Select \* from book;

| id | title | price | publication | author | category\_id |
| --- | --- | --- | --- | --- | --- |
| 22001 | The Alchemist | 199 | DC Publications | Paulo Coelho | 11004 |
| 22002 | History of Modern India | 325 | ABC Publications | Bipan Chandra | 11001 |
| 22003 | Leaves of Grass | 200 | A2B Publications | Walt Whitman | 11002 |
| 22004 | Nineteen Eighty-Four | 400 | QDC Publications | George Orwel | 11003 |
| 22005 | Wings of Fire | 425 | DC Publications | A. P. J. Abdul Kalam | 11005 |

Select \* from category;

| id | category\_name |
| --- | --- |
| 11001 | History |
| 11002 | Poetry |
| 11003 | Classic |
| 11004 | Fiction |
| 11005 | Biography |

select \* from member;

| id | name | contact\_number | deleted |
| --- | --- | --- | --- |
| 101 | Akash | 9897654131 | 0 |
| 102 | Sumesh | 8796719178 | 0 |
| 103 | Mishal | 6596719178 | 0 |
| 104 | Nithin | 8712719178 | 0 |
| 105 | Aneez | 8745719178 | 0 |

select \* from staff;

| id | name | designation | deleted |
| --- | --- | --- | --- |
| 1 | Raneez | Librarian | 1 |
| 2 | Vijay | Assistant | 0 |
| 3 | Josel | Library Director | 0 |

select \* from book\_issue\_details;

| id | issue\_date | due\_date | return\_date | member\_id | book\_id | staff\_id |
| --- | --- | --- | --- | --- | --- | --- |
| 1001 | 2024-03-06 00:00:00 | 2024-03-26 00:00:00 | 2024-03-07 00:00:00 | 102 | 22005 | 1 |
| 1002 | 2024-03-05 00:00:00 | 2024-03-30 00:00:00 | NULL | 101 | 22002 | 1 |
| 1003 | 2024-02-15 00:00:00 | 2024-04-25 00:00:00 | NULL | 103 | 22001 | 3 |
| 1004 | 2024-03-01 00:00:00 | 2024-03-20 00:00:20 | NULL | 104 | 22004 | 2 |
| 1005 | 2024-03-02 00:00:00 | 2024-03-24 00:00:00 | 2024-03-07 00:00:00 | 105 | 22003 | 1 |
| 1006 | 2024-01-05 00:00:00 | 2024-02-27 00:00:00 | 2024-01-27 00:00:00 | 103 | 22001 | 2 |
| 1007 | 2024-01-08 00:00:00 | 2024-02-01 00:00:00 | 2024-01-20 00:00:00 | 104 | 22002 | 3 |
| 1008 | 2023-12-05 00:00:00 | 2023-12-31 00:00:00 | 2024-01-03 00:00:00 | 101 | 22001 | 2 |
| 1009 | 2023-12-10 00:00:00 | 2024-01-02 00:00:00 | 2024-01-02 00:00:00 | 103 | 22005 | 1 |

**Update Query**

—----------------------------------------------

**-- 1.Renew an issued book**

update book\_issue\_details set due\_date='2024-04-25' where book\_id=22001;

update book\_issue\_details set due\_date=date\_sub(due\_date,interval 20 day)

where book\_id=22004;

**-- 2- Return an issued Book**

update book\_issue\_details set return\_date='2024-03-07'

where book\_id=22003;

**-- 3 - Update the Name of a member**

update member set name="Akash"

where id=101 ;

**-- 4-Update the Name of a staff**

update staff set name="Josel"

where id=3;

**Select Query**

—--------------------------------------------------

**-- 1.Write an aggregate query to Count how many times the book "Alchemist" had been issued so far.**

select count(book\_id) from book\_issue\_details bid

join book b

on bid.book\_id=b.id

where b.title='The Alchemist' ;

**-- 2.Write a query to find the most costly book in the Library.**

select title from book

order by price desc limit 1;

**-- 3.Write a query to find the top 3 most borrowed books.**

select b.title, count(bid.book\_id) from book\_issue\_details bid

join book b on bid.book\_id=b.id

group by bid.book\_id order by count(bid.book\_id) desc limit 3;

**-- 4.Write a query to find the most costly book that is currently issued.**

select b.title from book b join book\_issue\_details bid

on b.id=bid.book\_id

where bid.return\_date is null order by b.price desc limit 1;

**-- 5.Write a query to get the name and contact number of all members who have at least one book currently in their hand.**

select m.name,m.contact\_number from member m

join book\_issue\_details bid

on bid.member\_id=m.id

where bid.return\_date is null;

**Soft delete**

—------------------------------------------

select \* from staff;

alter table staff add column deleted bit not null default 0;

update staff set deleted=1 where id=1;

select \* from staff where deleted=0;