no,count(*) FROM Employee
125 •
126
         GROUP BY Branch_no;
127
 Result Grid
                Filter Rows:
     Branch_no
               count(*)
               7
    101
    102
               7
    103
               2
    104
```

8. Display the names of customers who have issued books in the month of June 2023.

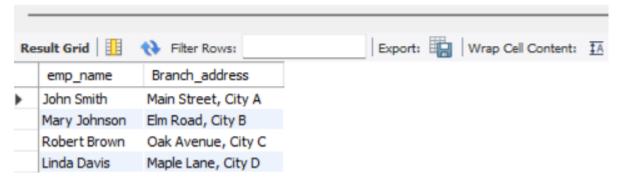
9. Retrieve book_title from book table containing history.

10.Retrieve the branch numbers along with the count of employees for branches having more than 5 employees



11. Retrieve the names of employees who manage branches and their respective branch addresses.

```
152 -- Q11
153 • SELECT E.emp_name, B.Branch_address
154 FROM Employee E Join Branch B ON E.emp_id = B.manager_id;
```



12. Display the names of customers who have issued books with a rental price higher than Rs. 25.

```
156
        -- 012
        SELECT C.customer_name, B.Book_title, B.Rental_price FROM Customer C
157 •
        JOIN IssueStatus I ON C.Customer_id = I.Issued_cust JOIN Books B ON I.Isbn_book = B.ISBN
158
        WHERE Rental price > 25;
Export: Wrap Cell Content: IA
   customer_name Book_title
                               Rental_price
  Alice Green
                History of Time
                               30.00
               Advanced Physics
                               40.00
  Charlie Black
  Bob White
                World History
                               35.00
  Alice Green
              The Art of Coding 50.00
```