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

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

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

4. Customer

- Customer_Id Set as PRIMARY KEY
- Customer name
- Customer_address
- Reg_date

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

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

Display all the tables and Write the queries for the following:

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











































