

# LIBRARY DATABASE

## GROUP NAMES:

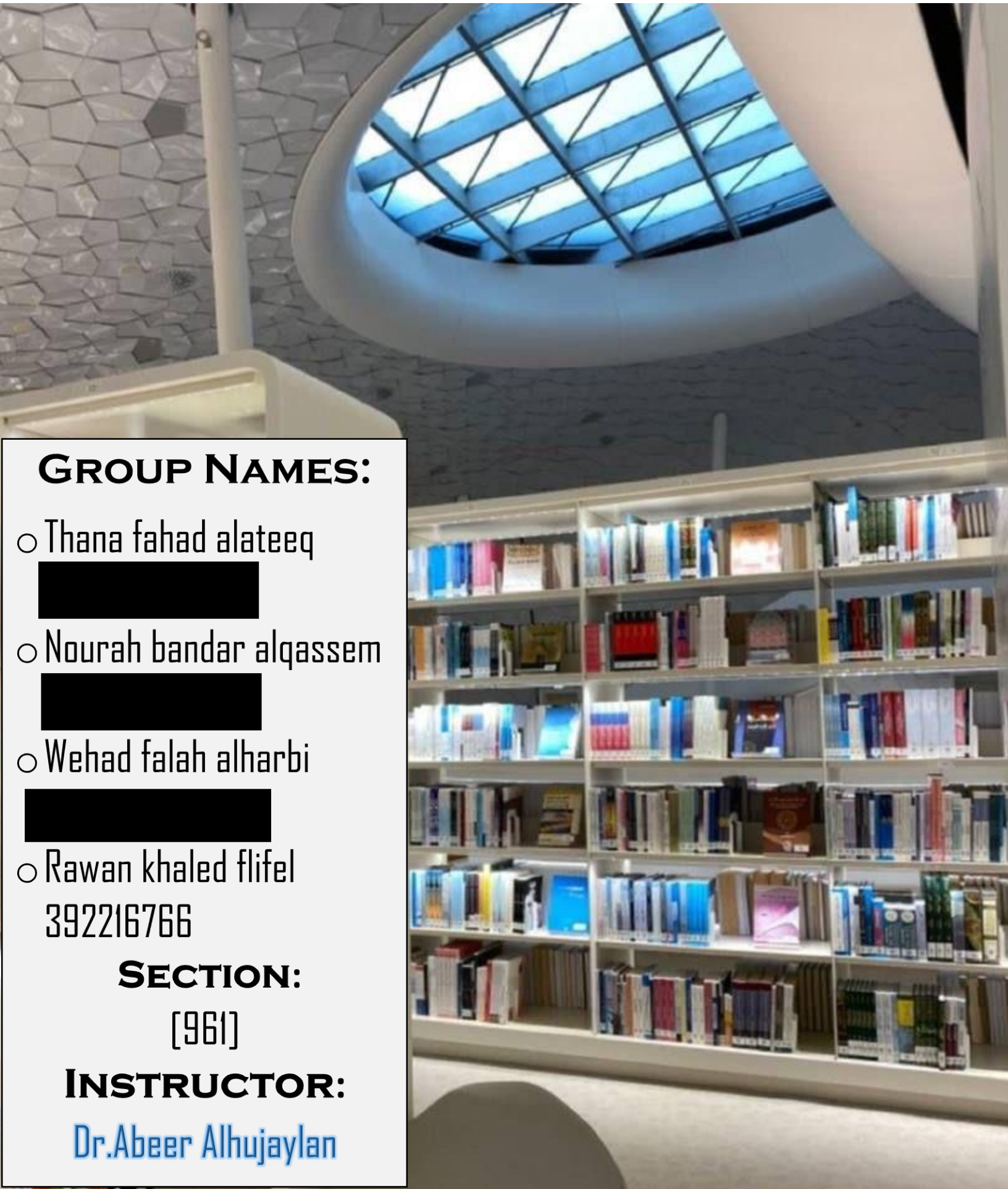
- Thana fahad alateeq  
[REDACTED]
- Nourah bandar alqassem  
[REDACTED]
- Wehad falah alharbi  
[REDACTED]
- Rawan khaled flifel  
392216766

## SECTION:

[961]

## INSTRUCTOR:

Dr.Abeer Alhujaylan



## **INTRODUCTION**

The library is a joint information resource and meeting place for all students and researchers at each University.

Here you will find literature and resources relevant to research and education at the university.

Qassim-University has a huge amount of resources to supply their student and professors with all the knowledge they may need.

This database will provide an advance to store transaction and resource of the library.

## I. DATA REQUIREMENTS:

### • CATALOG SERVICES:

- **Books:** Each library can be divided into several sections such as: medical, computer science, mathematical, historical and so on.  
Table content (ISBN, title, Author, publisher, and state of book available or No, book type and how many copies available).
- **Room:** There are several rooms in the library where member can book one.  
The table content (room number, status (busy / no), available time for room and room type (lab, reading room, or work room)).
- **Classification:** Are sections within library on which to classified books include: unique number and name.
- **Staff(Employee):** Are the people working in the library. Each one of them has (ID, name, email, age, gender, salary)
- **Items of the library:** Are items in the library include (Sound Recording, video Recording, and journals). The table include (unique number, type, publisher, description)
- **Other service:** This section include printing and copying services provided by computers with an active internet connection. It contains the service name and description about it.

### • CIRCULATION SERVICE:

- **Member:** Members are able to loan from the library.  
The table includes (ID number, member name, member type, address, email, age).
- **Privilege:** Each member is granted privileges according to his type (student, staff).  
The table includes (privilege number, privilege name, loan period, highest borrow limit, highest renewal limit).
- **Loan:** A library service provided to members. Each loan has: ID, date loaned and due date.
- **Fine:** If the member does not abide by the library laws on the loaning that will be awarded a fine. The table includes (the number of the fine, the item that has not been recovered, the quantity, the condition whether the payment was made or not).
- **Branch:** The library has branch office. The data held on branch includes (branch name, branch number, location, phone number).

## **II. TRANSACTION REQUIREMENT**

### **1. DATA MANIPULATION:**

#### **I. DATA ENTRY:**

- Enter the details of new book.
- Enter the details of new member.
- Enter the details of branch.
- Enter the details of new Staff.
- Enter the details of fines.
- Enter the number of Rooms.
- Enter the number of loans.
- Enter the details of new item.
- Enter the details of privileges.
- Enter the number of classifications.

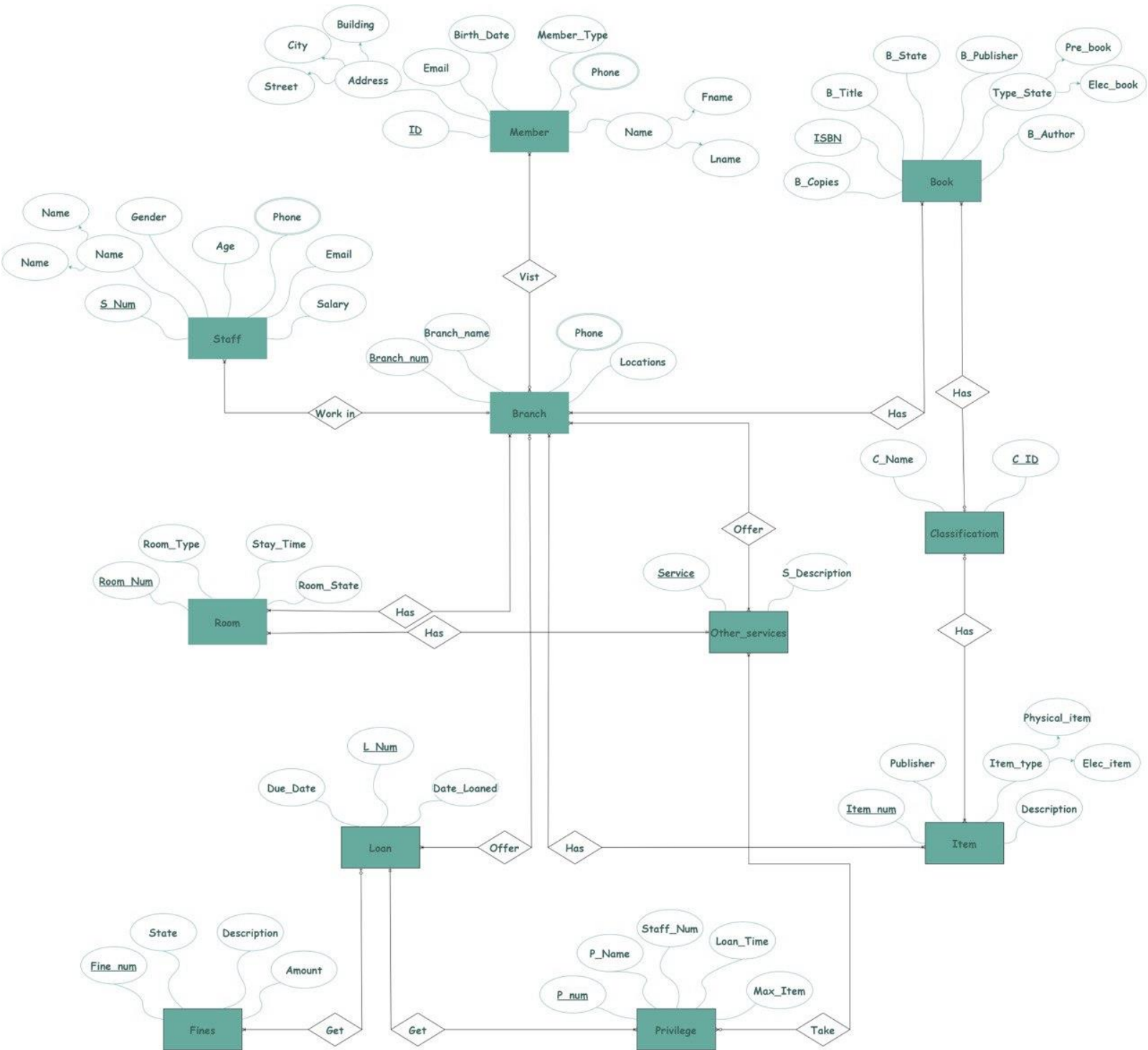
#### **II. DATA UPDATE/DELETION:**

- Update/deletion the details of new book.
- Update/deletion the details of new members.
- Update/deletion the details branch.
- Update/deletion the details of new Staff.
- Update/deletion the details of fines.
- Update/deletion the details of new Room.
- Update/deletion the details of new loan.
- Update/deletion the details of new item.
- Update/deletion the details of privilege.
- Update/deletion the details of classifications.

#### **III. DATA QUERIES:**

- List of all Books.
- List of all authors and Publishers.
- List of the ISBN of books.
- Identify the total number of members that get on fines.
- List of names, ID of each member.
- List of the name, ID of each Staff.
- List of the number of branches.
- List of all services.
- List of all rooms that available in the library
- List the details of items.
- List of the number of classifications in library.

### III. EER MODEL



#### IV. RELATIONAL MAPPING

##### BOOK

<u>ISBN</u>	B_AUTHER	B_TITLE	B_PUBLISHER	B_COPIES	B_state	type_state	C_ID
-------------	----------	---------	-------------	----------	---------	------------	------

##### Members

<u>ID</u>	Fname	Lname	Birth_Date	Email	Address	Member_type
-----------	-------	-------	------------	-------	---------	-------------

##### Staff

<u>Snum</u>	Fname	Lname	Age	Gender	Salary	Email	B_num
-------------	-------	-------	-----	--------	--------	-------	-------

##### Branch

<u>Branch_num</u>	Branch_name	Location	phone	Branch_service
-------------------	-------------	----------	-------	----------------

##### Other\_services

<u>Service</u>	S_Description
----------------	---------------

##### Fines

<u>Fine_num</u>	State	Amount	Description
-----------------	-------	--------	-------------

##### ROOM

<u>Room_num</u>	Room_type	Room_state	Stay_time	B_num	service_name
-----------------	-----------	------------	-----------	-------	--------------

##### Loan

<u>L_num</u>	Date_loaned	Due_date	B_num	<u>Fines_num</u>
--------------	-------------	----------	-------	------------------

##### Item

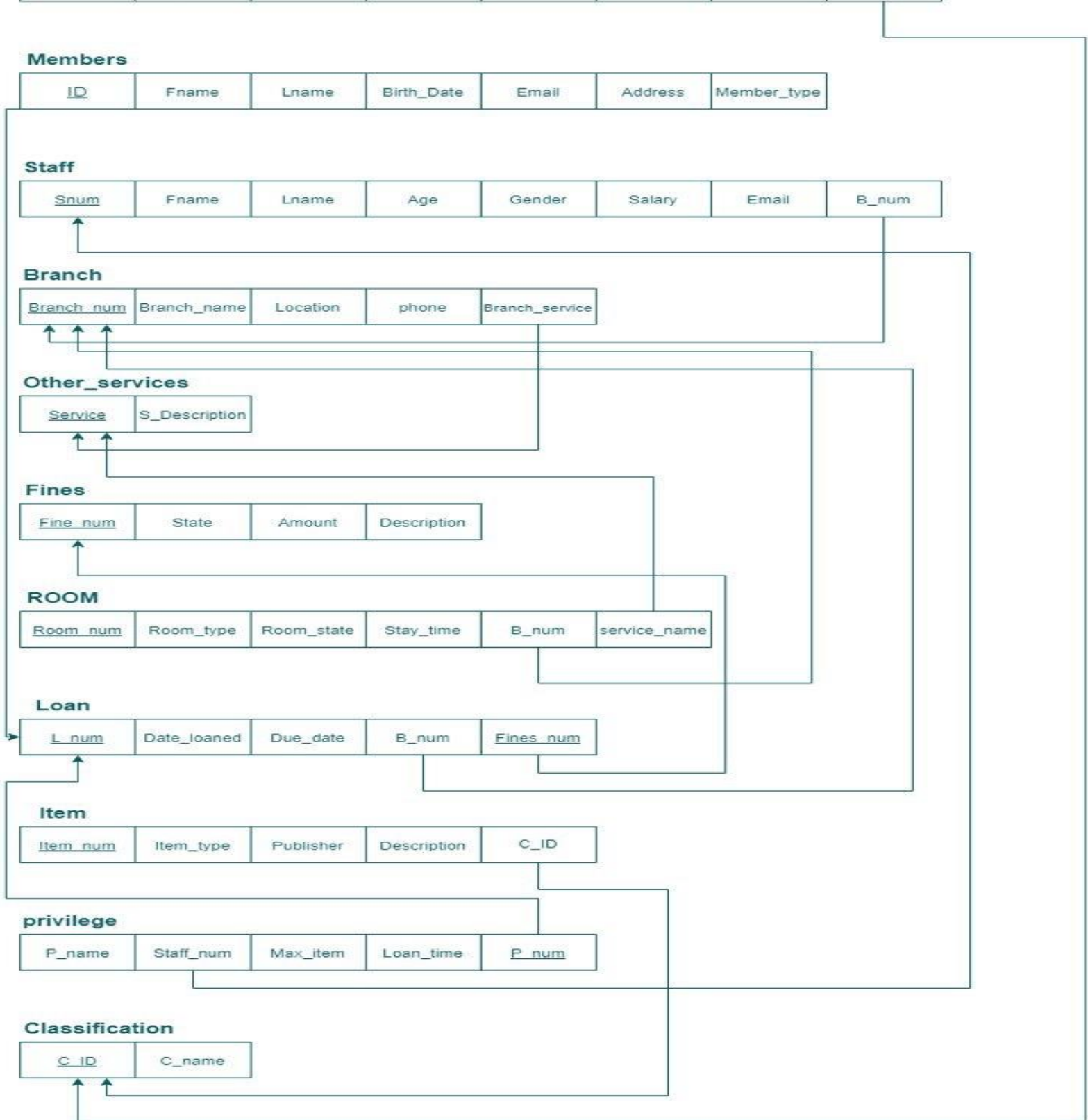
<u>Item_num</u>	Item_type	Publisher	Description	C_ID
-----------------	-----------	-----------	-------------	------

##### privilege

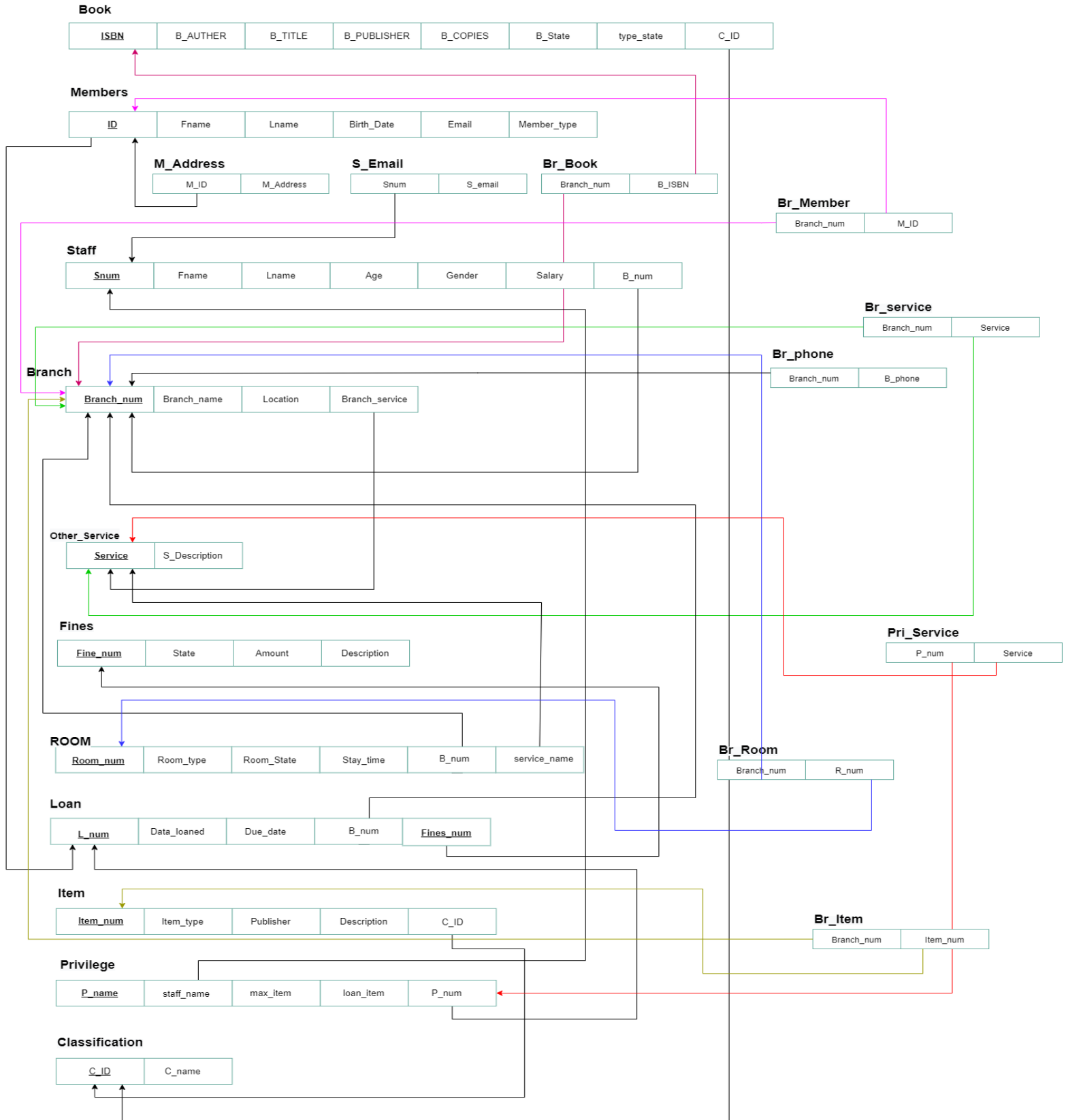
P_name	Staff_num	Max_item	Loan_time	<u>P_num</u>
--------	-----------	----------	-----------	--------------

##### Classification

<u>C_ID</u>	C_name
-------------	--------



## V. NORMALIZATION



### Book

<u>ISBN</u>	B_AUTHOR	B_TITLE	B_PUBLISHER	B_COPIES	B_state	type_state	C_ID
-------------	----------	---------	-------------	----------	---------	------------	------

### Book

<u>ISBN</u>	B_COPIES	B_state	type_state	C_ID
-------------	----------	---------	------------	------

### Book info

<u>ISBN</u>	B_TITLE	B_AUTHOR	B_PUBLISHER
-------------	---------	----------	-------------

### Members

<u>ID</u>	Fname	Lname	Birth_Date	Email	Address	Member_type
-----------	-------	-------	------------	-------	---------	-------------

### Members

<u>ID</u>	Birth_Date	Email	Member_type
-----------	------------	-------	-------------

### Members Address

<u>ID</u>	Address
-----------	---------

### Members Name

<u>ID</u>	Fname	Lname
-----------	-------	-------

### Staff

<u>Snum</u>	Fname	Lname	Age	Gender	Salary	Email	B_num
-------------	-------	-------	-----	--------	--------	-------	-------

### Staff

<u>Snum</u>	Age	Gender	Salary	B_num
-------------	-----	--------	--------	-------

### Staff Email

<u>Snum</u>	Address
-------------	---------

### Staff Name

<u>Snum</u>	Fname	Lname
-------------	-------	-------

### Staff Privilege

<u>Snum</u>	Privilege
-------------	-----------

### Branch

<u>Branch_num</u>	Branch_name	Location	phone	Branch_service
-------------------	-------------	----------	-------	----------------

### Branch

<u>Branch_num</u>	Branch_service
-------------------	----------------

### Branch Info

<u>Branch_num</u>	Branch_name	Location
-------------------	-------------	----------

### Branch phone

<u>Branch_num</u>	Phone
-------------------	-------



### Other\_Service

Service	S_Description
---------	---------------

\*No Normilzation need in this Table

### Fines

<u>Fine_num</u>	State	Amount	Description
-----------------	-------	--------	-------------

\*No Normilzation need in this Table

### ROOM

<u>Room_num</u>	Room_type	Room_State	Stay_time	B_num	service_name
-----------------	-----------	------------	-----------	-------	--------------



### ROOM

<u>Room_num</u>	Stay_time	B_num	service_name
-----------------	-----------	-------	--------------

### Room Info

<u>Room_num</u>	Room_type	Room_State
-----------------	-----------	------------

### Loan

L_num	Data_loaned	Due_date	B_num	<u>Fines_num</u>
-------	-------------	----------	-------	------------------

\*No Normilzation need in this Table

### Item

<u>Item_num</u>	Item_type	Publisher	Description	C_ID
-----------------	-----------	-----------	-------------	------

\*No Normilzation need in this Table

### Privilege

<u>P_name</u>	Staff_num	Max_item	Loan_time	P_num
---------------	-----------	----------	-----------	-------

\*No Normilzation need in this Table

### Classification

<u>C_ID</u>	C_name
-------------	--------

\*No Normilzation need in this Table

## VI. CREATING DATABASE

- **CREATING TABLES:**

- ```
create table Book (  
    ISBN int(10) not null constraint book_pk primary key,  
    B_AUTHER varchar(30) not null,  
    B_TITLE varchar(70) not null,  
    B_PUBLISHER varchar(30) not null,  
    B_COPIES int(10) not null,  
    B_state Varchar(20),  
    type_state varchar(10),  
    C_ID int(10),  
  
    FOREIGN KEY (C_ID) REFERENCES Classification(C_ID)  
);
```
- ```
create table Members (  
    ID int(10) not null constraint members_pk primary key,  
    Fname varchar(30) not null,  
    Lname varchar(30) not null,  
    Birth_Date date,  
    Email varchar(30) not null,  
    Address varchar(30),  
    Member_type varchar(20),  
  
    FOREIGN KEY (ID) REFERENCES Loan(L_num)  
);
```
- ```
create table Staff (  
    Snum int(10) not null constraint staff_pk primary key,  
    Fname varchar(30) not null,  
    Lname varchar(30) not null,  
    Age int(10),  
    Gender varchar(7),  
    Salary int(10) not null,  
    Email varchar(30) not null,  
    B_num int(20),  
  
    FOREIGN KEY (B_num) references Branch(Branch_num) );
```
- ```
create table Branch (  
    Branch_num int(10) not null constraint branch_pk primary key,  
    Branch_name varchar(30) not null,  
    Locations varchar(90),  
    phone int(10),  
    Branch_service varchar(30),  
  
    FOREIGN KEY (Branch_service) REFERENCES Other_services(Service)  
);
```
- ```
create table Other_services (  
    Service varchar(20) not null constraint other_services_pk primary key,  
    S_Description varchar(100) not null  
);
```

- `create table Fines (`  
`Fine_num int(10) not null constraint fines_pk primary key,`  
`State varchar(20) not null,`  
`Amount int(10),`  
`Description varchar(100)`  
`);`
- `create table Room (`  
`Room_num int(10) not null constraint room_pk primary key,`  
`Room_type varchar(20),`  
`Room_state varchar(20),`  
`Stay_time varchar(20),`  
`B_num int(20),`  
`Service_name varchar(20),`  
  
`FOREIGN KEY (B_num) REFERENCES Branch(Branch_num),`  
`FOREIGN KEY (Service_name) REFERENCES Other_services(Service)`  
`);`
- `create table Loan (`  
`L_num int(10) not null constraint loan_pk primary key,`  
`Date_loaned date,`  
`Due_date date,`  
`B_num int(20),`  
`Fines_num int(20),`  
  
`FOREIGN KEY (B_num) REFERENCES Branch(Branch_num),`  
`FOREIGN KEY (Fines_num) REFERENCES Fines(Fine_num)`  
`);`
- `create table Item (`  
`Item_num int(10) not null constraint item_pk primary key,`  
`Item_type varchar(20),`  
`Publisher varchar(20),`  
`Description varchar(200),`  
`C_ID int(10),`  
  
`FOREIGN KEY (C_ID) REFERENCES Classification(C_ID)`  
`);`
- `create table Privilege (`  
`P_name varchar(20) not null,`  
`Staff_num int(10) not null,`  
`Max_item int(10),`  
`Loan_time int(10),`  
`P_num int(10) not null constraint privilege_pk primary key`  
  
`FOREIGN KEY (P_num) REFERENCES Loan(L_num),`  
`FOREIGN KEY (Staff_num) REFERENCES Staff(Snum)`  
`);`
- `create table Classification (`  
`C_ID int(10) not null constraint classification_pk primary key,`  
`C_name varchar(10)`  
`);`

- **INSERTION:**

- 1. Book table:**

INSERT INTO Book VALUES

```
('6901142585','Alan Moore', 'V for Vendetta', 'Quality Communications', 600, ' ', ' ', 111),  
( '90949962', 'Paul Kalanithi', 'When Breath Becomes Air', 'Random House', 500, ' ', ' ', 222),  
( '865349120', 'F. Scott Fitzgerald', 'The Great Gatsby', 'Charles Scribners Sons', 432, ' ', ' ', 333);
```

- 2. Members table:**

INSERT INTO Members VALUES

```
(1111,'Mosa','Ahmed majd','2000-11-22', 'MosaAh21@gmail.com', 'Buridah','student'),  
(1112,'Amerah','Alnasser','2001-5-18', 'A12221@gmail.com', 'Aunizah','student'),  
(1113,'Sarah','suliman','1993-9-10', 'Sarram2680@gmail.com', 'alrass','teacher');
```

- 3. Staff table:**

INSERT INTO Staff VALUES

```
(100, 'Mohamed', 'Ahmed', 27, 'Male', 5000, 'Mohamed123@gmail.com', 2),  
(101, 'Ali', 'Abdoallah', 26, 'Male', 5000, 'ALI1984@gmail.com', 2),  
(102, 'Maha', 'Khalid', 26, 'Female', 5000, 'MAHAA0098@gmail.com', 1),  
(104, 'Asma', 'Mohamed', 25, 'Female', 5000, 'ASMa4453@gmail.com', 1);
```

- 4. Branch table:**

INSERT INTO Branch VALUES

```
(1, " main Section Female Students", "Qassim University – Female Students", 55555, "copy"),  
(2, "Main Section Male Students", "Qassim University – Male Students", 444444, "computers and copy");
```

- 5. Other\_services table:**

INSERT INTO Other\_services VALUES

```
('copy', 'More than 100 copies are produced'),  
( 'computers and copy', 'print the electronic version');
```

- 6. Fines table:**

INSERT INTO Fines VALUES

```
(1, 'paid', 50, 'The Book was not delivered on time'),  
(2, 'paid', 100, 'The Book was delivered in poor condition');
```

## 7. ROOM table:

INSERT INTO ROOM VALUES

```
(201, ' Computer Lab', 'reserved', '4HOURS', 2, ' computers and copy'),  
(202, ' Meeting room ', 'reserved', '2HOURS', 1, ' copy');
```

## 8. Loan table:

INSERT INTO Loan VALUES

```
(1111, '2022-9-22', '2022-10-22', 2, 1),  
(1112, '2022-9-1', '2022-10-1', 1, 2),  
(1113, '2022-5-4', '2022-6-11', 2, 1);
```

## 9. Item table:

INSERT INTO Item VALUES

```
( 0, 'Physical ', 'Quality Communications', ' A frightening and powerful tale of the loss of freedom and identity in a  
chillingly believable totalitarian world, V for Vendetta stands as one of the highest achievements of the comics  
medium and a defining work for creators Alan Moore and David Lloyd.', 111),  
( 1, ' Physical ', 'Random House', ' For readers of Atul Gawande, Andrew Solomon, and Anne Lamott, a profoundly  
moving, exquisitely observed memoir by a young neurosurgeon faced with a terminal cancer diagnosis who  
attempts to answer the question (What makes a life worth living?) ', 222),  
( 2, ' Physical ', 'Charles Scribners Sons', ' the novel depicts first-person narrator Nick Carraway s interactions with  
mysterious millionaire Jay Gatsby and Gatsbys obsession to reunite with his former lover, Daisy Buchanan. ', 333);
```

## 10. Privilege table:

INSERT INTO privilege VALUES

```
(001, 100, 1, 30, 1111),  
(002, 102 ,1, 30, 1112);
```

## 11. Classification table:

INSERT INTO Classification VALUES

```
(111, 'Comics'),  
(222, 'Medical'),  
(333, 'Fiction');
```

## VII. ONLINE LIBRARY

- **HTML, CSS & PHP**  
for login page:

```

<!DOCTYPE html>
<html lang="ar" dir="rtl">
<head>
<title>login</title>
<meta charset="UTF-8">
<link rel="stylesheet" href="login.css">
<!-- icons-->
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
</head>
<body>
<div class="container">
<input type="checkbox" id="flip">
<div class="cover">

</div>
<div class="forms">
<div class="form-content">
<div class="login-form">
<div class="title">تسجيل الدخول</div>
<form action="logincon.php" method="POST">
<div class="input-boxes">
<div class="input-box">
<i class="fas fa-user"></i>
<input type="text" name="user" placeholder="اسم
المستخدم" required>
</div>
<div class="input-box">
<i class="fas fa-lock"></i>
<input type="password" name="password"
placeholder="كلمة المرور" required>
</div>
<div class="button input-box">
<input type="submit" value="تسجيل">
</div>
<div class="text sign-up-text"> لا تملك حساب؟ <label
for="flip"> سجل الان </label></div>
</div>
</form>
</div>
<div class="signup-form">
<div class="title">مستخدم جديد </div>
<form action="connect.php" method="post">
<div class="input-boxes">
<div class="input-box">
<i class="fas fa-user"></i>
<input type="text" name="user" id="user"
placeholder="الاسم " required>
</div>
<div class="input-box">
<i class="fas fa-lock"></i>
<input type="password" name="password"
id="password" placeholder="كلمة المرور" required>
</div>
<div class="button input-box">
<input type="submit" value="تسجيل">
</div>

```

```

background: #829c9aa2; /*img overlay*/
opacity: 0.5;
z-index: 12;}}
.container .cover::after{
opacity: 0.3;
transform: rotateY(180deg);
}
.container .cover img{
position: absolute;
height: 100%;
width: 100%;
object-fit: cover;
z-index: 10;
}
.container .forms{
height: 100%;
width: 100%;
background: #fff;
}
.container .form-content{
display: flex;
align-items: center;
justify-content: space-between; /*imp to make it like 2
containers*/
}
.form-content .login-form,
.form-content .signup-form{
width: 350px;
}
.forms .form-content .title{
position: relative;
font-size: 30px;
color: black;
}
.forms .form-content .input-boxes{
margin-top: 30px; /*spaces under the title*/
}
.forms .form-content .input-box{
display: flex;
align-items: center;
height: 50px;
width: 100%;
margin: 10px 0; /*spaces between inputs*/
position: relative;
}
.form-content .input-box input{
height: 100%;
width: 100%;
outline: none;
border: none;
padding: 0 30px;
font-size: 16px;
border-bottom: 2px solid rgba(0,0,0,0.2);
transition: 0.3s ;
}
.form-content .input-box i{ /*icons*/
position: absolute;
color: #009688;
font-size: 17px;
}
.forms .form-content .button{
color: #fff;
margin-top: 40px;
}

```

```

<div class="text sign-up-text"> لديك حساب بالفعل؟ <label
for="flip"> سجل الدخول </label></div>
</div>
</div>
</div>
</div>
</body>
</html>

```

## • CSS:

```

/*loin page*/
*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
body{
  min-height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  background: #efefef;
  padding: 30px;
}
.container{
  position: relative;
  max-width: 850px;
  width: 100%;
  background: #fff;
  padding: 40px 30px;
  box-shadow: 0 5px 10px rgba(0,0,0,0.2);
  perspective: 2700px; /*motion*/
}
.container .cover{
  position: absolute;
  top: 0;
  left: 50%; /*cover side*/
  height: 100%;
  width: 50%;
  z-index: 98;
  transition: 1s;
  transform-origin: left; /*rotation*/
  transform-style: preserve-3d;
}
.container #flip:checked ~ .cover{ /*matching*/
  transform: rotateY(-180deg);
}
.container .cover .front,
.container .cover .back{
  position: absolute;
  top: 0;
  left: 0;
  height: 100%;
  width: 100%;
}
.cover .back{
  transform: rotateY(180deg);
}
.container .cover::before,
.container .cover::after{
  content: '';
  position: absolute;
  height: 100%;
  width: 100%;
}

```

```

}
.forms .form-content .button input{
  color: #fff;
  background: #009688;
  border-radius: 6px; /*button design befor*/
  padding: 0;
  cursor: pointer;
}
.forms .form-content .button input:hover{
  /*button design after*/
  background: #00786d;
}
.forms .form-content label{
  color: #7d2ae8; /*purple*/
  cursor: pointer; /*show its clickable*/
}
.forms .form-content label:hover{
  text-decoration: underline;
}
.forms .form-content .login-text,
.forms .form-content .sign-up-text{
  text-align: center;
  margin-top: 25px;
}
.container #flip{
  display: none;
}
@media (max-width: 730px) {
  .container .cover{
    display: none;
  }
  .form-content .login-form,
  .form-content .signup-form{
    width: 100%;
  }
  .form-content .signup-form{
    display: none;
  }
  .container #flip:checked ~ .forms .signup-form{
    display: block;
  }
  .container #flip:checked ~ .forms .login-form{
    display: none;
  }
}
}

```

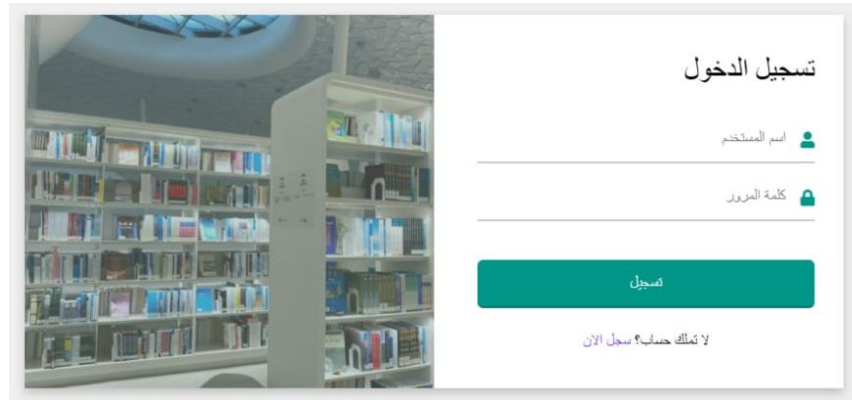
## • PHP:

```

<?php
session_start();
$con = mysqli_connect('localhost','root','','library');
if(isset($_POST['user'])&&isset($_POST['password'])){
  $usern = $_POST['user'];
  $password = $_POST['password'];
  $query = " SELECT * FROM login WHERE user='$usern' &&
password='$password'";
  if(mysqli_num_rows(mysqli_query($con,$query))>1)
  {
    $_SESSION['user']=$row['user'];
    header("Location:vBook.php?=success");
  }
  else{
    echo"اسم المستخدم او كلمة المرور خطأ";
  }
}
?>

```

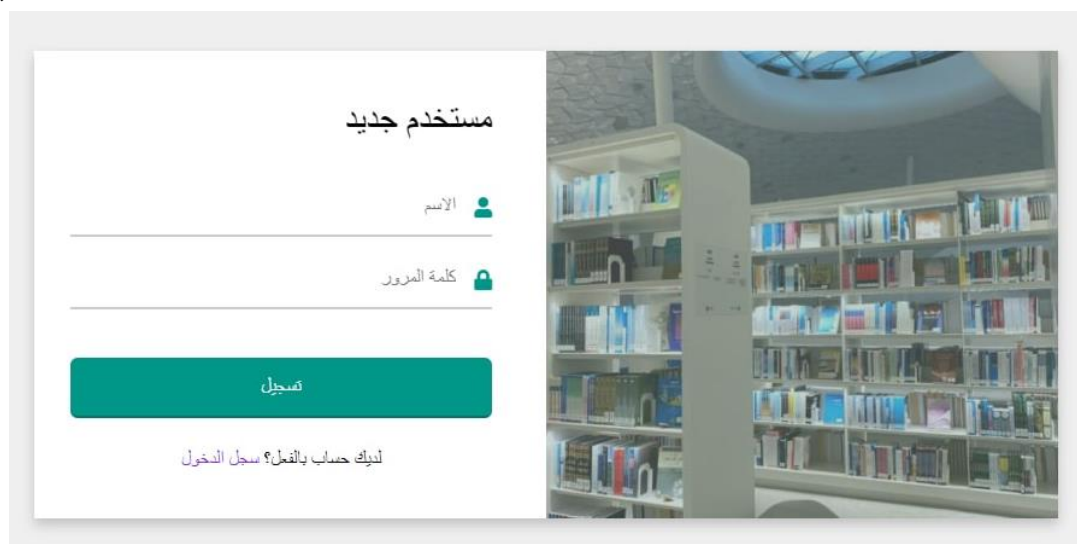
- Login page:



- Registration page:

```
<?php
session_start();
$con = mysqli_connect('localhost','root','','library');
$usererr = $_POST['user'];
$password = $_POST['password'];
$query = " SELECT*FROM logIn WHERE user='$usererr'";
$result=mysqli_query($con,$query);
$resultCheck = mysqli_num_rows($result);
if($resultCheck==1){
    echo "username Already Taken";
}
else{
    $reg ="insert into login (user,password) values ('$usererr','$password')";
    mysqli_query($con,$reg);
    echo "<script type='text/javascript'> alert('تم التسجيل ') </script>";
    header("Location:vBook.php?=success");
}
echo '<meta http-equiv="refresh" content="0; url=login.html" />'

?>
```





- **VBook:**

```

<head>
<meta charset="UTF-8">
<title>View</title>
<style>
body{
    font-family:italic;
}

h2{
    text-align:center;
    margin-top:50px;
    font-size:60px;
}

table{
    border-collapse:collapse;
    margin: 90px 400;
    font-size: 0.9em;
    min-width: 500px;
    border-radius:5px 5px 0 0;
    overflow:hidden;
    box-shadow:0 0 20px rgba(0,0,0,0.15);
}

table thead tr{
    background-color: #009879;
    color:#ffffff;
    text-align:left;
    font-weight:bold;
}

table td{
    padding:12px 15px;
}

table tr{
    border-bottom: 1px solid #dddddd;
}
table tr:last-of-type{
    border-bottom: 2px solid #009879;
}
tr:hover {background-color: #dddddd;}
</style>
</head>
<body>

<div class="background">
<h2> THE TABLES</h2>
<hr style="width:50%">
<?php
$conn = new
mysqli("localhost","root","","library");

```

### #The first query

```

$stmt=$conn->prepare("SELECT * FROM vBookStatus ");
$stmt->execute();
$result=$stmt->get_result();
echo "<table >";
echo "<thead><tr><td>". " ISBN ". "</td> <td>". " B_State
". "</td> <td>".
" B_Author ". "</td> <td>". " Locations ". "</td>
</thead></tr>";
while ($row =$result->fetch_assoc()){
    echo "<tr> <td>". $row['isbn']. "</td>
<td>". $row['B_State']. "</td>
<td>". $row['B_Author']. "</td>
<td>". $row['Locations']. "</td> </tr>";
}
echo "</table>";

```

### # the second query

```

$stmt=$conn->prepare("SELECT Snum,Fname,Lname,Salary
FROM Staff ");
$stmt->execute();
$result=$stmt->get_result();
echo "<table >";
echo "<thead><tr><td>". "Snum". "</td> <td>". "
Fname". "</td> <td>".
" Lname ". "</td> <td>". " Salary ". "</td>
</thead></tr>";
while ($row =$result->fetch_assoc()){
    echo "<tr> <td>". $row['Snum']. "</td>
<td>". $row['Fname']. "</td>
<td>". $row['Lname']. "</td>
<td>". $row['Salary']. "</td> </tr>";
}
echo "</table>";

```

### # the third query

```

$stmt=$conn->prepare("SELECT
B_Title,B_Author,B_Publisher,B_Copies FROM Book ");
$stmt->execute();
$result=$stmt->get_result();
echo "<table >";
echo "<thead><tr><td>". "B_Title". "</td> <td>". "
B_Author". "</td> <td>".
" B_Publisher ". "</td> <td>". " B_Copies ". "</td>
</thead></tr>";
while ($row =$result->fetch_assoc()){
    echo "<tr> <td>". $row['B_Title']. "</td>
<td>". $row['B_Author']. "</td>
<td>". $row['B_Publisher']. "</td>
<td>". $row['B_Copies']. "</td> </tr>";
}
echo "</table>"
?></div>
</body> </html>

```

## VIII. VIEW:

localhost/ITproject/vBook.php

# THE TABLES

| ISBN       | B_State   | B_Author   | Locations                           |
|------------|-----------|------------|-------------------------------------|
| 2147483647 | Available | Alan Moore | Qassim University – Female Students |
| 2147483647 | Available | Alan Moore | Qassim University – Male Students   |

| Snum | Fname   | Lname     | Salary |
|------|---------|-----------|--------|
| 100  | Mohamed | Ahmed     | 5000   |
| 101  | Ali     | Abdoallah | 5000   |
| 102  | Maha    | Khalid    | 5000   |
| 104  | Asma    | Mohamed   | 5000   |

| B_Title                 | B_Author            | B_Publisher            | B_Copies |
|-------------------------|---------------------|------------------------|----------|
| When Breath Becomes Air | Paul Kalanithi      | Random House           | 500      |
| The Great Gatsby        | F. Scott Fitzgerald | Charles Scribners Sons | 432      |
| V for Vendetta          | Alan Moore          | Quality Communications | 600      |

```
create or replace view vBookStatus
as
select
    isbn, B_State, B_Author, Locations
from
    Book, Branch
where B_State= 'Available';
```

## IX. ROLE

```
CREATE ROLE BookRole;

GRANT select ON vBookStatus TO BookRole;
```

✓ قام MySQL بإرجاع نتيجة فارغة (استغرق الاستعلام 0.0067 ثانية)

```
CREATE ROLE BookRole;
```

[ PHP كود ] [ تعديل ] [ Edit inline ]

✓ قام MySQL بإرجاع نتيجة فارغة (استغرق الاستعلام 0.0039 ثانية)

```
GRANT select on vBookStatus to BookRole;
```

[ PHP كود ] [ تعديل ] [ Edit inline ]

## X. TABLES

- Book table:

| C_ID | type_state | B_state       | B_COPIES | B_PUBLISHER            | B_TITLE                 | B_AUTHER            | ISBN       |
|------|------------|---------------|----------|------------------------|-------------------------|---------------------|------------|
| 222  |            | Not-Available | 500      | Random House           | When Breath Becomes Air | Paul Kalanithi      | 90949962   |
| 333  |            | Available     | 432      | Charles Scribners Sons | The Great Gatsby        | F. Scott Fitzgerald | 865349120  |
| 111  |            | Available     | 600      | Quality Communications | V for Vendetta          | Alan Moore          | 2147483647 |

- Members Table:

| Member_type | Address | Email                | Birth_Date | Lname      | Fname  | ID   |
|-------------|---------|----------------------|------------|------------|--------|------|
| student     | Buridah | MosaAh21@gmail.com   | 2000-11-22 | Ahmed majd | Mosa   | 1111 |
| student     | Aunizah | A12221@gmail.com     | 2001-05-18 | Alnasser   | Amerah | 1112 |
| teacher     | alrass  | Sarram2680@gmail.com | 1993-09-10 | suliman    | Sarah  | 1113 |

- Staff Table:

| B_num | Email                | Salary | Gender | Age | Lname     | Fname   | Snum |
|-------|----------------------|--------|--------|-----|-----------|---------|------|
| 2     | Mohamed123@gmail.com | 5000   | Male   | 27  | Ahmed     | Mohamed | 100  |
| 2     | ALI1984@gmail.com    | 5000   | Male   | 26  | Abdoallah | Ali     | 101  |
| 1     | MAHAA0098@gmail.com  | 5000   | Female | 26  | Khalid    | Maha    | 102  |
| 1     | ASMa4453@gmail.com   | 5000   | Female | 25  | Mohamed   | Asma    | 104  |

- Brach Table:

| Branch_service     | phone  | Locations                           | Branch_name                  | Branch_num |
|--------------------|--------|-------------------------------------|------------------------------|------------|
| copy               | 55555  | Qassim University – Female Students | main Section Female Students | 1          |
| computers and copy | 444444 | Qassim University – Male Students   | Main Section Male Students   | 2          |

- Other\_services Table:

| S_Description                     | Service            |
|-----------------------------------|--------------------|
| print the electronic version      | computers and copy |
| More than 100 copies are produced | copy               |

- Fines Table:

| Description                              | Amount | State | Fine_num |
|------------------------------------------|--------|-------|----------|
| The Book was not delivered on time       | 50     | paid  | 1        |
| The Book was delivered in poor condition | 100    | paid  | 2        |

- Room Table:

| Service_name       | B_num | Stay_time | Room_state | Room_type    | Room_num |
|--------------------|-------|-----------|------------|--------------|----------|
| computers and copy | 2     | 4HOURS    | reserved   | Computer Lab | 201      |
| copy               | 1     | 2HOURS    | reserved   | Meeting room | 202      |

- Loan Table:

| Fines_num | B_num | Due_date   | Date_loaned | L_num |
|-----------|-------|------------|-------------|-------|
| 1         | 2     | 2022-10-22 | 2022-09-22  | 1111  |
| 2         | 1     | 2022-10-01 | 2022-09-01  | 1112  |
| 1         | 2     | 2022-06-11 | 2022-05-04  | 1113  |

- Item Table:

| C_ID | Description                                          | Publisher            | Item_type | Item_num |
|------|------------------------------------------------------|----------------------|-----------|----------|
| 111  | ...A frightening and powerful tale of the loss of fr | Quality Communicatio | Physical  | 0        |
| 222  | ... For readers of Atul Gawande, Andrew Solomon, and | Random House         | Physical  | 1        |
| 333  | ...the novel depicts first-person narrator Nick Carr | Charles Scribners So | Physical  | 2        |

- Privilege Table:

| P_num | Loan_time | Max_item | Staff_num | P_name |
|-------|-----------|----------|-----------|--------|
| 1111  | 30        | 1        | 100       | 1      |
| 1112  | 30        | 1        | 102       | 2      |

- Classification Table:

| C_name  | C_ID |
|---------|------|
| Comics  | 111  |
| Medical | 222  |
| Fiction | 333  |

- Login page database:

| password | user  |     |     |       |                          |
|----------|-------|-----|-----|-------|--------------------------|
| 1234     | NORA  | حذف | نسخ | تعديل | <input type="checkbox"/> |
| 1234     | RAWAN | حذف | نسخ | تعديل | <input type="checkbox"/> |
| 1234     | THANA | حذف | نسخ | تعديل | <input type="checkbox"/> |
| 1234     | WEHAD | حذف | نسخ | تعديل | <input type="checkbox"/> |