MySQL Module End Project

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

Solution;

```
140     -- 1. Retrieve the book title, category, and rental price of all available books.
141 •   select Book_title, Category, Rental_Price from Books where status = 'yes';
142
143
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Book_title	Category	Rental_Price
Book Eight	Fiction	7.49
Book Six	Fiction	5.49
Book Four	Science	7.99
Book Ten	Science	4.49
Book Two	Non-Fiction	6.99
Book One	Fiction	5.99

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

Solution;

```
143     -- 2. List the employee names and their respective salaries in descending order of salary.
144 •   select Emp name, Salary from Employee order by Salary desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_name	Salary
Frank Green	70000
Alice Johnson	65000
Ivy Grey	62000
John Doe	60000
Eve White	36000
Bob Brown	35000
Hank Blue	34000
Charlie Davis	32000
Grace Black	31000
Jane Smith	30000

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

Solution;

```
146     -- 3. Retrieve the book titles and the corresponding customers who have issued those books.
147 •   select b.Book_title, c.Customer_name from IssueStatus i
148     join Books b on i.Isbn_book = b.ISBN
149     join Customer c on i.Issued_cust = c.Customer_Id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Book_title	Customer_name
Book One	Michael Brown
Book Two	Sarah Davis
Book Three	David Wilson
Book Four	Laura Moore
Book Five	James Taylor
Book Six	Emily Anderson
Book Seven	Matthew Thomas
Book Eight	Anna Martin
Book Nine	Robert Jackson
Book Ten	Patricia White

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

Solution;

```
150     -- 4. Display the total count of books in each category.
151 •   select Category, count(*) as Total_Books from Books group by Category;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Category	Total_Books
Biography	1
Fiction	4
Non-Fiction	2
Science	2
History	1

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

Solution:

```
153 •   select Emp_name, Position from Employee where Salary > 50000;
154
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_name	Position
John Doe	Manager
Alice Johnson	Manager
Frank Green	Manager
Ivy Grey	Manager

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

Solution:

```
156    -- 6. List the customer names who registered before 2022-01-01 and have not issued any books yet.
157    select Customer_name from Customer where Reg_date < 2022-01-01
158    and Customer_Id not in (select Issued_cust from IssueStatus);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer_name

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

Solution:

```
161    -- 7. Display the branch numbers and the total count of employees in each branch.
162    select Branch_no, count(*) as Total_Employees from Employee group by Branch_no;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Branch_no	Total_Employees
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1

\

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

Solution;

```
164    -- 8. Display the names of customers who have issued books in the month of June 2023.
165    select distinct c.Customer_name from IssueStatus i
166    join Customer c on i.Issued_cust = c.Customer_Id
167    where year(i.Issue_date) = 2023 and month(i.Issue_date) = 6;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer_name

9. Retrieve book_title from book table containing history.

Solution:

```
169     -- 9. Retrieve book_title from book table containing history.
170 •   select Book_title from Books where Category = 'Histoty';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Book_title

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

Solution:

```
172     -- 10.Retrieve the branch numbers along with the count of
173     -- employees for branches having more than 5 employees
174 •   select Branch_no, count(*) as Totaal_Employees from Employee group by Branch_no
175     having count(*) > 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Branch_no	Totaal_Employees