

Introduction

As a data science and machine learning student at Entri Elevate, your Library Management System project is a great way to apply your SQL skills.

Objectives:

- **Data Management**: Efficiently manage book, customer, issue, and return data.
- User-Friendly Queries: Develop SQL queries for easy data retrieval.
- **Data Integrity**: Use primary and foreign keys to maintain data integrity. Components:
- Books Table: Stores book details, including availability.
- Customer Table: Contains customer information.
- Issue Status Table: Tracks book issues.
- Return Status Table: Records book returns.

01:Retrieve the book title, category, and rental price of all available books

	Book_Title	Category	Rental Price	
•	Nerinoppam	Essay	12.00	
	Nashtanayika	Novel	12.50	
	Ormakuripukal	Autobiography	12.00	
	Agnisakshi	Novel	13.50	
	Tatvamasi	Essay	11.00	
	Rogavum Sahithyabhavanayum	Essay	10.50	
	Ayussinte Pusthakam	Noval	12.00	
	Dupe	Autobiography	11.00	
	Baheerinte Ediye	Autobiography	10.00	
	Jeevitham Oru Anugraham	Essay	10.00	
	EMS um Penkuttiyum	Stories	11.00	
	Chiri Malayalam	Humour	11.00	
	Irunda Vanasthilikal	Essay	10.00	
	Puliyum madhuravum	Autobiography	10.00	
	Snehichu Mthiyavade	Biography	10.00	
	Grand Final	Novel	13.00	

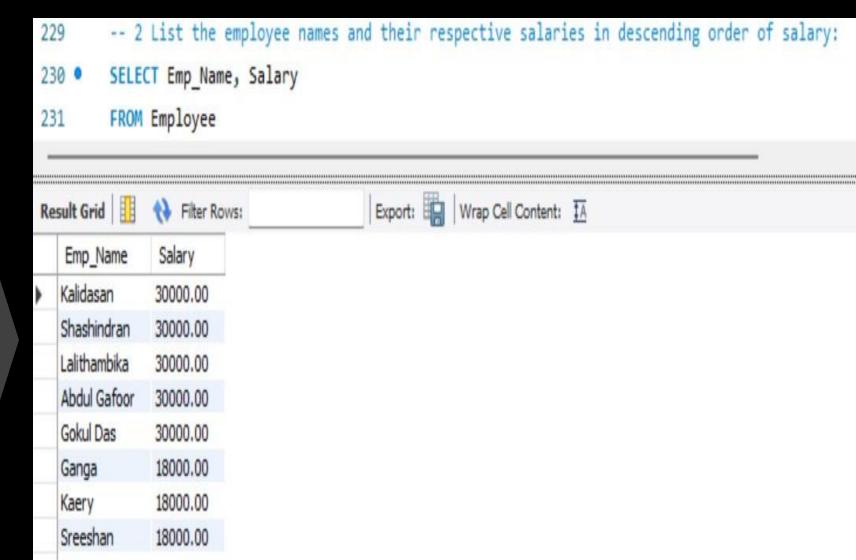
02: List the employee names and their respective salaries in descending order of salary:

Raju

Reena Rajan

18000.00

18000.00

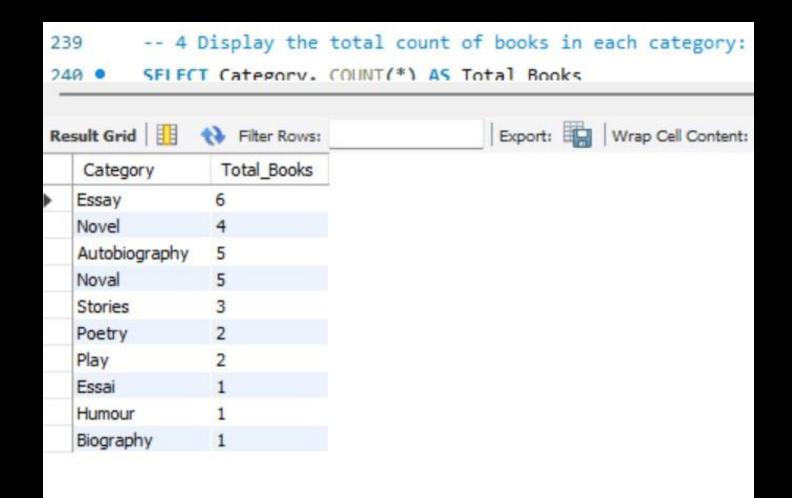


Result Grid 🔢 🙌 Fi	Iter Rows:
Issued_book_Name	Customer_Name
Inninte Aakulathakal	Rajan
Aadu Jeevitham	Satheeshan
EMS um Penkuttiyum	Meera
Ningalanne Communi	Varuna
Chiri Malayalam	Seenath
Aaryavarthanam	Mohanan
Marrayillathe	Prakashan
Irunda Vanasthilikal	Vilasini
Puliyum Madhuravum	Rohan kumar
Snehichu Mthiyavade	Fathima
Grand Final	Seenath
Thiranjedutha Kavit	Aliya Meenu
Aadu jeevitham	Ganga pv
Nashtanayika	Rajan k
Tatvamasi	Savithri

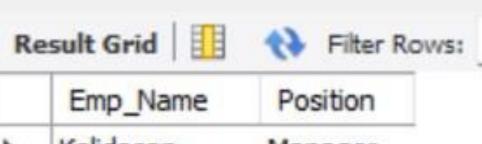
Re	esult Grid 🔢 🙌 Fil	ter Kows:	Export:
	Issued_book_Name	Customer_Name	
	Agnisakshi	Sangeeth	
	Nerinoppam	Aliya	
	Nashtanayika	Rajan	
	Ormakuripukal	Savithri	
	Shesham Vellithirayil	Kavya	
	Oxigen	Arun	
	Tatvamasi	Saritha	
	Mathilukal	Henna	
	Pathummayude Aadu	Sainaba	
	Dharmarajyam	Kavya Raj	
	Ayussinte Pusthakam	Fathima	
	Tipu Sulthan	Ganga	
	Dupe	Muhammad	
	Baheerinte Ediye	Aneesh	
	Jeevitham Oru Anug	Ganesh	

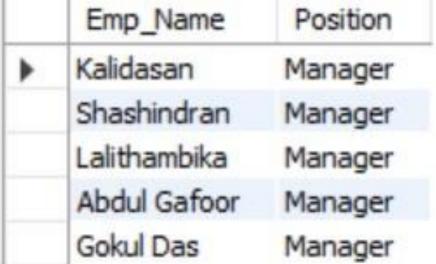
03:Retrieve the book titles and the corresponding customers who have issued those books:

04: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.25000

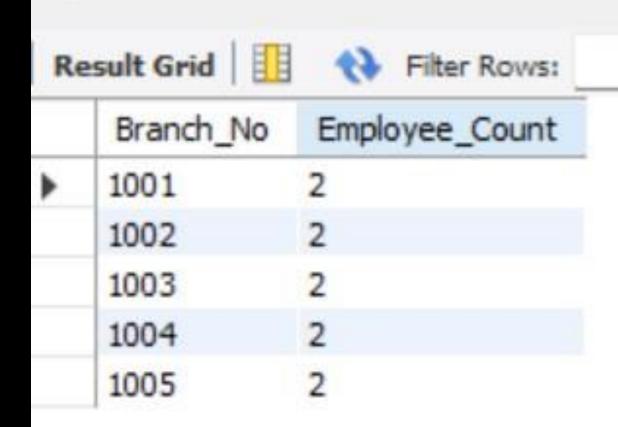




06:List the customer names who registered before 2024-04-01 and have not issued any books yet:



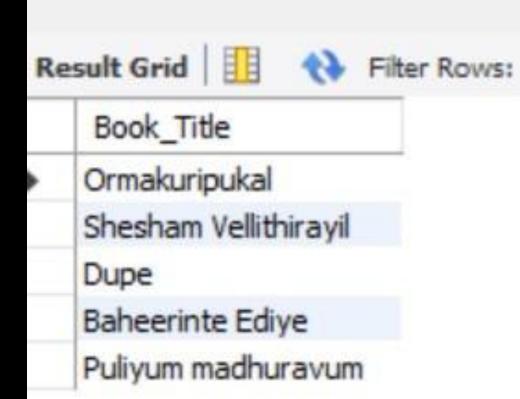
7:Display the branch numbers and the total count of employees in each branch



8:Display the names of customers who have issued books in the February 2025



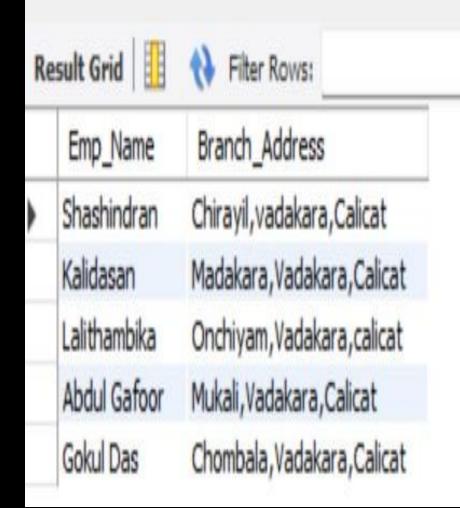
09:Retrieve book
titles from the
book table
containing
'Autobiography':



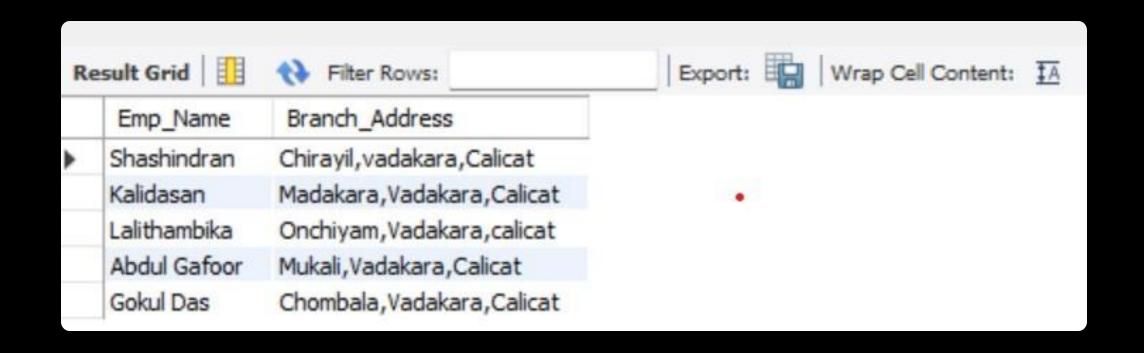
10:Retrieve the branch numbers along with the count of employees for branches having more than 5 employee:



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



Wrap Cell Content: IA



12:Display the names of customers who have issued books with a rental price higher than Rs. 13

Conclusion

• The Library Management System project not only helps you practice your SQL skills but also introduces you to real-world database management challenges. By working on this project, you will gain a deeper understanding of data handling, query optimization, and relational database design, all of which are crucial in data science and machine learning.