

Q1. Retrieve All Books Issued by a Specific Employee.

Objective: Select all books issued by the employee with emp_id = 'E101'.

| | issued_id | issued_member_id | issued_book_name | issued_date | issued_book_isbn | issued_emp_id |
|---|-----------|------------------|-----------------------|-------------|-------------------|---------------|
| ▶ | IS130 | C106 | Moby Dick | 2024-04-03 | 978-0-451-52994-2 | E101 |
| | IS131 | C106 | To Kill a Mockingbird | 2024-04-04 | 978-0-06-112008-4 | E101 |

Q2. List Members Who Have Issued More Than One Book.

Objective: Use GROUP BY to find members who have issued more than one book.

| | issued_member_id |
|---|------------------|
| ▶ | C105 |
| | C106 |
| | C107 |
| | C108 |
| | C109 |
| | C110 |

Q3. Create Summary Tables: Used CTAS to generate new tables based on query results - each book and total book issued count.

| | isbn | book_title | issued_count |
|---|-------------------|-----------------------------------|--------------|
| ▶ | 978-0-06-025492-6 | Where the Wild Things Are | 1 |
| | 978-0-06-112008-4 | To Kill a Mockingbird | 1 |
| | 978-0-06-112241-5 | The Kite Runner | 1 |
| | 978-0-06-440055-8 | Charlotte's Web | 1 |
| | 978-0-09-957807-9 | A Game of Thrones | 1 |
| | 978-0-14-027526-3 | A Tale of Two Cities | 1 |
| | 978-0-14-044930-3 | The Histories | 1 |
| | 978-0-14-118776-1 | One Hundred Years of Solitude | 1 |
| | 978-0-14-143951-8 | Pride and Prejudice | 1 |
| | 978-0-141-44171-6 | Jane Eyre | 1 |
| | 978-0-19-280551-1 | The Guns of August | 1 |
| | 978-0-307-37840-1 | The Alchemist | 1 |
| | 978-0-307-58837-1 | Sapiens: A Brief History of Hu... | 1 |
| | 978-0-330-25864-8 | Animal Farm | 2 |
| | 978-0-345-39180-3 | Dune | 1 |
| | 978-0-375-41398-8 | The Diary of a Young Girl | 1 |
| | 978-0-393-05081-8 | A Peoples History of the Unite... | 1 |
| | 978-0-393-05081-8 | A Peoples History of the Unite... | 1 |

Result 69 x

Result Grid

Filter Rows:

Export:



Wrap Cel

| isbn | book_title | issued_count |
|-------------------|-----------------------------------|--------------|
| 978-0-345-39180-3 | Dune | 1 |
| 978-0-375-41398-8 | The Diary of a Young Girl | 1 |
| 978-0-393-05081-8 | A Peoples History of the Unite... | 1 |
| 978-0-393-91257-8 | Guns, Germs, and Steel: The ... | 1 |
| 978-0-451-52993-5 | Fahrenheit 451 | 1 |
| 978-0-451-52994-2 | Moby Dick | 1 |
| 978-0-452-28240-7 | Brave New World | 1 |
| 978-0-525-47535-5 | The Great Gatsby | 2 |
| 978-0-553-29698-2 | The Catcher in the Rye | 1 |
| 978-0-670-81302-4 | The Road | 1 |
| 978-0-679-64115-3 | 1984 | 1 |
| 978-0-679-76489-8 | Harry Potter and the Sorcerer... | 2 |
| 978-0-679-77644-3 | Beloved | 1 |
| 978-0-7432-4722-5 | Angels & Demons | 1 |
| 978-0-7432-7356-4 | The Hobbit | 1 |
| 978-0-7432-7357-1 | 1491: New Revelations of the... | 1 |
| 978-0-7434-7679-3 | The Stand | 1 |



Result 69

×

Q4. Retrieve All Books in a Specific Category.

| Result Grid | | |
|-------------|--------------------------------------|--|
| | | Filter Rows:  Export:  |
| | book_title | category |
| ▶ | A Game of Thrones | Fantasy |
| | Harry Potter and the Sorcerers Stone | Fantasy |
| | The Hobbit | Fantasy |

Q5. Find Total Rental Income by Category.

| Result Grid | | | |
|-------------|------------------|--|--------------------|
| | | Filter Rows:  Export:  | |
| | category | SUM(b.rental_price) | count_rental_price |
| ▶ | Children | 7.5 | 2 |
| | Classic | 59 | 10 |
| | Fiction | 14.5 | 3 |
| | Fantasy | 28.5 | 4 |
| | History | 49.5 | 7 |
| | Literary Fiction | 6.5 | 1 |
| | Science Fiction | 8.5 | 1 |
| | Dystopian | 25.5 | 4 |
| | Mystery | 7.5 | 1 |
| | Horror | 7 | 1 |

Q6. List Members Who Registered in the Last 180 Days.

| Result Grid | | | | |
|-------------|-----------|-------------|----------------|------------|
| | member_id | member_name | member_address | reg_date |
| ▶ | C120 | francis | 156 Bigul St | 2026-05-05 |
| | C121 | Maduro | 196 Begum St | 2025-12-02 |

Q7. List Employees with Their Branch Manager's Name and their branch details.

| Result Grid | | | | | | | | |
|-------------|--------|------------------|-----------|--------|-----------|------------|----------------|-----------------|
| | emp_id | emp_name | position | salary | branch_id | manager_id | branch_address | manager_name |
| ▶ | E106 | Michelle Ramirez | Assistant | 43000 | B001 | E109 | 123 Main St | Daniel Anderson |
| | E105 | Sarah Brown | Assistant | 42000 | B001 | E109 | 123 Main St | Daniel Anderson |
| | E104 | Emily Davis | Assistant | 40000 | B001 | E109 | 123 Main St | Daniel Anderson |
| | E103 | Mike Johnson | Librarian | 55000 | B001 | E109 | 123 Main St | Daniel Anderson |
| | E101 | John Doe | Clerk | 60000 | B001 | E109 | 123 Main St | Daniel Anderson |
| | E102 | Jane Smith | Clerk | 45000 | B002 | E109 | 456 Elm St | Daniel Anderson |
| | E109 | Daniel Anderson | Manager | 57000 | B003 | E109 | 789 Oak St | Daniel Anderson |
| | E108 | Jessica Taylor | Clerk | 46000 | B004 | E110 | 567 Pine St | Laura Martinez |
| | E111 | Christopher Lee | Assistant | 65000 | B005 | E110 | 890 Maple St | Laura Martinez |
| | E110 | Laura Martinez | Manager | 41000 | B005 | E110 | 890 Maple St | Laura Martinez |
| | E107 | Michael Thompson | Clerk | 62000 | B005 | E110 | 890 Maple St | Laura Martinez |

Q8. Create a Table of Books with Rental Price above a Certain Threshold 7 USD.

| isbn | book_title | category | rental_price | status | author | publisher |
|-------------------|--|-----------------|--------------|--------|---------------------|------------------|
| 978-0-09-957807-9 | A Game of Thrones | Fantasy | 7.5 | yes | George R.R. Martin | Bantam |
| 978-0-307-58837-1 | Sapiens: A Brief History of Humankind | History | 8 | no | Yuval Noah Harari | Harper Perennial |
| 978-0-345-39180-3 | Dune | Science Fiction | 8.5 | yes | Frank Herbert | Ace |
| 978-0-393-05081-8 | A Peoples History of the United States | History | 9 | yes | Howard Zinn | Harper Perennial |
| 978-0-525-47535-5 | The Great Gatsby | Classic | 8 | yes | F. Scott Fitzgerald | Scribner |
| 978-0-7432-4722-4 | The Da Vinci Code | Mystery | 8 | yes | Dan Brown | Doubleday |
| 978-0-7432-4722-5 | Angels & Demons | Mystery | 7.5 | yes | Dan Brown | Doubleday |

Q9. Retrieve the List of Books Not Yet Returned.

| issued_book_name |
|-------------------------------|
| Dune |
| Where the Wild Things Are |
| The Kite Runner |
| Charlotte's Web |
| Beloved |
| A Tale of Two Cities |
| The Stand |
| Moby Dick |
| To Kill a Mockingbird |
| The Hobbit |
| Angels & Demons |
| The Diary of a Young Girl |
| Sapiens: A Brief History o... |
| 1491: New Revelations of... |
| The Catcher in the Rye |
| The Great Gatsby |
| Harry Potter and the Sorc... |
| Animal Farm |

Q10. Identify Members with Overdue Books.

| member_id | member_name | issued_book_name | issued_date | overdue_days |
|-----------|-------------|---------------------------|-------------|--------------|
| C102 | Bob Smith | Fahrenheit 451 | 2024-03-26 | 35 |
| C103 | Carol Davis | Dune | 2024-03-27 | 34 |
| C104 | Dave Wilson | Where the Wild Things Are | 2024-03-28 | 33 |
| C105 | Eve Brown | The Kite Runner | 2024-03-29 | 32 |
| C105 | Eve Brown | Charlotte's Web | 2024-03-30 | 31 |

Q11. Branch Performance Report

Create a query that generates a performance report for each branch, showing the number of books issued, the number of books returned, and the total revenue generated from book rentals.

| branch_id | manager_id | Issued_book_number | Return_book_number | Total_revenue |
|-----------|------------|--------------------|--------------------|---------------|
| B001 | E109 | 17 | 9 | 111.5 |
| B002 | E109 | 2 | 0 | 12 |
| B003 | E109 | 2 | 0 | 14 |
| B004 | E110 | 4 | 3 | 26.5 |
| B005 | E110 | 9 | 3 | 50 |

Q12. Create a Table of Active Members

Use the CREATE TABLE AS (CTAS) statement to create a new table active members containing members who have issued at least one book in the last 2 months.

Result Grid

Filter Rows:

Edit:

| | member_id | member_name | member_address | reg_date |
|---|-----------|----------------|----------------|------------|
| ▶ | C105 | Eve Brown | 890 Maple St | 2021-09-25 |
| | C106 | Frank Thomas | 234 Cedar St | 2021-10-15 |
| | C107 | Grace Taylor | 345 Walnut St | 2021-11-20 |
| | C108 | Henry Anderson | 456 Birch St | 2021-12-10 |
| | C109 | Ivy Martinez | 567 Oak St | 2022-01-05 |
| | C110 | Jack Wilson | 678 Pine St | 2022-02-25 |

Q13. Find Employees with the Most Book Issues Processed.

Write a query to find the top 3 employees who have processed the most book issues. Display the employee name, number of books processed, and their branch.

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | emp_id | emp_name | books_processed | branch_id | branch_address |
|---|--------|------------------|-----------------|-----------|----------------|
| ▶ | E110 | Laura Martinez | 6 | B005 | 890 Maple St |
| | E106 | Michelle Ramirez | 6 | B001 | 123 Main St |
| | E104 | Emily Davis | 4 | B001 | 123 Main St |