

WELCOME TO LIBRARY MANAGEMENT PROJECT





~ABOUT THE PROJECT~

Hello! My name is Sristi Pathak and in this project i have utilise the SQL Queries to solve question which are related to library management. The below pictures are the table creation.



```
-- Table Creation(members table)
create table memberssss(
member_id int primary key auto_increment,
member_names varchar(100),
phone varchar(15),
email varchar(100),
address varchar(200),
membership_date date);
```

```
-- Books Table
create table read_bookss(
book_id int primary key auto_increment,
title varchar(200),
author varchar(100),
category varchar(50),
publication_year int,
available_copies int);
```

```
-- Staff Table
create table staff(
staff_id int primary key auto_increment,
staff_name varchar(100),
role varchar(50),
salary int);
```

```
-- Issued Books Table
create table issued_bookss(
issue_id int primary key auto_increment,
book_id int,
member_id int ,
issue_date date,
return_date date,
issued_by int,
foreign key (book_id) references read_bookss(book_id),
foreign key (member_id) references memberssss(member_id),
foreign key (issued_by) references staff(staff_id));
```

~List all Self-help books~

```
SELECT
    *
FROM
    read_bookss
WHERE
    category = 'Self-help';
```

Result Grid						
Filter Rows:						
	book_id	title	author	category	publication_year	available_copies
▶	4	Think and Grow Rich	Napoleon Hill	Self-help	1937	7
	5	The Power of Habit	Charles Duhigg	Self-help	2012	6
	6	Atomic Habits	James Clear	Self-help	2018	12
	20	Ikigai	Héctor García	Self-help	2016	13
✱	NULL	NULL	NULL	NULL	NULL	NULL

Show all members who joined after March 2023

```
SELECT
```

```
    *
```

```
FROM
```

```
    membersss
```

```
WHERE
```

```
    membership_date > '2023-03-01';
```

Result Grid						
Filter Rows: <input type="text"/>						
Edit: <input type="text"/>						
Export/Import: <input type="text"/>						
Wrap Cell						
	member_id	member_names	phone	email	address	membership_date
▶	3	Simran Kaur	9876598765	simran@gmail.com	Punjab	2023-03-10
	4	Priya Singh	9867543210	priya@gmail.com	Lucknow	2023-04-14
	5	Arjun Mehta	7845123698	arjun@gmail.com	Delhi	2023-03-02
	6	Nisha Pandey	9988776655	nisha@gmail.com	Agra	2023-03-15
	7	Vikas Kumar	9090909090	vikas@gmail.com	Patna	2023-04-01
	8	Ritu Thakur	9871234567	ritu@gmail.com	Bhopal	2023-05-20
	11	Aditya Roy	8009007001	aditya@gmail.com	Chennai	2023-05-11
	12	Kiran Patel	8787878787	kiran@gmail.com	Ahmedabad	2023-05-15
	13	Rakesh Yadav	9898989898	rakesh@gmail.com	Gurgaon	2023-03-25
	14	Sneha Kapoor	7778889990	sneha@gmail.com	Delhi	2023-04-04
•	NULL	NULL	NULL	NULL	NULL	NULL

Find books issued but not returned

SELECT

b.title, m.member_names, ib.issue_date

FROM

issued_bookss ib

JOIN




read_bookss b **ON** ib.book_id = b.book_id

JOIN

memberssss m **ON** ib.member_id = m.member_id



WHERE

ib.return_date **IS NULL**;

Result Grid   Filter Rows: <input type="text"/> Export:  Wra			
	title	member_names	issue_date
▶	The Power of Habit	Simran Kaur	2023-03-05
	The Monk Who Sold His Ferrari	Arjun Mehta	2023-03-08
	The Hobbit	Vikas Kumar	2023-03-12
	Half Girlfriend	Sahil Khan	2023-03-14
	Think and Grow Rich	Kiran Patel	2023-03-17
	Wings of Fire	Sneha Kapoor	2023-03-19
	To Kill a Mockingbird	Manish Gupta	2023-03-20
	The Secret	Amit Sharma	2023-03-21
	2 States	Arjun Mehta	2023-03-23
	The Girl on the Train	Vikas Kumar	2023-03-24
	You Can Win	Sahil Khan	2023-03-25



Count how many books each staff member issued

```
SELECT
    s.staff_name, COUNT(ib.issue_id) AS total_issued
FROM
    staff s
    LEFT JOIN
        issued_bookss ib ON s.staff_id = ib.issued_by
GROUP BY s.staff_id;
```

Result Grid   Filter Rows:		
	staff_name	total_issued
▶	Suresh Kumar	6
	Meena Sharma	5
	Rahul Singh	5
	Priyanka Das	4
	Harish Yadav	0
	Deepak Kumar	0
	Kavita Rani	0
	Rajesh Mehta	0

List top 5 recently issued books

```
SELECT
    b.title, ib.issue_date
FROM
    issued_bookss ib
    JOIN
    read_bookss b ON ib.book_id = b.book_id
ORDER BY ib.issue_date DESC
LIMIT 5;
```

Result Grid   Filter Rows: <input type="text"/>		
	title	issue_date
.	You Can Win	2023-03-25
	The Girl on the Train	2023-03-24
	2 States	2023-03-23
	Digital Fortress	2023-03-22
	The Secret	2023-03-21

Show all books written by Dan Brown

```
SELECT
    *
FROM
    read_bookss
WHERE
    author = 'Dan Brown';
```

	book_id	title	author	category	publication_year	available_copies
▶	13	Digital Fortress	Dan Brown	Thriller	1998	6
	14	Inferno	Dan Brown	Thriller	2013	5
•	NULL	NULL	NULL	NULL	NULL	NULL

Find members who belong to delhi

```
SELECT
    *
FROM
    membersss
WHERE
    address = 'Delhi';
```

	member_id	member_names	phone	email	address	membership_date
▶	1	Amit Sharma	9876543210	amit@gmail.com	Delhi	2023-01-10
	5	Arjun Mehta	7845123698	arjun@gmail.com	Delhi	2023-03-02
	14	Sneha Kapoor	7778889990	sneha@gmail.com	Delhi	2023-04-04
•	NULL	NULL	NULL	NULL	NULL	NULL

Show total books in each category

```
SELECT
    category, COUNT(book_id) AS total_books
FROM
    read_bookss
GROUP BY category;
```

Result Grid			Filter Rows:
	category	total_books	
▶	Fiction	2	
	Fantasy	2	
	Finance	1	
	Self-help	4	
	Biography	2	
	Motivation	2	
	Thriller	4	
	Spiritual	1	
	Romance	2	

Thank You!
For Viewing My

LIBRARY

MANAGEMENT PROJECT

