

**DIGITALINNOVATORPROGRAMME(DIP)**

**COMPUTER SCIENCE I PSCS2014**

# COMPUTERSCIENCE

**SEMESTER 2 PART 2**

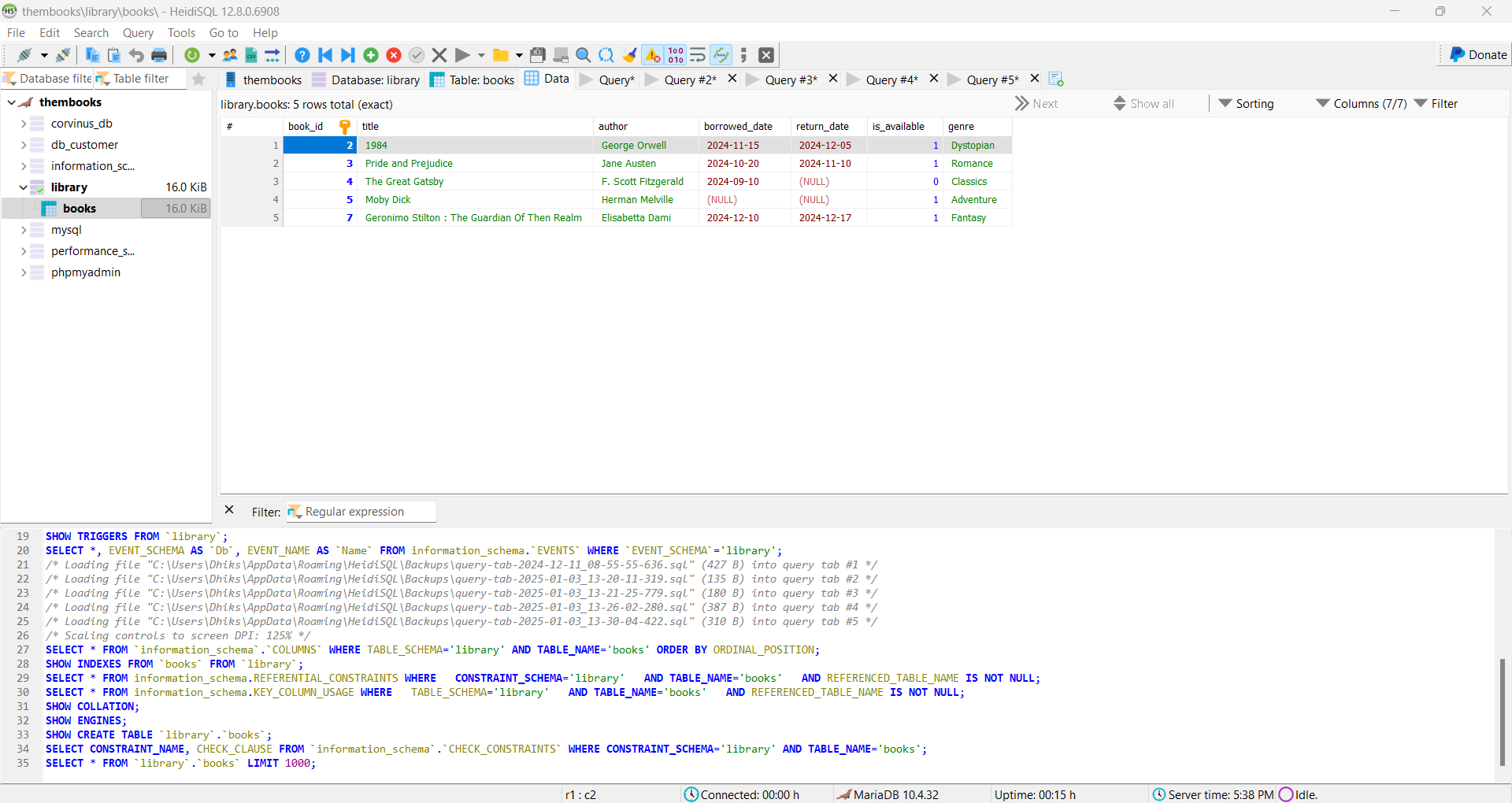
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

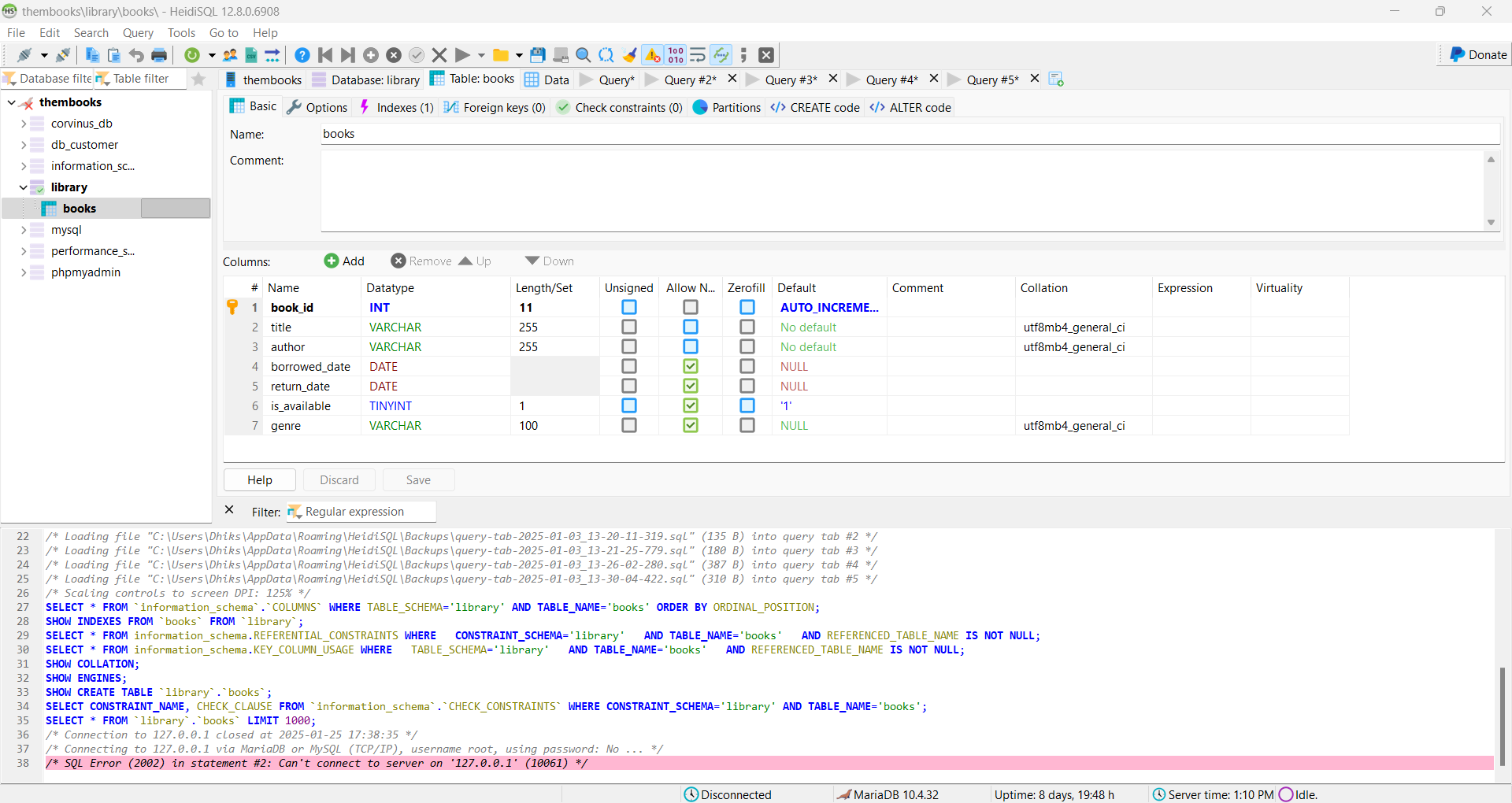
**TASK 3 (10% CARRYMARKS)**

**SQL EXERCISE : LIBRARY DATABASE**

***Documentation***

***SQL***

******

******

***Front End***

***Public.php***

<?php  
  
$host = 'localhost';  
$user = 'root';  
$password = '';  
$dbname = 'library';  
  
$conn = **new** mysqli($host, $user, $password, $dbname);  
  
**if** ($conn->connect\_error) {  
    **die**("Connection failed: " . $conn->connect\_error);  
}  
  
  
**if** (**isset**($\_POST['filter'])) {  
    $filterColumn = $\_POST['filter\_column'];  
    $filterValue = $\_POST['filter\_value'];  
  
    **if** ($filterColumn === 'all') {  
        $query = "SELECT \* FROM books";  
    } **else** {  
       
        $query = "SELECT \* FROM books WHERE LOWER($filterColumn) LIKE LOWER('%$filterValue%')";  
    }  
} **else** {    $query = "SELECT \* FROM books";  
}  
  
$result = $conn->query($query);  
?>  
  
<!DOCTYPE html>  
<**html** lang="en">  
<**head**>  
    <**meta** charset="UTF-8">  
    <**meta** name="viewport" content="width=device-width, initial-scale=1.0">  
    <**title**>Library Management - Public View</**title**>  
    <**style**>  
  
        **body**, **h1**, **h2**, **table** {  
            **margin**: 0;  
            **padding**: 0;  
            **font-family**: 'Arial', sans-serif;  
            **box-sizing**: border-box;  
        }  
  
        **body** {  
            **background-color**: #f5f5f5;  
            **color**: #333;  
            **line-height**: 1.6;  
            **padding**: 20px;  
        }  
  
        **h1**, **h2** {  
            **color**: #2c3e50;  
            **text-align**: center;  
            **margin-bottom**: 20px;  
        }  
  
        **h2** {  
            **margin-top**: 40px;  
        }  
  
        **form** {  
            **background-color**: #fff;  
            **padding**: 20px;  
            **border-radius**: 8px;  
            **box-shadow**: 0 4px 10px rgba(0, 0, 0, 0.1);  
            **margin**: 0 auto;  
            **max-width**: 600px;  
            **margin-bottom**: 40px;  
        }  
  
        **label** {  
            **font-weight**: bold;  
            **margin-bottom**: 8px;  
            **display**: block;  
            **color**: #333;  
        }  
  
        **input**[type="text"], **input**[type="date"], **select**, **button** {  
            **width**: 100%;  
            **padding**: 10px;  
            **margin-bottom**: 15px;  
            **border**: 2px solid #ddd;  
            **border-radius**: 5px;  
            **font-size**: 16px;  
        }  
  
        **input**[type="text"]:focus, **input**[type="date"]:focus, **select**:focus, **button**:focus {  
            **border-color**: #3498db;  
            **outline**: none;  
        }  
  
        **button** {  
            **background-color**: #3498db;  
            **color**: white;  
            **font-size**: 16px;  
            **cursor**: pointer;  
            **border**: none;  
            **transition**: background-color 0.3s;  
        }  
  
        **button**:hover {  
            **background-color**: #2980b9;  
        }  
  
        **table** {  
            **width**: 100%;  
            **border-collapse**: collapse;  
            **margin-top**: 20px;  
        }  
  
        **th**, **td** {  
            **padding**: 12px;  
            **text-align**: left;  
            **border-bottom**: 1px solid #ddd;  
        }  
  
        **th** {  
            **background-color**: #3498db;  
            **color**: white;  
        }  
  
        **td** {  
            **background-color**: #fafafa;  
        }  
  
        **tr**:nth-child(even) **td** {  
            **background-color**: #f9f9f9;  
        }  
  
        **tr**:hover **td** {  
            **background-color**: #f1f1f1;  
        }  
  
        **a** {  
            **color**: #3498db;  
            **text-decoration**: none;  
            **font-weight**: bold;  
            **margin-right**: 15px;  
        }  
  
        **a**:hover {  
            **text-decoration**: underline;  
        }  
  
        @**media** (max-width: 768px) {  
            **body** {  
                **padding**: 10px;  
            }  
  
            **form** {  
                **padding**: 15px;  
                **width**: 100%;  
            }  
  
            **table** {  
                **font-size**: 14px;  
            }  
  
            **button** {  
                **font-size**: 14px;  
            }  
        }  
  
        \* {  
        **margin**: 0;  
        **padding**: 0;  
        **box-sizing**: border-box;  
    }  
  
    /\* Sticky Navbar \*/  
    **nav** {  
        **background-color**: #3498db;  
        **padding**: 15px 20px;  
        **position**: fixed;  
        **width**: 100%;  
        **top**: 0;  
        **left**: 0;  
        **z-index**: 999;  
        **box-shadow**: 0 4px 10px rgba(0, 0, 0, 0.1);  
    }  
  
    **nav** **ul** {  
        **list-style**: none;  
        **display**: flex;  
        **justify-content**: space-between;  
        **align-items**: center;  
    }  
  
    **nav** **ul** **li** {  
        **margin**: 0 15px;  
    }  
  
    **nav** **a** {  
        **color**: white;  
        **text-decoration**: none;  
        **font-size**: 18px;  
        **font-weight**: bold;  
        **transition**: color 0.3s ease;  
    }  
  
    **nav** **a**:hover {  
        **color**:rgb(0, 0, 0);  
    }  
  
    /\* Center the logo and nav links \*/  
    .logo {  
        **font-size**: 24px;  
        **font-weight**: bold;  
    }  
  
    .nav-links {  
        **display**: flex;  
        **align-items**: center;  
    }  
  
    .nav-links **li** {  
        **margin**: 0 10px;  
    }  
  
    /\* For Mobile Responsiveness \*/  
    @**media** (max-width: 768px) {  
        **nav** **ul** {  
            **flex-direction**: column;  
            **text-align**: center;  
        }  
  
        .nav-links **li** {  
            **margin**: 10px 0;  
        }  
    }

    **body** {  
        **padding-top**: 80px;  
    }  
    </**style**>  
</**head**>  
<**body**>  
  
<**nav**>  
    <**ul**>  
        <**li** class="logo"><**a** href="public.php">Library</**a**></**li**>  
        <**ul** class="nav-links">  
            <**li**><**a** href="login.php">Admin Login</**a**></**li**>  
        </**ul**>  
    </**ul**>  
</**nav**>  
  
    <**h1**>Welcome to the Library</**h1**>  
  
     
    <**h2**>Filter Library Books</**h2**>  
<**form** action="<?php echo basename($\_SERVER['PHP\_SELF']); ?>" method="POST">  
    <**label** for="filter\_column">Filter By:</**label**>  
    <**select** name="filter\_column" id="filter\_column">  
        <**option** value="all">All Books</**option**>  
        <**option** value="title">Title</**option**>  
        <**option** value="author">Author</**option**>  
        <**option** value="genre">Genre</**option**>  
        <**option** value="is\_available">Availability</**option**>  
    </**select**>  
    <**label** for="filter\_value">Value:</**label**>  
    <**input** type="text" name="filter\_value" id="filter\_value" placeholder="Enter filter value">  
    <**button** type="submit" name="filter">Filter</**button**>  
</**form**>  
  
  
    <**h2**>Available Books</**h2**>  
    <**table** border="1">  
        <**tr**>  
            <**th**>Book ID</**th**>  
            <**th**>Title</**th**>  
            <**th**>Author</**th**>  
            <**th**>Borrowed Date</**th**>  
            <**th**>Return Date</**th**>  
            <**th**>Availability</**th**>  
            <**th**>Genre</**th**>  
        </**tr**>  
  
        <?php  
        // Display books  
        **if** ($result && $result->num\_rows > 0) {  
            **while** ($book = $result->fetch\_assoc()) {  
                **echo** "<tr>  
                    <td>{$book['book\_id']}</td>  
                    <td>{$book['title']}</td>  
                    <td>{$book['author']}</td>  
                    <td>{$book['borrowed\_date']}</td>  
                    <td>{$book['return\_date']}</td>  
                    <td>" . ($book['is\_available'] ? 'Available' : 'Not Available') . "</td>  
                    <td>{$book['genre']}</td>  
                </tr>";  
            }  
        } **else** {  
            **echo** "<tr><td colspan='7'>No results found</td></tr>";  
        }  
  
        $conn->close();  
        ?>  
    </**table**>  
</**body**>  
</**html**>

***login.php***

<?php  
session\_start();  
  
  
$correct\_password = "admin123";  
  
**if** ($\_SERVER['REQUEST\_METHOD'] == 'POST') {  
    **if** ($\_POST['password'] == $correct\_password) {  
        $\_SESSION['authenticated'] = **true**;  
        header('Location: admin.php');  
        **exit**;  
    } **else** {  
        $error = "Incorrect password.";  
    }  
}  
?>  
  
<!DOCTYPE html>  
<**html** lang="en">  
<**head**>  
    <**meta** charset="UTF-8">  
    <**meta** name="viewport" content="width=device-width, initial-scale=1.0">  
    <**title**>Admin Login</**title**>  
    <**link** rel="stylesheet" href="nav.css">  
  
    <**style**>  
  
    **body**, **h1**, **h2**, **table**, **input**, **button** {  
        **margin**: 0;  
        **padding**: 0;  
        **font-family**: 'Arial', sans-serif;  
        **box-sizing**: border-box;  
    }  
  
    /\* Page Background \*/  
    **body** {  
        **background-color**: #f5f5f5;  
        **color**: #333;  
        **line-height**: 1.6;  
        **padding**: 20px;  
        **display**: flex;  
        **justify-content**: center;  
        **align-items**: center;  
        **height**: 100vh;  
        **flex-direction**: column;  
    }  
  
    **h1** {  
        **font-size**: 2rem;  
        **margin-bottom**: 20px;  
        **color**: #2c3e50;  
    }  
  
    **h2** {  
        **color**: #2c3e50;  
        **text-align**: center;  
        **margin-bottom**: 20px;  
    }  
  
  
    **form** {  
        **background-color**: #fff;  
        **padding**: 30px;  
        **border-radius**: 8px;  
        **box-shadow**: 0 4px 10px rgba(0, 0, 0, 0.1);  
        **margin-bottom**: 40px;  
        **width**: 100%;  
        **max-width**: 400px;  
    }  
  
    **label** {  
        **font-weight**: bold;  
        **margin-bottom**: 8px;  
        **display**: block;  
        **color**: #333;  
    }  
  
    **input**[type="text"], **input**[type="password"], **input**[type="date"], **select**, **button** {  
        **width**: 100%;  
        **padding**: 12px;  
        **margin-bottom**: 15px;  
        **border**: 2px solid #ddd;  
        **border-radius**: 5px;  
        **font-size**: 16px;  
    }  
  
    **input**[type="text"]:focus, **input**[type="password"]:focus, **input**[type="date"]:focus, **select**:focus, **button**:focus {  
        **border-color**: #3498db;  
        **outline**: none;  
    }  
  
    **button** {  
        **background-color**: #3498db;  
        **color**: white;  
        **font-size**: 16px;  
        **cursor**: pointer;  
        **border**: none;  
        **transition**: background-color 0.3s;  
        **padding**: 12px;  
        **border-radius**: 5px;  
    }  
  
    **button**:hover {  
        **background-color**: #2980b9;  
    }  
  
    **input**[type="text"]:focus, **input**[type="password"]:focus {  
        **border-color**: #3498db;  
        **box-shadow**: 0 0 5px rgba(52, 152, 219, 0.3);  
    }  
  
    **table** {  
        **width**: 100%;  
        **border-collapse**: collapse;  
        **margin-top**: 20px;  
    }  
  
    **th**, **td** {  
        **padding**: 12px;  
        **text-align**: left;  
        **border-bottom**: 1px solid #ddd;  
    }  
  
    **th** {  
        **background-color**: #3498db;  
        **color**: white;  
    }  
  
    **td** {  
        **background-color**: #fafafa;  
    }  
  
    **tr**:nth-child(even) **td** {  
        **background-color**: #f9f9f9;  
    }  
  
    **tr**:hover **td** {  
        **background-color**: #f1f1f1;  
    }  
  
    **a** {  
        **color**: #3498db;  
        **text-decoration**: none;  
        **font-weight**: bold;  
        **margin-right**: 15px;  
    }  
  
    **a**:hover {  
        **text-decoration**: underline;  
    }  
  
  
    @**media** (max-width: 768px) {  
        **body** {  
            **padding**: 10px;  
        }  
  
        **form** {  
            **padding**: 20px;  
            **width**: 100%;  
        }  
  
        **button** {  
            **font-size**: 14px;  
        }  
  
        **table** {  
            **font-size**: 14px;  
        }  
    }  
</**style**>  
  
</**head**>  
<**body**>  
  
<**nav**>  
    <**ul**>  
        <**li** class="logo"><**a** href="public.php">Library</**a**></**li**>  
        <**ul** class="nav-links">  
            <?php  
             
            **if** (basename($\_SERVER['PHP\_SELF']) == 'login.php') {  
                 
                **echo** '<li><a href="login.php">Admin Login</a></li>';  
            } **elseif** (basename($\_SERVER['PHP\_SELF']) == 'admin.php') {  
                // On the admin page, show Back to Public  
                **echo** '<li><a href="public.php">Back to Public</a></li>';  
            } **elseif** (basename($\_SERVER['PHP\_SELF']) == 'edit.php') {  
                // On the edit page, show Back to Public  
                **echo** '<li><a href="public.php">Back to Public</a></li>';  
            } **else** {  
                // Default state for all other pages, show Admin Login  
                **echo** '<li><a href="login.php">Admin Login</a></li>';  
            }  
            ?>  
        </**ul**>  
    </**ul**>  
</**nav**>  
  
    <**h1**>Admin Login</**h1**>  
    <?php **if** (**isset**($error)) { **echo** "<p style='color:red;'>$error</p>"; } ?>  
    <**form** method="POST">  
        <**label** for="password">Password:</**label**>  
        <**input** type="password" name="password" required>  
        <**button** type="submit">Login</**button**>  
    </**form**>  
</**body**>  
</**html**>

***admin.php***

<?php  
session\_start();  
  
// Check if the user is authenticated  
**if** (!**isset**($\_SESSION['authenticated']) || $\_SESSION['authenticated'] !== **true**) {  
    header('Location: login.php');  
    **exit**;  
}  
  
// Database connection details  
$host = 'localhost';  
$user = 'root';  
$password = '';  
$dbname = 'library';  
  
$conn = **new** mysqli($host, $user, $password, $dbname);  
  
**if** ($conn->connect\_error) {  
    **die**("Connection failed: " . $conn->connect\_error);  
}  
  
// Handle filtering books  
**if** (**isset**($\_POST['filter'])) {  
    $filterColumn = $\_POST['filter\_column'];  
    $filterValue = $\_POST['filter\_value'];  
  
    **if** ($filterColumn === 'all') {  
        $query = "SELECT \* FROM books";  
    } **else** {  
        $query = "SELECT \* FROM books WHERE LOWER($filterColumn) LIKE LOWER('%$filterValue%')";  
    }  
} **else** {  
    $query = "SELECT \* FROM books";  
}  
  
$result = $conn->query($query);  
  
// Handle Add Book  
**if** (**isset**($\_POST['add'])) {  
    $title = $\_POST['title'];  
    $author = $\_POST['author'];  
    $borrowedDate = $\_POST['borrowed\_date'];  
    $returnDate = $\_POST['return\_date'];  
    $isAvailable = $\_POST['is\_available'];  
    $genre = $\_POST['genre'];  
  
    $addQuery = "INSERT INTO books (title, author, borrowed\_date, return\_date, is\_available, genre)   
                 VALUES ('$title', '$author', '$borrowedDate', '$returnDate', '$isAvailable', '$genre')";  
    $conn->query($addQuery);  
    header("Location: admin.php"); // Refresh the page  
}  
  
// Handle Delete Book  
**if** (**isset**($\_GET['delete'])) {  
    $bookId = $\_GET['delete'];  
    $deleteQuery = "DELETE FROM books WHERE book\_id = $bookId";  
    $conn->query($deleteQuery);  
    header("Location: admin.php"); // Refresh the page  
}  
  
// Handle Edit Book  
**if** (**isset**($\_POST['edit'])) {  
    $bookId = $\_POST['book\_id'];  
    $title = $\_POST['title'];  
    $author = $\_POST['author'];  
    $borrowedDate = $\_POST['borrowed\_date'];  
    $returnDate = $\_POST['return\_date'];  
    $isAvailable = $\_POST['is\_available'];  
    $genre = $\_POST['genre'];  
  
    $editQuery = "UPDATE books   
                  SET title = '$title', author = '$author', borrowed\_date = '$borrowedDate',   
                      return\_date = '$returnDate', is\_available = '$isAvailable', genre = '$genre'   
                  WHERE book\_id = $bookId";  
    $conn->query($editQuery);  
    header("Location: admin.php"); // Refresh the page  
}  
  
?>  
  
<!DOCTYPE html>  
<**html** lang="en">  
<**head**>  
    <**meta** charset="UTF-8">  
    <**meta** name="viewport" content="width=device-width, initial-scale=1.0">  
    <**title**>Library Management - Admin</**title**>  
    <**link** rel="stylesheet" href="nav.css">  
    <**style**>  
        /\* Add your CSS styling here (as shown in previous examples) \*/  
        **body**, **h1**, **h2**, **table** {  
            **margin**: 0;  
            **padding**: 0;  
            **font-family**: 'Arial', sans-serif;  
            **box-sizing**: border-box;  
        }  
  
        **body** {  
            **background-color**: #f5f5f5;  
            **color**: #333;  
            **line-height**: 1.6;  
            **padding**: 20px;  
        }  
  
        **h1**, **h2** {  
            **color**: #2c3e50;  
            **text-align**: center;  
            **margin-bottom**: 20px;  
        }  
  
        **h2** {  
            **margin-top**: 40px;  
        }  
  
        **form** {  
            **background-color**: #fff;  
            **padding**: 20px;  
            **border-radius**: 8px;  
            **box-shadow**: 0 4px 10px rgba(0, 0, 0, 0.1);  
            **margin**: 0 auto;  
            **max-width**: 600px;  
            **margin-bottom**: 40px;  
        }  
  
        **label** {  
            **font-weight**: bold;  
            **margin-bottom**: 8px;  
            **display**: block;  
            **color**: #333;  
        }  
  
        **input**[type="text"], **input**[type="date"], **select**, **button** {  
            **width**: 100%;  
            **padding**: 10px;  
            **margin-bottom**: 15px;  
            **border**: 2px solid #ddd;  
            **border-radius**: 5px;  
            **font-size**: 16px;  
        }  
  
        **input**[type="text"]:focus, **input**[type="date"]:focus, **select**:focus, **button**:focus {  
            **border-color**: #3498db;  
            **outline**: none;  
        }  
  
        **button** {  
            **background-color**: #3498db;  
            **color**: white;  
            **font-size**: 16px;  
            **cursor**: pointer;  
            **border**: none;  
            **transition**: background-color 0.3s;  
        }  
  
        **button**:hover {  
            **background-color**: #2980b9;  
        }  
  
        **table** {  
            **width**: 100%;  
            **border-collapse**: collapse;  
            **margin-top**: 20px;  
        }  
  
        **th**, **td** {  
            **padding**: 12px;  
            **text-align**: left;  
            **border-bottom**: 1px solid #ddd;  
        }  
  
        **th** {  
            **background-color**: #3498db;  
            **color**: white;  
        }  
  
        **td** {  
            **background-color**: #fafafa;  
        }  
  
        **tr**:nth-child(even) **td** {  
            **background-color**: #f9f9f9;  
        }  
  
        **tr**:hover **td** {  
            **background-color**: #f1f1f1;  
        }  
  
        **a** {  
            **color**: #3498db;  
            **text-decoration**: none;  
            **font-weight**: bold;  
            **margin-right**: 15px;  
        }  
  
        **a**:hover {  
            **text-decoration**: underline;  
        }  
  
        @**media** (max-width: 768px) {  
            **body** {  
                **padding**: 10px;  
            }  
  
            **form** {  
                **padding**: 15px;  
                **width**: 100%;  
            }  
  
            **table** {  
                **font-size**: 14px;  
            }  
  
            **button** {  
                **font-size**: 14px;  
            }  
        }  
    </**style**>  
</**head**>  
<**body**>  
  
<**nav**>  
    <**ul**>  
        <**li** class="logo"><**a** href="public.php">Library</**a**></**li**>  
        <**ul** class="nav-links">  
            <?php  
            // Show links based on the current page  
            **if** (basename($\_SERVER['PHP\_SELF']) == 'login.php') {  
                // On the login page, show only Admin Login  
                **echo** '<li><a href="login.php">Admin Login</a></li>';  
            } **elseif** (basename($\_SERVER['PHP\_SELF']) == 'admin.php') {  
                // On the admin page, show Back to Public  
                **echo** '<li><a href="public.php">Back to Public</a></li>';  
            } **elseif** (basename($\_SERVER['PHP\_SELF']) == 'edit.php') {  
                // On the edit page, show Back to Public  
                **echo** '<li><a href="public.php">Back to Public</a></li>';  
            } **else** {  
                // Default state for all other pages, show Admin Login  
                **echo** '<li><a href="login.php">Admin Login</a></li>';  
            }  
            ?>  
        </**ul**>  
    </**ul**>  
</**nav**>  
  
    <**h1**>Welcome, Admin!</**h1**>  
  
    <**p**><**a** href="logout.php">Logout</**a**></**p**>  
  
    <!-- Filter Form -->  
<**h2**>Filter Library Books</**h2**>  
<**form** action="admin.php" method="POST">  
    <**label** for="filter\_column">Filter By:</**label**>  
    <**select** name="filter\_column" id="filter\_column">  
        <**option** value="all">All Books</**option**>  
        <**option** value="title">Title</**option**>  
        <**option** value="author">Author</**option**>  
        <**option** value="genre">Genre</**option**>  
        <**option** value="is\_available">Availability</**option**>  
    </**select**>  
    <**label** for="filter\_value">Value:</**label**>  
    <**input** type="text" name="filter\_value" id="filter\_value" placeholder="Enter filter value">  
    <**button** type="submit" name="filter">Filter</**button**>  
</**form**>  
  
<!-- Add Book Form -->  
<**h2**>Add a New Book</**h2**>  
    <**form** action="admin.php" method="POST">  
        <**label** for="title">Title:</**label**>  
        <**input** type="text" name="title" id="title" required><**br**><**br**>  
  
        <**label** for="author">Author:</**label**>  
        <**input** type="text" name="author" id="author" required><**br**><**br**>  
  
        <**label** for="borrowed\_date">Borrowed Date (YYYY-MM-DD):</**label**>  
        <**input** type="date" name="borrowed\_date" id="borrowed\_date"><**br**><**br**>  
  
        <**label** for="return\_date">Return Date (YYYY-MM-DD):</**label**>  
        <**input** type="date" name="return\_date" id="return\_date"><**br**><**br**>  
  
        <**label** for="is\_available">Availability:</**label**>  
        <**select** name="is\_available" id="is\_available">  
            <**option** value="1">Available</**option**>  
            <**option** value="0">Not Available</**option**>  
        </**select**><**br**><**br**>  
  
        <**label** for="genre">Genre:</**label**>  
        <**input** type="text" name="genre" id="genre" required><**br**><**br**>  
  
        <**button** type="submit" name="add">Add Book</**button**>  
    </**form**>  
  
<!-- Display Results -->  
<**h2**>Results</**h2**>  
<**table** border="1">  
    <**tr**>  
        <**th**>Book ID</**th**>  
        <**th**>Title</**th**>  
        <**th**>Author</**th**>  
        <**th**>Borrowed Date</**th**>  
        <**th**>Return Date</**th**>  
        <**th**>Availability</**th**>  
        <**th**>Genre</**th**>  
        <**th**>Actions</**th**>  
    </**tr**>  
  
    <?php  
    **if** ($result && $result->num\_rows > 0) {  
        **while** ($book = $result->fetch\_assoc()) {  
            **echo** "<tr>  
                <td>{$book['book\_id']}</td>  
                <td>{$book['title']}</td>  
                <td>{$book['author']}</td>  
                <td>{$book['borrowed\_date']}</td>  
                <td>{$book['return\_date']}</td>  
                <td>" . ($book['is\_available'] ? 'Available' : 'Not Available') . "</td>  
                <td>{$book['genre']}</td>  
                <td>  
                    <a href='admin.php?delete={$book['book\_id']}'>Delete</a> |   
                    <a href='edit.php?edit={$book['book\_id']}'>Edit</a>  
                </td>  
            </tr>";  
        }  
    } **else** {  
        **echo** "<tr><td colspan='8'>No results found</td></tr>";  
    }  
  
    $conn->close();  
    ?>  
</**table**>  
</**body**>  
</**html**>

***logout.php***

<?php  
session\_start();  
session\_destroy(); // Destroy all sessions  
header('Location: login.php'); // Redirect to login page  
**exit**;  
?>

***edit.php***

<?php  
$host = 'localhost';  
$user = 'root';  
$password = '';  
$dbname = 'library';  
  
$conn = **new** mysqli($host, $user, $password, $dbname);  
  
**if** ($conn->connect\_error) {  
    **die**("Connection failed: " . $conn->connect\_error);  
}  
  
**if** (**isset**($\_GET['edit'])) {  
    $bookId = $\_GET['edit'];  
    $query = "SELECT \* FROM books WHERE book\_id = $bookId";  
    $result = $conn->query($query);  
    $book = $result->fetch\_assoc();  
}  
  
**if** (**isset**($\_POST['update'])) {  
    $bookId = $\_POST['book\_id'];  
    $title = $\_POST['title'];  
    $author = $\_POST['author'];  
    $borrowedDate = $\_POST['borrowed\_date'];  
    $returnDate = $\_POST['return\_date'];  
    $isAvailable = $\_POST['is\_available'];  
    $genre = $\_POST['genre'];  
  
    $updateQuery = "UPDATE books   
                    SET title = '$title', author = '$author', borrowed\_date = '$borrowedDate',   
                        return\_date = '$returnDate', is\_available = '$isAvailable', genre = '$genre'   
                    WHERE book\_id = $bookId";  
    $conn->query($updateQuery);  
    header("Location: public.php");  
}  
  
$conn->close();  
?>  
  
<!DOCTYPE html>  
<**html** lang="en">  
<**head**>  
    <**meta** charset="UTF-8">  
    <**meta** name="viewport" content="width=device-width, initial-scale=1.0">  
    <**title**>Edit Book</**title**>  
    <**link** rel="stylesheet" href="nav.css">  
  
    <**style**>  
    /\* Reset some default styles \*/  
    **body**, **h1**, **h2**, **table**, **input**, **button** {  
        **margin**: 0;  
        **padding**: 0;  
        **font-family**: 'Arial', sans-serif;  
        **box-sizing**: border-box;  
    }  
  
    /\* Page Background \*/  
    **body** {  
        **background-color**: #f5f5f5;  
        **color**: #333;  
        **line-height**: 1.6;  
        **padding**: 20px;  
        **display**: flex;  
        **justify-content**: center;  
        **align-items**: center;  
        **height**: 100vh;  
        **flex-direction**: column;  
    }  
  
    **h1** {  
        **font-size**: 2rem;  
        **margin-bottom**: 20px;  
        **color**: #2c3e50;  
    }  
  
    **h2** {  
        **color**: #2c3e50;  
        **text-align**: center;  
        **margin-bottom**: 20px;  
    }  
  
    /\* Form Styling \*/  
    **form** {  
        **background-color**: #fff;  
        **padding**: 30px;  
        **border-radius**: 8px;  
        **box-shadow**: 0 4px 10px rgba(0, 0, 0, 0.1);  
        **margin-bottom**: 40px;  
        **width**: 100%;  
        **max-width**: 400px;  
    }  
  
    **label** {  
        **font-weight**: bold;  
        **margin-bottom**: 8px;  
        **display**: block;  
        **color**: #333;  
    }  
  
    **input**[type="text"], **input**[type="password"], **input**[type="date"], **select**, **button** {  
        **width**: 100%;  
        **padding**: 12px;  
        **margin-bottom**: 15px;  
        **border**: 2px solid #ddd;  
        **border-radius**: 5px;  
        **font-size**: 16px;  
    }  
  
    **input**[type="text"]:focus, **input**[type="password"]:focus, **input**[type="date"]:focus, **select**:focus, **button**:focus {  
        **border-color**: #3498db;  
        **outline**: none;  
    }  
  
    **button** {  
        **background-color**: #3498db;  
        **color**: white;  
        **font-size**: 16px;  
        **cursor**: pointer;  
        **border**: none;  
        **transition**: background-color 0.3s;  
        **padding**: 12px;  
        **border-radius**: 5px;  
    }  
  
    **button**:hover {  
        **background-color**: #2980b9;  
    }  
  
    /\* Input focus styles \*/  
    **input**[type="text"]:focus, **input**[type="password"]:focus {  
        **border-color**: #3498db;  
        **box-shadow**: 0 0 5px rgba(52, 152, 219, 0.3);  
    }  
  
    /\* Table Styling for Edit Page \*/  
    **table** {  
        **width**: 100%;  
        **border-collapse**: collapse;  
        **margin-top**: 20px;  
    }  
  
    **th**, **td** {  
        **padding**: 12px;  
        **text-align**: left;  
        **border-bottom**: 1px solid #ddd;  
    }  
  
    **th** {  
        **background-color**: #3498db;  
        **color**: white;  
    }  
  
    **td** {  
        **background-color**: #fafafa;  
    }  
  
    **tr**:nth-child(even) **td** {  
        **background-color**: #f9f9f9;  
    }  
  
    **tr**:hover **td** {  
        **background-color**: #f1f1f1;  
    }  
  
    **a** {  
        **color**: #3498db;  
        **text-decoration**: none;  
        **font-weight**: bold;  
        **margin-right**: 15px;  
    }  
  
    **a**:hover {  
        **text-decoration**: underline;  
    }  
  
    /\* Responsive Design \*/  
    @**media** (max-width: 768px) {  
        **body** {  
            **padding**: 10px;  
        }  
  
        **form** {  
            **padding**: 20px;  
            **width**: 100%;  
        }  
  
        **button** {  
            **font-size**: 14px;  
        }  
  
        **table** {  
            **font-size**: 14px;  
        }  
    }  
</**style**>  
  
</**head**>  
<**body**>  
  
<**nav**>  
    <**ul**>  
        <**li** class="logo"><**a** href="public.php">Library</**a**></**li**>  
        <**ul** class="nav-links">  
            <?php  
            // Show links based on the current page  
            **if** (basename($\_SERVER['PHP\_SELF']) == 'login.php') {  
                // On the login page, show only Admin Login  
                **echo** '<li><a href="login.php">Admin Login</a></li>';  
            } **elseif** (basename($\_SERVER['PHP\_SELF']) == 'admin.php') {  
                // On the admin page, show Back to Public  
                **echo** '<li><a href="public.php">Back to Public</a></li>';  
            } **elseif** (basename($\_SERVER['PHP\_SELF']) == 'edit.php') {  
                // On the edit page, show Back to Public  
                **echo** '<li><a href="public.php">Back to Public</a></li>';  
            } **else** {  
                // Default state for all other pages, show Admin Login  
                **echo** '<li><a href="login.php">Admin Login</a></li>';  
            }  
            ?>  
        </**ul**>  
    </**ul**>  
</**nav**>  
  
    <**h1**>Edit Book</**h1**>  
    <**form** action="edit.php" method="POST">  
        <**input** type="hidden" name="book\_id" value="<?php echo $book['book\_id']; ?>">  
        <**label** for="title">Title:</**label**>  
        <**input** type="text" name="title" id="title" value="<?php echo $book['title']; ?>" required><**br**><**br**>  
        <**label** for="author">Author:</**label**>  
        <**input** type="text" name="author" id="author" value="<?php echo $book['author']; ?>" required><**br**><**br**>  
        <**label** for="borrowed\_date">Borrowed Date:</**label**>  
        <**input** type="date" name="borrowed\_date" id="borrowed\_date" value="<?php echo $book['borrowed\_date']; ?>"><**br**><**br**>  
        <**label** for="return\_date">Return Date:</**label**>  
        <**input** type="date" name="return\_date" id="return\_date" value="<?php echo $book['return\_date']; ?>"><**br**><**br**>  
        <**label** for="is\_available">Availability:</**label**>  
        <**select** name="is\_available" id="is\_available">  
            <**option** value="1" <?php echo $book['is\_available'] ? 'selected' : ''; ?>>Available</**option**>  
            <**option** value="0" <?php echo !$book['is\_available'] ? 'selected' : ''; ?>>Not Available</**option**>  
        </**select**><**br**><**br**>  
        <**label** for="genre">Genre:</**label**>  
        <**input** type="text" name="genre" id="genre" value="<?php echo $book['genre']; ?>" required><**br**><**br**>  
        <**button** type="submit" name="update">Update Book</**button**>  
    </**form**>  
</**body**>  
</**html**>

***Results***

Video Link: <https://youtu.be/Fc0T-s51uxA>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **Excellent**  **(4 points)** | **Good (3 points)** | **Satisfactory (2 points)** | **Needs**  **Improvement**  **(1 point)** |
| **Database Structure** | Table created perfectly with proper field types (INT,  VARCHAR, DATE), primary key set up correctly, and all necessary constraints added. | Table created with minor issues in field types or constraints, but structure mostly correct. | Basic table created but with some problems in field types or missing constraints. | Incomplete or incorrect table structure. Missing primary key or improper field types. |
| **Data Entry** | At least 5 books added with complete information (title, author, date). Data properly formatted and welldocumented. | Most books added correctly with proper data formatting. Documentation mostly complete. | Basic data entered but with some formatting errors or incomplete information. | Minimal data entry or major errors in date formats and data. |
| **Query Operations** | All required queries working perfectly (SELECT, UPDATE, DELETE). Can successfully search by author and dates.  Operations well-documented. | Most queries working correctly. Can perform basic searches and updates with adequate documentation. | Basic queries working but with some errors in date handling or search operations. | Queries not working or poorly implemented. Cannot perform basic operations. |
| **Documentation** | Complete documentation with clear screenshots of table creation, data insertion, and all | Good documentation with most screenshots | Basic documentation present but missing some operations or results. | Poor or incomplete documentation of database operations. |
|  | query operations. Commands well-organized. | and commands, minor omissions. |  |  |
| **Organization** | Submission perfectly organized, with clear sections for creation, insertion, queries, and results. Easy to follow. | Mostly organized submission with clear structure. Some minor organizational issues. | Basic organization present but could be clearer or more logical. | Disorganized or confusing submission structure. |