# MYSQL Comprehensive Assessment

**Topic : Library Management System**

You are going to build a project based on Library Management System. It keeps track of all information about books in the library, their cost, status and total number of books available in the library.

Create a database named library and following TABLES in the database:

1. Branch

2. Employee

3. Books

4. Customer

5. IssueStatus

6. ReturnStatus



Attributes for the tables:

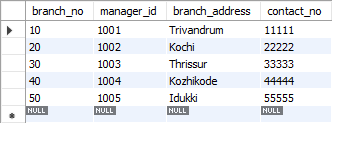
1. Branch

* Branch\_no - Set as PRIMARY KEY
* Manager\_Id
* Branch\_address
* Contact\_no

**Input**



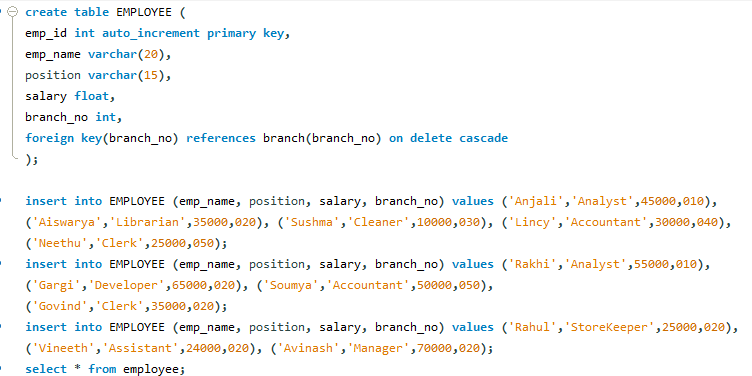
**Output**



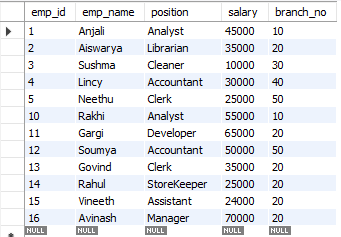
2. Employee

* Emp\_Id – Set as PRIMARY KEY
* Emp\_name
* Position
* Salary
* Branch\_no - Set as FOREIGN KEY and it refer Branch\_no in Branch table

**Input**



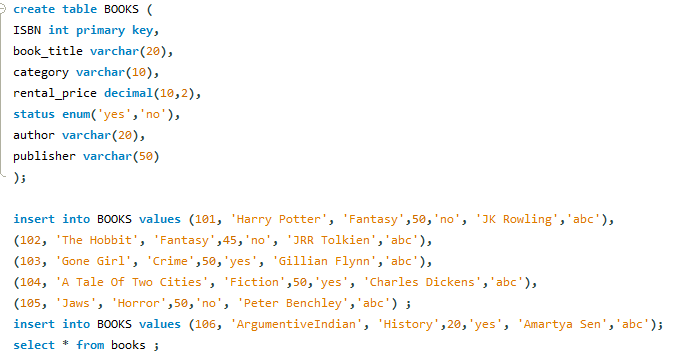
**Output**



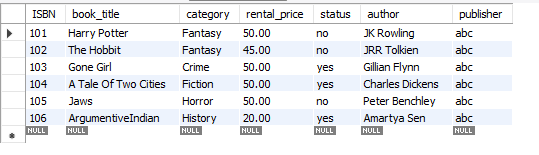
3. Books

* ISBN - Set as PRIMARY KEY
* Book\_title
* Category
* Rental\_Price
* Status [Give yes if book available and no if book not available]
* Author
* Publisher

**Input**

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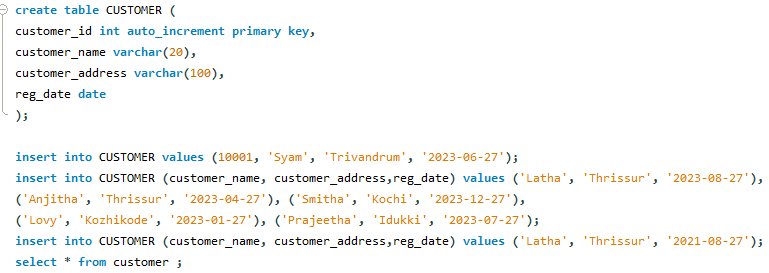
**Output**

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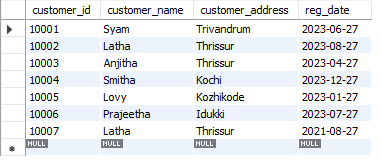
4. Customer

* Customer\_Id - Set as PRIMARY KEY
* Customer\_name
* Customer\_address
* Reg\_date

**Input**

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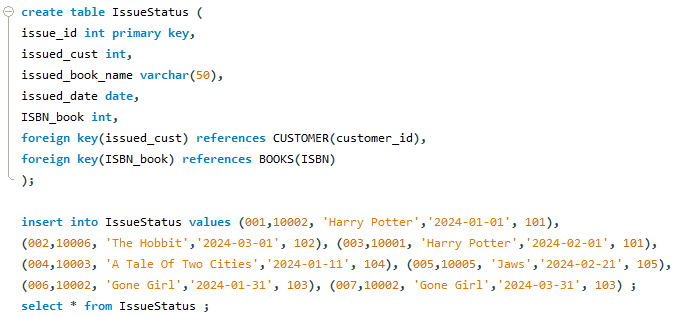
**Output**

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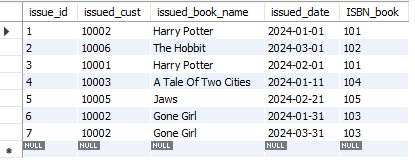
5. IssueStatus

* Issue\_Id - Set as PRIMARY KEY
* Issued\_cust – Set as FOREIGN KEY and it refer customer\_id in CUSTOMER table Issued\_book\_name
* Issue\_date
* Isbn\_book – Set as FOREIGN KEY and it should refer isbn in BOOKS table

**Input**

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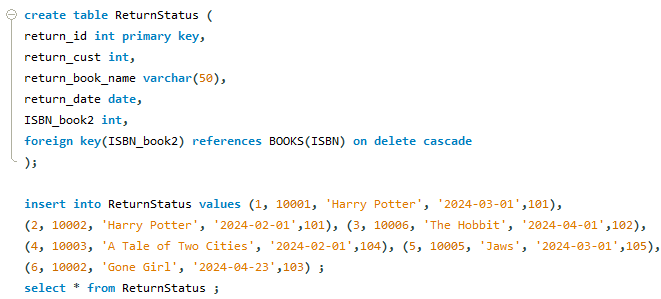
**Output**

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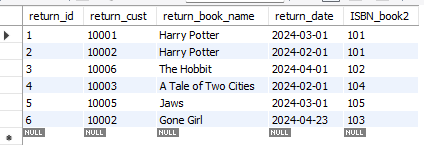
6. ReturnStatus

* Return\_Id - Set as PRIMARY KEY
* Return\_cust
* Return\_book\_name
* Return\_date
* Isbn\_book2 - Set as FOREIGN KEY and it should refer isbn in BOOKS table

**Input**

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**Output**

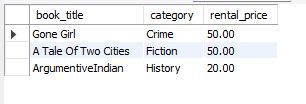


**1. Retrieve the book title, category, and rental price of all available books.**

**Input**



**Output**

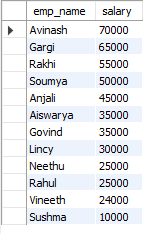


**2. List the employee names and their respective salaries in descending order of salary.**

**Input**

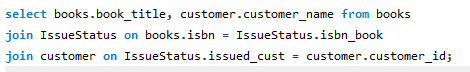
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**Output**

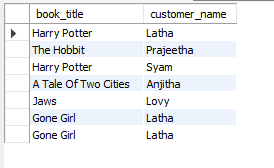


**3. Retrieve the book titles and the corresponding customers who have issued those books.**

**Input**

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**Output**

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

**Input**

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**Output**

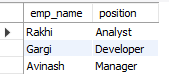
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**5. Retrieve the employee names and their positions for the employees whose salaries are above Rs.50,000.**

**Input**

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**Output**

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

**Input**

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**Output**

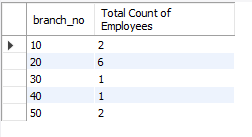
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**7. Display the branch numbers and the total count of employees in each branch.**

**Input**

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**Output**

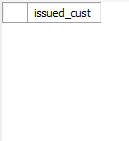
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**8. Display the names of customers who have issued books in the month of June 2023.**

**Input**

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**Output**

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**No customers have issued books in the month of June 2023.**

**9. Retrieve book\_title from book table containing history.**

**Input**

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**Output**

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

**Input**

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**Output**

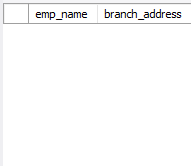
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**11. Retrieve the names of employees who manage branches and their respective branch addresses.**

**Input**

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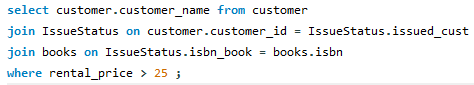
**Output**

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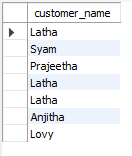
**From the list of employees in the employee table, no one manages the branch.**

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

**Input**

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**Output**

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