Faculty of Engineering and Computer Science
Expectations of Originality

This form has been created to ensure that all students in the Faculty of Engineering and Computer Science comply with principles of academic integrity prior to submitting coursework to their instructors for evaluation: namely reports, assignments, lab reports and/or software. All students should become familiar with the University's Code of Conduct (Academic) located at http://web2.concordia.ca/Legal_Counsel/policies/english/AC/Code.html

Please read the back of this document carefully before completing the section below. This form must be attached to the front of all coursework submitted to instructors in the Faculty of Engineering and Computer Science.

Course Number: Comp353 **Instructor:** Khaled Jababo

Type of Submission (Please check off reponses to both a & b)

a. __ Report √ Assignment __ Lab Report __ Software

b. __ Individual submission √ Group Submission (All members of the team must sign below)

Having read both sides of this form, I certify that I/we have conformed to the Faculty's expectations of originality and standards of academic integrity.

Name: Weilun Zhang (please print clearly) ID No: 40190549 Signature: Weilun Zhang Date: 02/08/2024

Name: Thanh An Kha Nguyen (please print clearly) ID No: 4027891 Signature: Date: 02/08/2024

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Name: XuJin Chen (please print clearly) ID No: 40213670 Signature: Date: 02/08/2024

Name: (please print clearly) ID No: Signature: Date:

Name: (please print clearly) ID No: Signature: Date:

Do Not Write in this Space – Reserved for Instructor

EXPECTATIONS OF ORIGINALITY & STANDARDS OF ACADEMIC INTEGRITY

ALL SUBMISSIONS must meet the following requirements:

1. The decision on whether a submission is a group or individual submission is determined by the instructor. Individual submissions are done alone and should not be identical to the submission made by any other student. In the case of group submissions, all individuals in the group must be listed on and must sign this form prior to its submission to the instructor.
2. All individual and group submissions constitute original work by the individual(s) signing this form.
3. Direct quotations make up a very small proportion of the text, i.e., not exceeding 5% of the word count.
4. Material paraphrased from a source (e.g., print sources, multimedia sources, web-based sources, course notes or personal interviews) has been identified by a numerical reference citation.
5. All of the sources consulted and/or included in the report have been listed in the Reference section of the document.
6. All drawings, diagrams, photos, maps or other visual items derived from other sources have been identified by numerical reference citations in the caption.
7. No part of the document has been submitted for any other course.
8. Any exception to these requirements are indicated on an attached page for the instructor's review.

REPORTS and ASSIGNMENTS must also meet the following additional requirements:

1. A report or assignment consists entirely of ideas, observations, information and conclusions composed by the student(s), except for statements contained within quotation marks and attributed to the best of the student's/students' knowledge to their proper source in footnotes or references.
2. An assignment may not use solutions to assignments of other past or present students/instructors of this course or of any other course.
3. The document has not been revised or edited by another student who is not an author.
4. For reports, the guidelines found in Form and Style, by Patrick MacDonagh and Jack Borden (Fourth Edition: May 2000, available at http://www.encs.concordia.ca/scs/Forms/Form&Style.pdf) have been used for this submission.

LAB REPORTS must also meet the following requirements:

1. The data in a lab report represents the results of the experimental work by the student(s), derived only from the experiment itself. There are no additions or modifications derived from any outside source.
2. In preparing and completing the attached lab report, the labs of other past or present students of this course or any other course have not been consulted, used, copied, paraphrased or relied upon in any manner whatsoever.

SOFTWARE must also meet the following requirements:

1. The software represents independent work of the student(s).
2. No other past or present student work (in this course or any other course) has been used in writing this software, except as explicitly documented.
3. The software consists entirely of code written by the undersigned, except for the use of functions and libraries in the public domain, all of which have been documented on an attached page.
4. No part of the software has been used in previous submissions except as identified in the documentation.
5. The documentation of the software includes a reference to any component that the student(s) did not write.
6. All of the sources consulted while writing this code are listed in the documentation.

Important: Should you require clarification on any of the above items please contact your instructor.

Concordia University
Dept. of Computer Science & Software Engineering

Comp 353/CD - Databases Summer 2024

Main Project

Group

G-353-CD-02

Group Account

nnc353_1

Submitted on Friday, August 8,2024 to Khaled Jababo

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We certify that this submission is the original work of members of the group and meets the Faculty's Expectations of Originality

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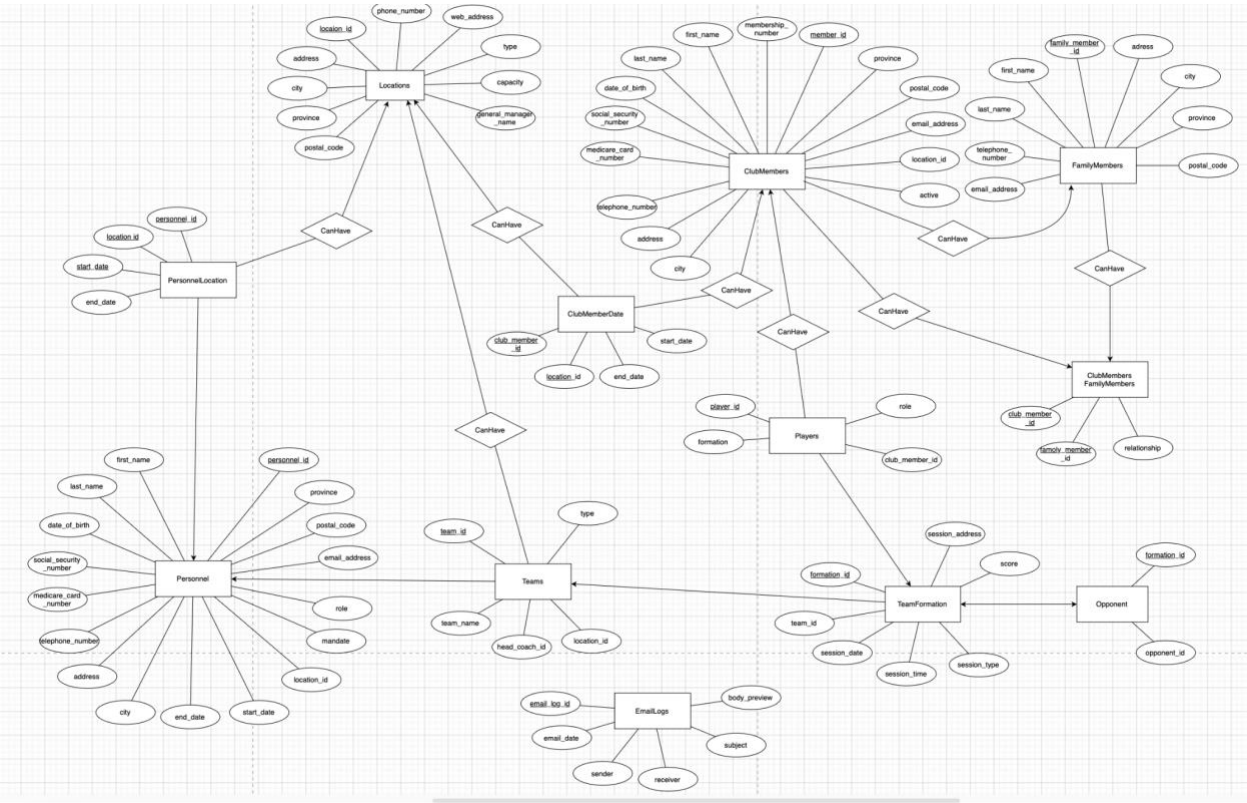
1. and 2. E/R Diagram



3. Converted E/R Diagram into relational database schema

Locations
Locations (location_id, name, address, city, province, postal_code, phone_number, web_address, type, capacity, general_manager_name)

- **PK:** location_id
- **FD:** location_id → {name, address, city, province, postal_code, phone_number, web_address, type, capacity, general_manager_name}
- **Domain Constraint:**
    - type CHECK (type IN ('Head', 'Branch'))

ClubMembers
ClubMembers (member_id, membership_number, first_name, last_name, date_of_birth, social_security_number, medicare_card_number, telephone_number, address, city, province, postal_code, email_address, location_id, active)

- **PK:** member_id
- **FK:** location_id REFERENCES Locations(location_id)
- **FD:** member_id → {membership_number, first_name, last_name, date_of_birth, social_security_number, medicare_card_number, telephone_number, address, city, province, postal_code, email_address, location_id, active}
- **Uniqueness Constraints:**
    - membership_number UNIQUE
    - social_security_number UNIQUE

FamilyMembers
FamilyMembers (family_member_id, first_name, last_name, telephone_number, email_address, address, city, province, postal_code)

- **PK:** family_member_id
- **FD:** family_member_id → {first_name, last_name, telephone_number, email_address, address, city, province, postal_code}

ClubMembersFamilyMembers
ClubMembersFamilyMembers (club_member_id, family_member_id, relationship)

- **PK:** (club_member_id, family_member_id)
- **FK:**
    - club_member_id REFERENCES ClubMembers(member_id)
    - family_member_id REFERENCES FamilyMembers(family_member_id)
- **FD:** {club_member_id, family_member_id} → relationship
- **Domain Constraints:**
    - relationship CHECK (relationship IN ('Father', 'Mother', 'GrandFather', 'GrandMother', 'Tutor', 'Partner', 'Friend', 'Other'))

Personnel
Personnel(personnel_id, first_name, last_name, date_of_birth, social_security_number, medicare_card_number, telephone_number, address, city, province, postal_code, email_address, role, mandate, location_id, start_date, end_date)

- **PK:** personnel_id
- **FK:** location_id REFERENCES Locations(location_id)

- **FD:** personnel_id → {first_name, last_name, date_of_birth, social_security_number, medicare_card_number, telephone_number, address, city, province, postal_code, email_address, role, mandate, location_id, start_date, end_date}
- **Uniqueness Constraints:**
    - social_security_number UNIQUE
    - medicare_card_number UNIQUE
- **Domain Constraints**
    - role CHECK (role IN ('Administrator', 'Trainer', 'Other'))
    - mandate CHECK (mandate IN ('Volunteer', 'Salary'))

ClubMembersDate
ClubMembersLocationsHistory(club_member_id, location_id, start_date, end_date)

- **PK:** (club_member_id, location_id, start_date)
- **FK:**
    - club_member_id REFERENCES ClubMembers(member_id)
    - location_id REFERENCES Locations(location_id)
- **FD:** {club_member_id, location_id, start_date} → end_date

Teams
Teams(TeamID, TeamName, location_id, HeadCoachID, Type)

- **PK:** TeamID
- **FK:**
    - location_id REFERENCES Locations(location_id)
    - HeadCoachID REFERENCES Personnel(personnel_id)
- **FD:** TeamID → {TeamName, location_id, HeadCoachID, Type}
- **Domain Constraints:**
    - Type ENUM('Girls', 'Boys')

TeamFormations
TeamFormations(formation_id, team_id, session_date, session_time, session_type, score, opponent)

- **PK:** formation_id
- **FK:**
    - team_id REFERENCES Teams(TeamID)
    - opponent REFERENCES TeamFormations(formation_id)
- **FD:** formation_id → {team_id, session_date, session_time, session_type, score, opponent}
- **Domain Constraints:**

    - session_type ENUM('Game', 'Training')

Opponent
Opponent(formation_id, opponent_id)

- **PK:** formation_id
- **FK:**
    - formation_id REFERENCES TeamFormations(formation_id)
    - opponent_id REFERENCES TeamFormations(formation_id)
- **FD:** formation_id → {opponent_id}

Players
Players(player_id, formation_id, club_member_id, role)

- **PK:** player_id
- **FK:**
    - formation_id REFERENCES TeamFormations(formation_id)
    - club_member_id REFERENCES ClubMembers(member_id)
- **FD:** player_id → {formation_id, club_member_id, role}
- **Domain Constraints:**
    - role ENUM('Goalkeeper', 'Defender', 'Midfielder', 'Forward')

EmailLogs
EmailLogs(email_log_id, email_date, sender, receiver, subject, body_preview)

- **PK:** email_log_id
- **FD:** email_log_id → {email_date, sender, receiver, subject, body_preview}

PersonnelLocation
PersonnelLocation(personnel_id, location_id, start_date, end_date)

- **PK:** (personnel_id, location_id, start_date)
- **FK:**
    - personnel_id REFERENCES Personnel(personnel_id)
    - location_id REFERENCES Locations(location_id)
- **FD:** {personnel_id, location_id, start_date} → end_date

4. Checking if all the relations are in BCNF

Locations

location_id → {name, address, city, province, postal_code, phone_number, web_address, type, capacity, general_manager_name}

Explanation: location_id is the primary key and it determines all other attributes, making location_id a superkey. There are no other candidate keys in this relation.

ClubMembers

member_id → {membership_number, first_name, last_name, date_of_birth, social_security_number, medicare_card_number, telephone_number, address, city, province, postal_code, email_address, location_id, active}

Explanation: member_id is the primary key and determines all other attributes, making member_id a superkey. There are no other candidate keys.

FamilyMembers

family_member_id → {first_name, last_name, telephone_number, email_address, address, city, province, postal_code}

Explanation: family_member_id is the primary key and determines all other attributes, making family_member_id a superkey. There are no other candidate keys.

ClubMembersFamilyMembers

{club_member_id, family_member_id} → relationship

Explanation: The composite key {club_member_id, family_member_id} is the primary key and determines the relationship attribute. The primary key is a superkey, so there are no other candidate keys.

Personnel

personnel_id → {first_name, last_name, date_of_birth, social_security_number, medicare_card_number, telephone_number, address, city, province, postal_code, email_address, role, mandate, location_id, start_date, end_date}

Explanation: personnel_id is the primary key and determines all other attributes, making personnel_id a superkey. There are no other other candidate keys.

ClubMembersLocationsHistory

{club_member_id, location_id, start_date} → end_date

Explanation: The composite key {club_member_id, location_id, start_date} is the primary key and determines the end_date attribute. Since the primary key is a superkey, there are no other candidate keys.

Teams

TeamID → {TeamName, location_id, HeadCoachID, Type}

Explanation: TeamID is the primary key and determines all other attributes, making TeamID a superkey. There are no other candidate keys.

TeamFormations

formation_id → {team_id, session_date, session_time, session_type, score, opponent}

Explanation: formation_id is the primary key and determines all other attributes, making formation_id a superkey. There are no other candidate keys in this relation.

Opponent

formation_id → {opponent_id}

Explanation: formation_id is the primary key and determines the opponent_id attribute. Since the primary key is a superkey, there are no other candidate keys.

Players

player_id → {formation_id, club_member_id, role}

Explanation: player_id is the primary key and determines all other attributes, making player_id a superkey. There are no other candidate keys.

EmailLogs

email_log_id → {email_date, sender, receiver, subject, body_preview}

Explanation: email_log_id is the primary key and determines all other attributes, making email_log_id a superkey. There are no other candidate keys.

PersonnelLocation

{personnel_id, location_id, start_date} → end_date

Explanation: The composite key {personnel_id, location_id, start_date} is the primary key and determines the end_date attribute. The primary key is a superkey and there are no other candidate keys.

Yes, they are all in BCNF. For every non-trivial functional dependency in every relation, the determinant is always a super key.
Each relation only has one functional dependency where the determinant is always the primary key. There are no additional candidate keys. This always ensures that the BCNF requirements are met.

5. If not BCNF, check if 3NF

They are all in BCNF.

6. PHP files

1. Create/Delete/Edit/Display a Location.

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Manage Locations</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }
```

```
      th {
         color: #4682b4;
         font-family: Arial, sans-serif;
         font-size: 100%;
      }

      .form {
         width: 800px;
         background-color: #fff;
         color: #333;
         border: 2px solid #ccc;
         margin: 50px auto;
         padding: 20px;
         text-align: center;
         font-size: 20px;
         border-radius: 10px;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }

      .form a {
         color: #2e8b57;
         text-decoration: none;
         font-size: 24px;
         display: block;
         margin: 10px 0;
      }

      .form a:hover {
         color: #4682b4;
      }
   </style>
</head>

<body>
   <div class="form">
      <p style="font-size: 30px;">Manage Locations</p>
      <p><a href="CreateLocation.php">Create Location</a></p>
      <p><a href="DisplayLocation.php">View Locations</a></p>
   </div>
</body>

</html>
```

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Create Location</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        .form-container {
            width: 600px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: left;
            font-size: 16px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
```

```
        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form-container">
        <h2>Create a New Location</h2>
        <?php
        include 'database.php';

        // Check connection
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }

        if ($_SERVER['REQUEST_METHOD'] == 'POST') {
            $location_id = $_POST['location_id'];
            $name = $_POST['name'];
            $address = $_POST['address'];
            $city = $_POST['city'];
            $province = $_POST['province'];
            $postal_code = $_POST['postal_code'];
            $phone_number = $_POST['phone_number'];
            $web_address = $_POST['web_address'];
            $type = $_POST['type'];
            $capacity = $_POST['capacity'];

            // SQL query to insert data
            $sql = "INSERT INTO Locations (location_id, name, address, city, province,
postal_code, phone_number, web_address, type, capacity)
                    VALUES ($location_id, '$name', '$address', '$city', '$province',
'$postal_code', '$phone_number', '$web_address', '$type', $capacity)";

            if ($conn->query($sql) === TRUE) {
```

```
            echo "New location created in database";
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }

        $conn->close();
    }
    ?>
    <form action="" method="POST">
        <label for="location_id">Location ID:</label>
        <input type="number" id="location_id" name="location_id" required>

        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>

        <label for="address">Address:</label>
        <input type="text" id="address" name="address" required>

        <label for="city">City:</label>
        <input type="text" id="city" name="city" required>

        <label for="province">Province:</label>
        <input type="text" id="province" name="province" required>

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code" required>

        <label for="phone_number">Phone Number:</label>
        <input type="text" id="phone_number" name="phone_number" required>

        <label for="web_address">Web Address:</label>
        <input type="text" id="web_address" name="web_address">

        <label for="type">Type:</label>
        <select id="type" name="type" required>
            <option value="Head">Head</option>
            <option value="Branch">Branch</option>
        </select>

        <label for="capacity">Capacity:</label>
        <input type="number" id="capacity" name="capacity" required>

        <input type="submit" value="Create Location">
    </form>
</div>
```

```
</body>

</html>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if (isset($_GET['location_id'])) {
    $location_id = $_GET['location_id'];

    // SQL query to delete data
    $sql = "DELETE FROM Locations WHERE location_id = $location_id";
header("Location: DisplayLocation.php");
    if ($conn->query($sql) === TRUE) {
        echo "Location deleted from database";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();
    // Redirect to the locations list page after deletion

    exit;
} else {
    echo "Invalid request";
}
?>
```

```
<?php
include 'database.php';

$sql = "SELECT * FROM Locations";
$result = $conn->query($sql);
```

```
if ($result->num_rows > 0) {
    echo "<h2>Locations</h2>";
    echo "<table border='1'>
            <tr>
                <th>Location ID</th>
                <th>Name</th>
                <th>Address</th>
                <th>City</th>
                <th>Province</th>
                <th>Postal Code</th>
                <th>Phone Number</th>
                <th>Web Address</th>
                <th>Type</th>
                <th>Capacity</th>
                <th>Actions</th>
            </tr>";
    while($row = $result->fetch_assoc()) {
        echo "<tr>
                <td>" . $row["location_id"]. "</td>
                <td>" . $row["name"]. "</td>
                <td>" . $row["address"]. "</td>
                <td>" . $row["city"]. "</td>
                <td>" . $row["province"]. "</td>
                <td>" . $row["postal_code"]. "</td>
                <td>" . $row["phone_number"]. "</td>
                <td>" . $row["web_address"]. "</td>
                <td>" . $row["type"]. "</td>
                <td>" . $row["capacity"]. "</td>
                <td>
                    <a href='EditLocation.php?location_id=" . $row["location_id"]. "'>Edit</a>
|
                    <a href='DeleteLocation.php?location_id=" . $row["location_id"].
"'>Delete</a>
                </td>
            </tr>";
    }
    echo "</table>";
} else {
    echo "0 results";
}

$conn->close();
?>
```

```php
<?php
include 'database.php'; // Ensure the path is correct

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Handle form submission to update the location
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $location_id = $_POST['location_id'];
    $name = $_POST['name'];
    $address = $_POST['address'];
    $city = $_POST['city'];
    $province = $_POST['province'];
    $postal_code = $_POST['postal_code'];
    $phone_number = $_POST['phone_number'];
    $web_address = $_POST['web_address'];
    $type = $_POST['type'];
    $capacity = $_POST['capacity'];

    // SQL query to update location information
    $sql = "UPDATE Locations SET name='$name', address='$address', city='$city',
province='$province', postal_code='$postal_code', phone_number='$phone_number',
web_address='$web_address', type='$type', capacity=$capacity WHERE
location_id=$location_id";

    if ($conn->query($sql) === TRUE) {
        // Redirect to display location page
        header("Location:https://nnc353.encs.concordia.ca/DisplayLocation.php");
        exit; // Ensure no further code is executed
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
} elseif (isset($_GET['location_id'])) {
    $location_id = $_GET['location_id'];

    // Get current location information
    $sql = "SELECT * FROM Locations WHERE location_id = $location_id";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
```

```
    } else {
        echo "No location found with ID $location_id";
        exit;
    }
} else {
    echo "No location ID provided. Please access this page through the display page.";
    exit;
}

$conn->close();
?>

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Edit Location</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        .form-container {
            width: 600px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: left;
            font-size: 16px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form-container label {
            display: block;
            margin: 10px 0 5px;
```

```
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>
<body>
    <div class="form-container">
        <h2>Edit Location</h2>

        <form action="EditLocation.php" method="POST">
            <input type="hidden" id="location_id" name="location_id" value="<?php echo
$row['location_id']; ?>" required>

            <label for="name">Name:</label>
            <input type="text" id="name" name="name" value="<?php echo
$row['name']; ?>" required>

            <label for="address">Address:</label>
            <input type="text" id="address" name="address" value="<?php echo
$row['address']; ?>" required>

            <label for="city">City:</label>
            <input type="text" id="city" name="city" value="<?php echo $row['city']; ?>"
required>
```

```
        <label for="province">Province:</label>
        <input type="text" id="province" name="province" value="<?php echo
$row['province']; ?>" required>

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code" value="<?php echo
$row['postal_code']; ?>" required>

        <label for="phone_number">Phone Number:</label>
        <input type="text" id="phone_number" name="phone_number" value="<?php
echo $row['phone_number']; ?>" required>

        <label for="web_address">Web Address:</label>
        <input type="text" id="web_address" name="web_address" value="<?php
echo $row['web_address']; ?>">

        <label for="type">Type:</label>
        <select id="type" name="type" required>
            <option value="Head" <?php if($row['type'] == 'Head') echo
'selected'; ?>>Head</option>
            <option value="Branch" <?php if($row['type'] == 'Branch') echo
'selected'; ?>>Branch</option>
        </select>

        <label for="capacity">Capacity:</label>
        <input type="number" id="capacity" name="capacity" value="<?php echo
$row['capacity']; ?>" required>

        <input type="submit" value="Update Location">

    </form>
  </div>
</body>
</html>
```

2. Create/Delete/Edit/Display a Personnel.

```
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
```

```
    <title>Manage Personnel</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        th {
            color: #4682b4;
            font-family: Arial, sans-serif;
            font-size: 100%;
        }

        .form {
            width: 800px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: center;
            font-size: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form a {
            color: #2e8b57;
            text-decoration: none;
            font-size: 24px;
            display: block;
            margin: 10px 0;
        }

        .form a:hover {
            color: #4682b4;
        }
    </style>
</head>
```

```
<body>
   <div class="form">
      <p style="font-size: 30px;">Manage Personnel</p>
      <p><a href="CreatePersonnel.php">Create Personnel</a></p>
      <p><a href="DisplayPersonnel.php">View Personnel</a></p>

   </div>
</body>

</html>
```

```
<!DOCTYPE html>
<html>

<head>
   <meta charset="utf-8">
   <title>Create Personnel</title>
   <style>
      body {
         background-color: #f0f8ff;
         color: #333;
         font-family: Arial, sans-serif;
      }

      h2 {
         color: #2e8b57;
         font-size: 200%;
      }

      .form-container {
         width: 600px;
         background-color: #fff;
         color: #333;
         border: 2px solid #ccc;
         margin: 50px auto;
         padding: 20px;
         text-align: left;
         font-size: 16px;
         border-radius: 10px;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }
```

```
        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form-container">
        <h2>Create a New Personnel</h2>
        <?php
        include 'database.php';

        // Check connection
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }

        if ($_SERVER['REQUEST_METHOD'] == 'POST') {
            $personnel_id = $_POST['personnel_id'];
            $first_name = $_POST['first_name'];
            $last_name = $_POST['last_name'];
```

```
        $date_of_birth = $_POST['date_of_birth'];
        $ssn = $_POST['ssn'];
        $medicare_number = $_POST['medicare_number'];
        $phone_number = $_POST['phone_number'];
        $address = $_POST['address'];
        $city = $_POST['city'];
        $province = $_POST['province'];
        $postal_code = $_POST['postal_code'];
        $email = $_POST['email'];
        $role = $_POST['role'];
        $mandate = $_POST['mandate'];

        // SQL query to insert data
        $sql = "INSERT INTO Personnel (personnel_id, first_name, last_name,
date_of_birth, ssn, medicare_number, phone_number, address, city, province,
postal_code, email, role, mandate)
                VALUES ($personnel_id, '$first_name', '$last_name', '$date_of_birth',
'$ssn', '$medicare_number', '$phone_number', '$address', '$city', '$province',
'$postal_code', '$email', '$role', '$mandate')";

        if ($conn->query($sql) === TRUE) {
            echo "New personnel created in database";
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }

        $conn->close();
    }
    ?>
    <form action="" method="POST">
        <label for="personnel_id">Personnel ID:</label>
        <input type="number" id="personnel_id" name="personnel_id" required>

        <label for="first_name">First Name:</label>
        <input type="text" id="first_name" name="first_name" required>

        <label for="last_name">Last Name:</label>
        <input type="text" id="last_name" name="last_name" required>

        <label for="date_of_birth">Date of Birth:</label>
        <input type="date" id="date_of_birth" name="date_of_birth" required>

        <label for="ssn">SSN:</label>
        <input type="text" id="ssn" name="ssn" required>
```

```
        <label for="medicare_number">Medicare Number:</label>
        <input type="text" id="medicare_number" name="medicare_number">

        <label for="phone_number">Phone Number:</label>
        <input type="text" id="phone_number" name="phone_number">

        <label for="address">Address:</label>
        <input type="text" id="address" name="address">

        <label for="city">City:</label>
        <input type="text" id="city" name="city">

        <label for="province">Province:</label>
        <input type="text" id="province" name="province">

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code">

        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>

        <label for="role">Role:</label>
        <select id="role" name="role" required>
            <option value="Administrator">Administrator</option>
            <option value="Trainer">Trainer</option>
            <option value="Other">Other</option>
        </select>

        <label for="mandate">Mandate:</label>
        <select id="mandate" name="mandate" required>
            <option value="Volunteer">Volunteer</option>
            <option value="Salary">Salary</option>
        </select>

        <input type="submit" value="Create Personnel">
      </form>
   </div>
</body>

</html>
```

```
<?php
```

```
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if (isset($_GET['personnel_id'])) {
    $personnel_id = $_GET['personnel_id'];

    // SQL query to delete data
    $sql = "DELETE FROM Personnel WHERE personnel_id = $personnel_id";
header("Location: DisplayPersonnel.php");
    if ($conn->query($sql) === TRUE) {
        echo "Personnel deleted from database";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();
    // Redirect to the personnel list page after deletion

    exit;
} else {
    echo "Invalid request";
}
?>
```

```
<?php
include 'database.php';

$sql = "SELECT * FROM Personnel";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    echo "<h2>Personnel</h2>";
    echo "<table border='1'>
            <tr>
                <th>Personnel ID</th>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Date of Birth</th>
```

```
            <th>SSN</th>
            <th>Medicare Number</th>
            <th>Phone Number</th>
            <th>Address</th>
            <th>City</th>
            <th>Province</th>
            <th>Postal Code</th>
            <th>Email</th>
            <th>Role</th>
            <th>Mandate</th>
            <th>Actions</th>
        </tr>";
    while($row = $result->fetch_assoc()) {
        echo "<tr>
            <td>" . $row["personnel_id"] . "</td>
            <td>" . $row["first_name"] . "</td>
            <td>" . $row["last_name"] . "</td>
            <td>" . $row["date_of_birth"] . "</td>
            <td>" . $row["ssn"] . "</td>
            <td>" . $row["medicare_number"] . "</td>
            <td>" . $row["phone_number"] . "</td>
            <td>" . $row["address"] . "</td>
            <td>" . $row["city"] . "</td>
            <td>" . $row["province"] . "</td>
            <td>" . $row["postal_code"] . "</td>
            <td>" . $row["email"] . "</td>
            <td>" . $row["role"] . "</td>
            <td>" . $row["mandate"] . "</td>
            <td>
                <a href='EditPpersonnel.php?personnel_id=" . $row["personnel_id"] .
"'>Edit</a> |
                <a href='DeletePersonnel.php?personnel_id=" . $row["personnel_id"] .
"'>Delete</a>
            </td>
        </tr>";
    }
    echo "</table>";
} else {
    echo "0 results";
}

$conn->close();
?>
```

```
<?php
include 'database.php';

if (isset($_GET['personnel_id'])) {
    $personnel_id = $_GET['personnel_id'];

    // Fetch the existing data for the selected personnel
    $sql = "SELECT * FROM Personnel WHERE personnel_id = $personnel_id";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
    } else {
        echo "No personnel found with the provided ID.";
        exit();
    }
} else {
    echo "No personnel_id provided.";
    exit();
}

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $date_of_birth = $_POST['date_of_birth'];
    $ssn = $_POST['ssn'];
    $medicare_number = $_POST['medicare_number'];
    $phone_number = $_POST['phone_number'];
    $address = $_POST['address'];
    $city = $_POST['city'];
    $province = $_POST['province'];
    $postal_code = $_POST['postal_code'];
    $email = $_POST['email'];
    $role = $_POST['role'];
    $mandate = $_POST['mandate'];

    // SQL query to update the personnel entry
    $sql = "UPDATE Personnel SET first_name='$first_name',
last_name='$last_name', date_of_birth='$date_of_birth', ssn='$ssn',
medicare_number='$medicare_number', phone_number='$phone_number',
address='$address', city='$city', province='$province', postal_code='$postal_code',
email='$email', role='$role', mandate='$mandate' WHERE
personnel_id=$personnel_id";

    if ($conn->query($sql) === TRUE) {
```

```
        // Redirect to display location page
        header("Location:https://nnc353.encs.concordia.ca/DisplayPersonnel.php");
        exit; // Ensure no further code is executed
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}
?>

<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Edit Personnel</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        .form-container {
            width: 600px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: left;
            font-size: 16px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }
```

```
        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form-container">
        <h2>Edit Personnel</h2>
        <form action="" method="POST">
            <label for="first_name">First Name:</label>
            <input type="text" id="first_name" name="first_name" value="<?php echo
$row['first_name']; ?>" required>

            <label for="last_name">Last Name:</label>
            <input type="text" id="last_name" name="last_name" value="<?php echo
$row['last_name']; ?>" required>

            <label for="date_of_birth">Date of Birth:</label>
            <input type="date" id="date_of_birth" name="date_of_birth" value="<?php
echo $row['date_of_birth']; ?>" required>

            <label for="ssn">SSN:</label>
            <input type="text" id="ssn" name="ssn" value="<?php echo $row['ssn']; ?>"
required>

            <label for="medicare_number">Medicare Number:</label>
```

```
        <input type="text" id="medicare_number" name="medicare_number"
value="<?php echo $row['medicare_number']; ?>">
        <label for="phone_number">Phone Number:</label>
        <input type="text" id="phone_number" name="phone_number" value="<?php
echo $row['phone_number']; ?>">

        <label for="address">Address:</label>
        <input type="text" id="address" name="address" value="<?php echo
$row['address']; ?>">

        <label for="city">City:</label>
        <input type="text" id="city" name="city" value="<?php echo $row['city']; ?>">

        <label for="province">Province:</label>
        <input type="text" id="province" name="province" value="<?php echo
$row['province']; ?>">

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code" value="<?php echo
$row['postal_code']; ?>">

        <label for="email">Email:</label>
        <input type="email" id="email" name="email" value="<?php echo
$row['email']; ?>" required>

        <label for="role">Role:</label>
        <select id="role" name="role" required>
            <option value="Administrator" <?php if ($row['role'] == 'Administrator') echo
'selected'; ?>>Administrator</option>
            <option value="Trainer" <?php if ($row['role'] == 'Trainer') echo
'selected'; ?>>Trainer</option>
            <option value="Other" <?php if ($row['role'] == 'Other') echo
'selected'; ?>>Other</option>
        </select>

        <label for="mandate">Mandate:</label>
        <select id="mandate" name="mandate" required>
            <option value="Volunteer" <?php if ($row['mandate'] == 'Volunteer') echo
'selected'; ?>>Volunteer</option>
            <option value="Salary" <?php if ($row['mandate'] == 'Salary') echo
'selected'; ?>>Salary</option>
        </select>

        <input type="submit" value="Update Personnel">
    </form>
```

```
    </div>
</body>

</html>
```

3. Create/Delete/Edit/Display a FamilyMember (Primary/Secondary).

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Manage Family Members</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        th {
            color: #4682b4;
            font-family: Arial, sans-serif;
            font-size: 100%;
        }

        .form {
            width: 800px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: center;
            font-size: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
        }

        .form a {
            color: #2e8b57;
            text-decoration: none;
            font-size: 24px;
            display: block;
            margin: 10px 0;
        }

        .form a:hover {
            color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form">
        <p style="font-size: 30px;">Manage Family Members</p>
        <p><a href="CreateFamilyMember.php">Create Family Member</a></p>
        <p><a href="DisplayFamilyMember.php">Display Family Members</a></p>
    </div>
</body>

</html>
```

```
 <!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Create Family Member</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }
```

```
      .form-container {
         width: 600px;
         background-color: #fff;
         color: #333;
         border: 2px solid #ccc;
         margin: 50px auto;
         padding: 20px;
         text-align: left;
         font-size: 16px;
         border-radius: 10px;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }

      .form-container label {
         display: block;
         margin: 10px 0 5px;
      }

      .form-container input,
      .form-container select {
         width: 100%;
         padding: 8px;
         margin-bottom: 10px;
         border: 1px solid #ccc;
         border-radius: 4px;
      }

      .form-container input[type="submit"] {
         width: auto;
         background-color: #2e8b57;
         color: white;
         border: none;
         cursor: pointer;
         font-size: 16px;
      }

      .form-container input[type="submit"]:hover {
         background-color: #4682b4;
      }
   </style>
</head>
<body>
   <div class="form-container">
      <h2>Create a New Family Member</h2>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $family_member_id = $_POST['family_member_id'];
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $date_of_birth = $_POST['date_of_birth'];
    $social_security_number = $_POST['social_security_number'];
    $medicare_card_number = $_POST['medicare_card_number'];
    $telephone_number = $_POST['telephone_number'];
    $address = $_POST['address'];
    $city = $_POST['city'];
    $province = $_POST['province'];
    $postal_code = $_POST['postal_code'];
    $personnel_id = $_POST['personnel_id'];
    $email_address = $_POST['email_address'];
    $primary_family_member_id = $_POST['primary_family_member_id'];

    // SQL query to insert data
    $sql = "INSERT INTO FamilyMembers (family_member_id,first_name,
last_name, date_of_birth, social_security_number, medicare_card_number,
telephone_number, address, city, province, postal_code, personnel_id,
email_address, primary_family_member_id)
            VALUES ('$family_member_id','$first_name', '$last_name',
'$date_of_birth', '$social_security_number', '$medicare_card_number',
'$telephone_number', '$address', '$city', '$province', '$postal_code', ".($personnel_id ?
$personnel_id : "NULL").", '$email_address', ".($primary_family_member_id ?
$primary_family_member_id : "NULL").")";

    if ($conn->query($sql) === TRUE) {
        echo "New family member created successfully";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();
}
?>
<form action="" method="POST">
    <label for="family_member_id">Family Member ID:</label>
```

```
        <input type="number" id="family_member_id" name="family_member_id"
required>

        <label for="first_name">First Name:</label>
        <input type="text" id="first_name" name="first_name" required>

        <label for="last_name">Last Name:</label>
        <input type="text" id="last_name" name="last_name" required>
        <label for="date_of_birth">Date of Birth:</label>
        <input type="date" id="date_of_birth" name="date_of_birth" required>

        <label for="social_security_number">Social Security Number:</label>
        <input type="text" id="social_security_number"
name="social_security_number" required>

        <label for="medicare_card_number">Medicare Card Number:</label>
        <input type="text" id="medicare_card_number"
name="medicare_card_number">

        <label for="telephone_number">Telephone Number:</label>
        <input type="text" id="telephone_number" name="telephone_number">

        <label for="address">Address:</label>
        <input type="text" id="address" name="address">

        <label for="city">City:</label>
        <input type="text" id="city" name="city">

        <label for="province">Province:</label>
        <input type="text" id="province" name="province">

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code">

        <label for="personnel_id">Personnel ID:</label>
        <input type="number" id="personnel_id" name="personnel_id">

        <label for="email_address">Email Address:</label>
        <input type="email" id="email_address" name="email_address">

        <label for="primary_family_member_id">Primary Family Member ID:</label>
        <input type="number" id="primary_family_member_id"
name="primary_family_member_id">

        <input type="submit" value="Create Family Member">
```

```
        </form>
    </div>
</body>
</html>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if (isset($_GET['family_member_id'])) {
    $family_member_id = $_GET['family_member_id'];


    $sql = "DELETE FROM FamilyMembers WHERE family_member_id =
$family_member_id";
    header("Location: DisplayFamilyMember.php");
    if ($conn->query($sql) === TRUE) {
        echo "Family member deleted from database";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();

    exit;
} else {
    echo "Invalid request";
}
?>
```

```
 <?php
include 'database.php';

$sql = "SELECT * FROM FamilyMembers";
$result = $conn->query($sql);
```

```
if ($result->num_rows > 0) {
    echo "<h2>Family Members</h2>";
    echo "<table border='1'>
            <tr>
                <th>Family Member ID</th>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Date of Birth</th>
                <th>Social Security Number</th>
                <th>Medicare Card Number</th>
                <th>Telephone Number</th>
                <th>Address</th>
                <th>City</th>
                <th>Province</th>
                <th>Postal Code</th>
                <th>Personnel ID</th>
                <th>Email Address</th>
                <th>Primary Family Member ID</th>
                <th>Actions</th>
            </tr>";
    while($row = $result->fetch_assoc()) {
        echo "<tr>
                <td>" . $row["family_member_id"]. "</td>
                <td>" . $row["first_name"]. "</td>
                <td>" . $row["last_name"]. "</td>
                <td>" . $row["date_of_birth"]. "</td>
                <td>" . $row["social_security_number"]. "</td>
                <td>" . $row["medicare_card_number"]. "</td>
                <td>" . $row["telephone_number"]. "</td>
                <td>" . $row["address"]. "</td>
                <td>" . $row["city"]. "</td>
                <td>" . $row["province"]. "</td>
                <td>" . $row["postal_code"]. "</td>
                <td>" . $row["personnel_id"]. "</td>
                <td>" . $row["email_address"]. "</td>
                <td>" . $row["primary_family_member_id"]. "</td>
                <td>
                    <a href='EditFamilyMember.php?family_member_id=" .
$row["family_member_id"]. "'>Edit</a> |
                    <a href='DeleteFamilyMember.php?family_member_id=" .
$row["family_member_id"]. "'>Delete</a>
                </td>
            </tr>";
    }
    echo "</table>";
```

```
} else {
    echo "0 results";
}

$conn->close();
?>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}


if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $family_member_id = $_POST['family_member_id'];
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $date_of_birth = $_POST['date_of_birth'];
    $social_security_number = $_POST['social_security_number'];
    $medicare_card_number = $_POST['medicare_card_number'];
    $telephone_number = $_POST['telephone_number'];
    $address = $_POST['address'];
    $city = $_POST['city'];
    $province = $_POST['province'];
    $postal_code = $_POST['postal_code'];
    $personnel_id = $_POST['personnel_id'];
    $email_address = $_POST['email_address'];
    $primary_family_member_id = $_POST['primary_family_member_id'];


    $sql = "UPDATE FamilyMembers SET first_name='$first_name',
last_name='$last_name', date_of_birth='$date_of_birth',
social_security_number='$social_security_number',
medicare_card_number='$medicare_card_number',
telephone_number='$telephone_number', address='$address', city='$city',
province='$province', postal_code='$postal_code', email_address='$email_address',
primary_family_member_id=".($primary_family_member_id ?
$primary_family_member_id : "NULL")." , personnel_id=".($personnel_id ?
$personnel_id : "NULL")." WHERE family_member_id=$family_member_id";
```

```
    if ($conn->query($sql) === TRUE) {
        // Redirect to display family member page
        header("Location: DisplayFamilyMember.php");
        exit;
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
} elseif (isset($_GET['family_member_id'])) {
    $family_member_id = $_GET['family_member_id'];


    $sql = "SELECT * FROM FamilyMembers WHERE family_member_id =
$family_member_id";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
    } else {
        echo "No family member found with ID $family_member_id";
        exit;
    }
} else {
    echo "No family member ID provided. Please access this page through the display
page.";
    exit;
}

$conn->close();
?>

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Edit Family Member</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
```

```
        font-size: 200%;
    }

    .form-container {
        width: 600px;
        background-color: #fff;
        color: #333;
        border: 2px solid #ccc;
        margin: 50px auto;
        padding: 20px;
        text-align: left;
        font-size: 16px;
        border-radius:
        : 0 0 10px rgba(0, 0, 0, 0.1);
    }

    .form-container label {
        display: block;
        margin: 10px 0 5px;
    }

    .form-container input,
    .form-container select {
        width: 100%;
        padding: 8px;
        margin-bottom: 10px;
        border: 1px solid #ccc;
        border-radius: 4px;
    }

    .form-container input[type="submit"] {
        width: auto;
        background-color: #2e8b57;
        color: white;
        border: none;
        cursor: pointer;
        font-size: 16px;
    }

    .form-container input[type="submit"]:hover {
        background-color: #4682b4;
    }
  </style>
</head>
<body>
```

```
   <div class="form-container">
      <h2>Edit Family Member</h2>

      <form action="EditFamilyMember.php" method="POST">
         <input type="hidden" id="family_member_id" name="family_member_id"
value="<?php echo $row['family_member_id']; ?>" required>

         <label for="first_name">First Name:</label>
         <input type="text" id="first_name" name="first_name" value="<?php echo
$row['first_name']; ?>" required>

         <label for="last_name">Last Name:</label>
         <input type="text" id="last_name" name="last_name" value="<?php echo
$row['last_name']; ?>" required>

         <label for="date_of_birth">Date of Birth:</label>
         <input type="date" id="date_of_birth" name="date_of_birth" value="<?php
echo $row['date_of_birth']; ?>" required>

         <label for="social_security_number">Social Security Number:</label>
         <input type="text" id="social_security_number"
name="social_security_number" value="<?php echo
$row['social_security_number']; ?>" required>

         <label for="medicare_card_number">Medicare Card Number:</label>
         <input type="text" id="medicare_card_number"
name="medicare_card_number" value="<?php echo
$row['medicare_card_number']; ?>">

         <label for="telephone_number">Telephone Number:</label>
         <input type="text" id="telephone_number" name="telephone_number"
value="<?php echo $row['telephone_number']; ?>">

         <label for="address">Address:</label>
         <input type="text" id="address" name="address" value="<?php echo
$row['address']; ?>">

         <label for="city">City:</label>
         <input type="text" id="city" name="city" value="<?php echo $row['city']; ?>">

         <label for="province">Province:</label>
         <input type="text" id="province" name="province" value="<?php echo
$row['province']; ?>">

         <label for="postal_code">Postal Code:</label>
```

```
        <input type="text" id="postal_code" name="postal_code" value="<?php echo
$row['postal_code']; ?>">

        <label for="personnel_id">Personnel ID:</label>
        <input type="number" id="personnel_id" name="personnel_id" value="<?php
echo $row['personnel_id']; ?>">

        <label for="email_address">Email Address:</label>
        <input type="email" id="email_address" name="email_address" value="<?php
echo $row['email_address']; ?>">

        <label for="primary_family_member_id">Primary Family Member ID:</label>
        <input type="number" id="primary_family_member_id"
name="primary_family_member_id" value="<?php echo
$row['primary_family_member_id']; ?>">

        <input type="submit" value="Update Family Member">
    </form>
  </div>
</body>
</html>
```

4. Create/Delete/Edit/Display a ClubMember.

```
<!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <title>Manage Club Members</title>
  <style>
    body {
      background-color: #f0f8ff;
      color: #333;
      font-family: Arial, sans-serif;
    }

    h2 {
      color: #2e8b57;
      font-size: 200%;
    }
```

```
        th {
            color: #4682b4;
            font-family: Arial, sans-serif;
            font-size: 100%;
        }

        .form {
            width: 800px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: center;
            font-size: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form a {
            color: #2e8b57;
            text-decoration: none;
            font-size: 24px;
            display: block;
            margin: 10px 0;
        }

        .form a:hover {
            color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form">
        <p style="font-size: 30px;">Manage Club Members</p>
        <p><a href="CreateClubMembers.php">Create Club Member</a></p>
        <p><a href="DisplayClubMember.php">View Club Members</a></p>

    </div>
</body>

</html>
```

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Create Club Member</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        .form-container {
            width: 600px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: left;
            font-size: 16px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
```

```
        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form-container">
        <h2>Create a New Club Member</h2>
        <?php
        include 'database.php';

        // Check connection
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }

        if ($_SERVER['REQUEST_METHOD'] == 'POST') {
            $member_id = $_POST['member_id'];
            $membership_number = $_POST['membership_number'];
            $first_name = $_POST['first_name'];
            $last_name = $_POST['last_name'];
            $date_of_birth = $_POST['date_of_birth'];
            $social_security_number = $_POST['social_security_number'];
            $medicare_card_number = $_POST['medicare_card_number'];
            $telephone_number = $_POST['telephone_number'];
            $address = $_POST['address'];
            $city = $_POST['city'];
            $province = $_POST['province'];
            $postal_code = $_POST['postal_code'];
            $family_member_id = $_POST['family_member_id'];
            $active = $_POST['active'];

            // SQL query to insert data
            $sql = "INSERT INTO ClubMembers (member_id, membership_number,
first_name, last_name, date_of_birth, social_security_number,
```

```
medicare_card_number, telephone_number, address, city, province, postal_code,
family_member_id, active)
                VALUES ($member_id, '$membership_number', '$first_name',
'$last_name', '$date_of_birth', '$social_security_number', '$medicare_card_number',
'$telephone_number', '$address', '$city', '$province', '$postal_code',
'$family_member_id', '$active')";

        if ($conn->query($sql) === TRUE) {
            echo "New club member created in database";
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }

        $conn->close();
    }
    ?>
    <form action="" method="POST">
        <label for="member_id">Member ID:</label>
        <input type="number" id="member_id" name="member_id" required>

        <label for="membership_number">Membership Number:</label>
        <input type="number" id="membership_number"
name="membership_number" required>

        <label for="first_name">First Name:</label>
        <input type="text" id="first_name" name="first_name" required>

        <label for="last_name">Last Name:</label>
        <input type="text" id="last_name" name="last_name" required>

        <label for="date_of_birth">Date of Birth:</label>
        <input type="date" id="date_of_birth" name="date_of_birth" required>

        <label for="social_security_number">Social Security Number:</label>
        <input type="text" id="social_security_number"
name="social_security_number" required>

        <label for="medicare_card_number">Medicare Card Number:</label>
        <input type="text" id="medicare_card_number"
name="medicare_card_number">

        <label for="telephone_number">Telephone Number:</label>
        <input type="text" id="telephone_number" name="telephone_number">

        <label for="address">Address:</label>
```

```
        <input type="text" id="address" name="address">

        <label for="city">City:</label>
        <input type="text" id="city" name="city">

        <label for="province">Province:</label>
        <input type="text" id="province" name="province">

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code">

        <label for="family_member_id">Family Member ID:</label>
        <input type="number" id="family_member_id" name="family_member_id">

        <label for="active">Active:</label>
        <select id="active" name="active" required>
            <option value="1">Yes</option>
            <option value="0">No</option>
        </select>

        <input type="submit" value="Create Member">
      </form>
   </div>
</body>

</html>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if (isset($_GET['member_id'])) {
    $member_id = $_GET['member_id'];

    // SQL query to delete data
    $sql = "DELETE FROM ClubMembers WHERE member_id = $member_id";
    header("Location: DisplayClubMember.php");
    if ($conn->query($sql) === TRUE) {
```

```
        echo "Club member deleted from database";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();
    // Redirect to the members list page after deletion

    exit;
} else {
    echo "Invalid request";
}
?>
```

```
<?php
include 'database.php';

$sql = "SELECT * FROM ClubMembers";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    echo "<h2>Club Members</h2>";
    echo "<table border='1'>
            <tr>
                <th>Member ID</th>
                <th>Membership Number</th>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Date of Birth</th>
                <th>Social Security Number</th>
                <th>Medicare Card Number</th>
                <th>Telephone Number</th>
                <th>Address</th>
                <th>City</th>
                <th>Province</th>
                <th>Postal Code</th>
                <th>Family Member ID</th>
                <th>Active</th>
                <th>Actions</th>
            </tr>";
    while($row = $result->fetch_assoc()) {
        echo "<tr>
```

```
            <td>" . $row["member_id"]. "</td>
            <td>" . $row["membership_number"]. "</td>
            <td>" . $row["first_name"]. "</td>
            <td>" . $row["last_name"]. "</td>
            <td>" . $row["date_of_birth"]. "</td>
            <td>" . $row["social_security_number"]. "</td>
            <td>" . $row["medicare_card_number"]. "</td>
            <td>" . $row["telephone_number"]. "</td>
            <td>" . $row["address"]. "</td>
            <td>" . $row["city"]. "</td>
            <td>" . $row["province"]. "</td>
            <td>" . $row["postal_code"]. "</td>
            <td>" . $row["family_member_id"]. "</td>
            <td>" . ($row["active"] ? 'Yes' : 'No') . "</td>
            <td>
               <a href='EditClubMember.php?member_id=" . $row["member_id"].
"'>Edit</a> |
               <a href='DeleteClubMember.php?member_id=" . $row["member_id"].
"'>Delete</a>
            </td>
         </tr>";
   }
   echo "</table>";
} else {
   echo "0 results";
}

$conn->close();
?>
```

```
<?php
      include 'database.php'; // Ensure the path is correct

      // Check connection
      if ($conn->connect_error) {
         die("Connection failed: " . $conn->connect_error);
      }


      if ($_SERVER['REQUEST_METHOD'] == 'POST') {
         $member_id = $_POST['member_id'];
         $first_name = $_POST['first_name'];
```

```
        $last_name = $_POST['last_name'];
        $date_of_birth = $_POST['date_of_birth'];
        $social_security_number = $_POST['social_security_number'];
        $medicare_card_number = $_POST['medicare_card_number'];
        $telephone_number = $_POST['telephone_number'];
        $address = $_POST['address'];
        $city = $_POST['city'];
        $province = $_POST['province'];
        $postal_code = $_POST['postal_code'];
        $family_member_id = $_POST['family_member_id'];
        $active = isset($_POST['active']) ? 1 : 0;


        $sql = "UPDATE ClubMembers SET first_name='$first_name',
last_name='$last_name',
date_of_birth='$date_of_birth',social_security_number='$social_security_number',me
dicare_card_number='$medicare_card_number,
telephone_number='$telephone_number', address='$address', city='$city',
province='$province', postal_code='$postal_code',
family_member_id='$family_member_id', active=$active WHERE
member_id=$member_id";

        if ($conn->query($sql) === TRUE) {

            // Redirect to display member page

header("Location:https://nnc353.encs.concordia.ca/DisplayClubMember.php");
            exit;
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }
    } elseif (isset($_GET['member_id'])) {
        $member_id = $_GET['member_id'];

        // Get current club member information
        $sql = "SELECT * FROM ClubMembers WHERE member_id = $member_id";
        $result = $conn->query($sql);

        if ($result->num_rows > 0) {
            $row = $result->fetch_assoc();
        } else {
            echo "No club member found with ID $member_id";
            exit;
        }
    } else {
```

```
        echo "No member ID provided. Please access this page through the display
page.";
        exit;
    }

    $conn->close();
    ?>
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>Edit Club Member</title>
  <style>
    body {
      background-color: #f0f8ff;
      color: #333;
      font-family: Arial, sans-serif;
    }

    h2 {
      color: #2e8b57;
      font-size: 200%;
    }

    .form-container {
      width: 600px;
      background-color: #fff;
      color: #333;
      border: 2px solid #ccc;
      margin: 50px auto;
      padding: 20px;
      text-align: left;
      font-size: 16px;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    .form-container label {
      display: block;
      margin: 10px 0 5px;
    }

    .form-container input,
    .form-container select {
      width: 100%;
```

```
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>
<body>
    <div class="form-container">
        <h2>Edit Club Member</h2>

        <form action="EditClubMember.php" method="POST">
            <input type="hidden" id="member_id" name="member_id" value="<?php echo
$row['member_id']; ?>" required>

            <label for="first_name">First Name:</label>
            <input type="text" id="first_name" name="first_name" value="<?php echo
$row['first_name']; ?>" required>

            <label for="last_name">Last Name:</label>
            <input type="text" id="last_name" name="last_name" value="<?php echo
$row['last_name']; ?>" required>

            <label for="date_of_birth">Date of Birth:</label>
            <input type="date" id="date_of_birth" name="date_of_birth" value="<?php
echo $row['date_of_birth']; ?>" required>

            <label for="telephone_number">Telephone Number:</label>
            <input type="text" id="telephone_number" name="telephone_number"
value="<?php echo $row['telephone_number']; ?>" required>

            <label for="social_security_number"> SSN:</label>
```

```
        <input type="text" id="social_security_number"
name="social_security_number" value="<?php echo
$row['social_security_number']; ?>" required>

        <label for="medicare_card_number">Address:</label>
        <input type="text" id="medicare_card_number"
name="medicare_card_number" value="<?php echo
$row['medicare_card_number']; ?>" required>

        <label for="address">Address:</label>
        <input type="text" id="address" name="address" value="<?php echo
$row['address']; ?>" required>

        <label for="city">City:</label>
        <input type="text" id="city" name="city" value="<?php echo $row['city']; ?>"
required>

        <label for="province">Province:</label>
        <input type="text" id="province" name="province" value="<?php echo
$row['province']; ?>" required>

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code" value="<?php echo
$row['postal_code']; ?>" required>

        <label for="active">Active:</label>
        <input type="checkbox" id="active" name="active" <?php if($row['active']) echo
'checked'; ?>>

        <input type="submit" value="Update Club Member">
      </form>
   </div>
</body>
</html>
```

5. Create/Delete/Edit/Display a TeamFormation

```
<!DOCTYPE html>
<html>

<head>
   <meta charset="utf-8">
```

```
    <title>Manage Team Formations</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        th {
            color: #4682b4;
            font-family: Arial, sans-serif;
            font-size: 100%;
        }

        .form {
            width: 800px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: center;
            font-size: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form a {
            color: #2e8b57;
            text-decoration: none;
            font-size: 24px;
            display: block;
            margin: 10px 0;
        }

        .form a:hover {
            color: #4682b4;
        }
    </style>
</head>
```

```
<body>
   <div class="form">
      <p style="font-size: 30px;">Manage Team Formations</p>
      <p><a href="CreateTeamFormation.php">Create Team Formation</a></p>
      <p><a href="DisplayTeamFormation.php">Display Team Formations</a></p>

   </div>
</body>

</html>
```

```
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8">
   <title>Create Team Formation</title>
   <style>
      body {
         background-color: #f0f8ff;
         color: #333;
         font-family: Arial, sans-serif;
      }

      h2 {
         color: #2e8b57;
         font-size: 200%;
      }

      .form-container {
         width: 600px;
         background-color: #fff;
         color: #333;
         border: 2px solid #ccc;
         margin: 50px auto;
         padding: 20px;
         text-align: left;
         font-size: 16px;
         border-radius: 10px;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }
```

```
        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>
<body>
    <div class="form-container">
        <h2>Create a New Team Formation</h2>
        <?php
        include 'database.php';

        // Check connection
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }

        if ($_SERVER['REQUEST_METHOD'] == 'POST') {
            $formation_id = $_POST['formation_id'];
            $team_id = $_POST['team_id'];
            $session_date = $_POST['session_date'];
            $session_time = $_POST['session_time'];
            $session_type = $_POST['session_type'];
```

```
        $score = $_POST['score'];
        $session_address = $_POST['session_address'];

        $sql = "INSERT INTO teamformations (formation_id, team_id, session_date,
session_time, session_type, score, session_address)
        VALUES ($formation_id, $team_id, '$session_date', '$session_time',
'$session_type', $score, '$session_address')";


        if ($conn->query($sql) === TRUE) {
            echo "New team formation created successfully";
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }

        $conn->close();
    }
    ?>
    <form action="" method="POST">
        <label for="formation_id">Formation ID:</label>
        <input type="number" id="formation_id" name="formation_id" required>

        <label for="team_id">Team ID:</label>
        <input type="number" id="team_id" name="team_id" required>

        <label for="session_date">Session Date:</label>
        <input type="date" id="session_date" name="session_date" required>

        <label for="session_time">Session Time:</label>
        <input type="time" id="session_time" name="session_time" required>

        <label for="session_type">Session Type:</label>
        <select id="session_type" name="session_type" required>
            <option value="Game">Game</option>
            <option value="Training">Training</option>
        </select>

        <label for="score">Score:</label>
        <input type="number" id="score" name="score">

        <label for="session_address">Session Address:</label>
        <input type="text" id="session_address" name="session_address" required>

        <input type="submit" value="Create Team Formation">
    </form>
```

```
    </div>
</body>
</html>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if (isset($_GET['formation_id'])) {
    $formation_id = $_GET['formation_id'];


    $sql = "DELETE FROM teamformations WHERE formation_id = $formation_id";
    header("Location: DisplayTeamFormations.php");
    if ($conn->query($sql) === TRUE) {
        echo "Team formation deleted from database";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();

    exit;
} else {
    echo "Invalid request";
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Team Formations</title>
    <style>
        body {
            background-color: #f0f8ff;
```

```
        color: #333;
        font-family: Arial, sans-serif;
    }

    h2 {
        color: #2e8b57;
        font-size: 200%;
    }

    .table-container {
        width: 80%;
        margin: 50px auto;
        background-color: #fff;
        border: 2px solid #ccc;
        padding: 20px;
        text-align: left;
        font-size: 16px;
        border-radius: 10px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    table {
        width: 100%;
        border-collapse: collapse;
        margin-bottom: 20px;
    }

    table, th, td {
        border: 1px solid #ccc;
    }

    th, td {
        padding: 10px;
        text-align: left;
    }

    th {
        background-color: #f2f2f2;
    }

    .actions {
        text-align: center;
    }
  </style>
</head>
```

```
<body>
   <div class="table-container">
      <h2>Team Formations</h2>
      <?php
      include 'database.php';

      // Check connection
      if ($conn->connect_error) {
         die("Connection failed: " . $conn->connect_error);
      }

      $sql = "SELECT * FROM teamformations";
      $result = $conn->query($sql);

      if ($result->num_rows > 0) {
         echo "<table>
               <tr>
                  <th>Formation ID</th>
                  <th>Team ID</th>
                  <th>Session Date</th>
                  <th>Session Time</th>
                  <th>Session Type</th>
                  <th>Score</th>
                  <th>Session Address</th>
                  <th>Actions</th>
               </tr>";
         while($row = $result->fetch_assoc()) {
            echo "<tr>
                  <td>" . $row["formation_id"] . "</td>
                  <td>" . $row["team_id"] . "</td>
                  <td>" . $row["session_date"] . "</td>
                  <td>" . $row["session_time"] . "</td>
                  <td>" . $row["session_type"] . "</td>
                  <td>" . $row["score"] . "</td>
                  <td>" . $row["session_address"] . "</td>
                  <td class='actions'>
                     <a href='editteamformation.php?formation_id=" .
$row["formation_id"] . "'>Edit</a> |
                     <a href='deleteteamformation.php?formation_id=" .
$row["formation_id"] . "'>Delete</a>
                  </td>
               </tr>";
         }
         echo "</table>";
      } else {
```

```
        echo "0 results";
    }

    $conn->close();
    ?>
  </div>
</body>
</html>
```

```
<?php
include 'database.php';


if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}


if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $formation_id = $_POST['formation_id'];
    $team_id = $_POST['team_id'];
    $session_date = $_POST['session_date'];
    $session_time = $_POST['session_time'];
    $session_type = $_POST['session_type'];
    $score = $_POST['score'];
    $session_address = $_POST['session_address'];

    $sql = "UPDATE teamformations SET team_id='$team_id',
session_date='$session_date', session_time='$session_time',
session_type='$session_type', score=$score, session_address='$session_address'
WHERE formation_id=$formation_id";

    if ($conn->query($sql) === TRUE) {

        header("Location: DisplayTeamFormations.php");
        exit;
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
} elseif (isset($_GET['formation_id'])) {
    $formation_id = $_GET['formation_id'];
```

```
    $sql = "SELECT * FROM teamformations WHERE formation_id = $formation_id";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
    } else {
        echo "No team formation found with ID $formation_id";
        exit;
    }
} else {
    echo "No formation ID provided. Please access this page through the display
page.";
    exit;
}

$conn->close();
?>

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Edit Team Formation</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        .form-container {
            width: 600px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: left;
            font-size: 16px;
```

```
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>
<body>
    <div class="form-container">
        <h2>Edit Team Formation</h2>

        <form action="editteamformation.php" method="POST">
            <input type="hidden" id="formation_id" name="formation_id" value="<?php
echo $row['formation_id']; ?>" required>

            <label for="team_id">Team ID:</label>
            <input type="number" id="team_id" name="team_id" value="<?php echo
$row['team_id']; ?>" required>

            <label for="session_date">Session Date:</label>
```

```
        <input type="date" id="session_date" name="session_date" value="<?php
echo $row['session_date']; ?>" required>

        <label for="session_time">Session Time:</label>
        <input type="time" id="session_time" name="session_time" value="<?php
echo $row['session_time']; ?>" required>

        <label for="session_type">Session Type:</label>
        <select id="session_type" name="session_type" required>
            <option value="Game" <?php if($row['session_type'] == 'Game') echo
'selected'; ?>>Game</option>
            <option value="Training" <?php if($row['session_type'] == 'Training') echo
'selected'; ?>>Training</option>
        </select>

        <label for="score">Score:</label>
        <input type="number" id="score" name="score" value="<?php echo
$row['score']; ?>">

        <label for="session_address">Session Address:</label>
        <input type="text" id="session_address" name="session_address"
value="<?php echo $row['session_address']; ?>" required>

        <input type="submit" value="Update Team Formation">
    </form>
  </div>
</body>
</html>
```

6. Assign/Delete/Edit a club member to a team formation. (Attempt to assign a conflicting assignment for a club member in two team formations on the same day).

```
    <!DOCTYPE html>
<html>

<head>
  <meta charset="utf-8">
  <title>Manage Club Members to Team Formation</title>
  <style>
    body {
      background-color: #f0f8ff;
      color: #333;
```

```
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        th {
            color: #4682b4;
            font-family: Arial, sans-serif;
            font-size: 100%;
        }

        .form {
            width: 800px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: center;
            font-size: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form a {
            color: #2e8b57;
            text-decoration: none;
            font-size: 24px;
            display: block;
            margin: 10px 0;
        }

        .form a:hover {
            color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form">
        <p style="font-size: 30px;">Manage Club Members to Team Formation</p>
        <p><a href="DisplayTeamFormation1.php">Display Club Member in Team
```

```
Formation</a></p>
      <p><a href="AssignClubMembersToTeamFormation.php">Assign Club Members
to Team Formation</a></p>

   </div>
</body>

</html>
```

```
    <!DOCTYPE html>
<html>

<head>
   <meta charset="utf-8">
   <title>Assign Club Members to a Team Formation</title>
   <style>
      body {
         background-color: #f0f8ff;
         color: #333;
         font-family: Arial, sans-serif;
      }

      h2 {
         color: #2e8b57;
         font-size: 200%;
      }

      .form-container {
         width: 600px;
         background-color: #fff;
         color: #333;
         border: 2px solid #ccc;
         margin: 50px auto;
         padding: 20px;
         text-align: left;
         font-size: 16px;
         border-radius: 10px;
         box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }

      .form-container label {
         display: block;
```

```
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form-container">
        <h2>Assign Club Member to Team Formation</h2>
        <?php
        include 'database.php';

        // Check connection
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }

        if ($_SERVER['REQUEST_METHOD'] == 'POST') {
            $formation_id = $_POST['formation_id'];
            $club_member_id = $_POST['club_member_id'];
            $role = $_POST['role'];

            // SQL query to assign club member to team formation
            $sql = "INSERT INTO players (formation_id, club_member_id, role)
```

```
            VALUES ($formation_id, $club_member_id, '$role')";

        if ($conn->query($sql) === TRUE) {
            echo "Club member assigned to team formation";
        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }

        $conn->close();
    }
    ?>
    <form action="" method="POST">
        <label for="formation_id">Formation ID:</label>
        <input type="number" id="formation_id" name="formation_id" required>

        <label for="club_member_id">Club Member ID:</label>
        <input type="number" id="club_member_id" name="club_member_id"
required>

        <label for="role">Role:</label>
        <select id="role" name="role" required>
            <option value="Goalkeeper">Goalkeeper</option>
            <option value="Defender">Defender</option>
            <option value="Midfielder">Midfielder</option>
            <option value="Forward">Forward</option>
        </select>

        <input type="submit" value="Assign Member">
    </form>
  </div>
</body>

</html>
```

```
<?php
include 'database.php';

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
```

```
if (isset($_GET['player_id'])) {
    $player_id = $_GET['player_id'];

    // SQL query to delete data
    $sql = "DELETE FROM players WHERE player_id = $player_id";
    header("Location: DisplayTeamFormation1.php");
    if ($conn->query($sql) === TRUE) {
        echo "players deleted from database";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }

    $conn->close();
    // Redirect to the members list page after deletion

    exit;
} else {
    echo "Invalid request";
}
?>
```

```
 <!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Team Formations</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }

        .table-container {
            width: 80%;
            margin: 50px auto;
            background-color: #fff;
```

```
            border: 2px solid #ccc;
            padding: 20px;
            text-align: left;
            font-size: 16px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        table {
            width: 100%;
            border-collapse: collapse;
            margin-bottom: 20px;
        }

        table, th, td {
            border: 1px solid #ccc;
        }

        th, td {
            padding: 10px;
            text-align: left;
        }

        th {
            background-color: #f2f2f2;
        }

        .actions {
            text-align: center;
        }
    </style>
</head>
<body>
    <div class="table-container">
        <h2>Team Member</h2>
        <?php
        include 'database.php';

        // Check connection
        if ($conn->connect_error) {
            die("Connection failed: " . $conn->connect_error);
        }

        $sql = "SELECT p.player_id,
                       p.formation_id,
```

```
            p.club_member_id,
            p.role,cm.membership_number,
            cm.first_name,
            cm.last_name,
            cm.date_of_birth,
            cm.social_security_number,
            cm.medicare_card_number,
            cm.family_member_id,
            cm.active
            FROM players p
            left join ClubMembers cm ON p.club_member_id=cm.member_id";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
   echo "<table>
         <tr>
            <th>player ID</th>
                  <th>formation ID</th>
                  <th>club member ID</th>
                  <th>role</th>
            <th>Membership Number</th>
            <th>First Name</th>
            <th>Last Name</th>
            <th>Date of Birth</th>
            <th>SSN</th>
            <th>MCN</th>
            <th>Family Member ID</th>
            <th>Active</th>
         </tr>";
   while($row = $result->fetch_assoc()) {
      echo "<tr>
                  <td>" . $row["player_id"] . "</td>
                  <td>" . $row["formation_id"] . "</td>
            <td>" . $row["club_member_id"] . "</td>
                  <td>" . $row["role"] . "</td>
            <td>" . $row["membership_number"] . "</td>
            <td>" . $row["first_name"] . "</td>
            <td>" . $row["last_name"] . "</td>
            <td>" . $row["date_of_birth"] . "</td>
            <td>" . $row["social_security_number"] . "</td>
            <td>" . $row["medicare_card_number"] . "</td>
            <td>" . $row["family_member_id"] . "</td>
            <td>" . $row["active"] . "</td>
            <td class='actions'>
               <a href='EditClubMemberToTeamFormation.php?player_id=" .
```

```
$row["player_id"] . "'>Edit</a> |
                    <a href='DeleteClubMemberToTeamFormation.php?player_id=" .
$row["player_id"] . "'>Delete</a>
                </td>
            </tr>";
        }
        echo "</table>";
    } else {
        echo "0 results";
    }

    $conn->close();
    ?>
  </div>
</body>
</html>
```

```
<?php
include 'database.php'; // Ensure the path is correct

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $club_member_id = $_POST['club_member_id'];
    $first_name = $_POST['first_name'];
    $last_name = $_POST['last_name'];
    $date_of_birth = $_POST['date_of_birth'];
    $social_security_number = $_POST['social_security_number'];
    $medicare_card_number = $_POST['medicare_card_number'];
    $telephone_number = $_POST['telephone_number'];
    $address = $_POST['address'];
    $city = $_POST['city'];
    $province = $_POST['province'];
    $postal_code = $_POST['postal_code'];
    $family_member_id = $_POST['family_member_id'];
    $active = isset($_POST['active']) ? 1 : 0;

    // SQL query to update data
    $sql = "UPDATE ClubMembers
            SET first_name='$first_name', last_name='$last_name',
date_of_birth='$date_of_birth',
                social_security_number='$social_security_number',
medicare_card_number='$medicare_card_number',
```

```
            telephone_number='$telephone_number', address='$address', city='$city',
province='$province',
            postal_code='$postal_code', family_member_id='$family_member_id',
active=$active
        WHERE club_member_id=$club_member_id";

    if ($conn->query($sql) === TRUE) {
        // Redirect to display member page
        header("Location: DisplayClubMember.php");
        exit;
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
} elseif (isset($_GET['club_member_id'])) {
    $club_member_id = $_GET['club_member_id'];

    // Get current club member information
    $sql = "SELECT * FROM ClubMembers WHERE club_member_id = $club_member_id";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
    } else {
        echo "No club member found with ID $club_member_id";
        exit;
    }
} else {
    echo "No member ID provided. Please access this page through the display page.";
    exit;
}

$conn->close();
?>
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Edit Club Member</title>
    <style>
        body {
            background-color: #f0f8ff;
            color: #333;
            font-family: Arial, sans-serif;
        }

        h2 {
            color: #2e8b57;
            font-size: 200%;
        }
```

```
        .form-container {
            width: 600px;
            background-color: #fff;
            color: #333;
            border: 2px solid #ccc;
            margin: 50px auto;
            padding: 20px;
            text-align: left;
            font-size: 16px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        .form-container label {
            display: block;
            margin: 10px 0 5px;
        }

        .form-container input,
        .form-container select {
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }

        .form-container input[type="submit"] {
            width: auto;
            background-color: #2e8b57;
            color: white;
            border: none;
            cursor: pointer;
            font-size: 16px;
        }

        .form-container input[type="submit"]:hover {
            background-color: #4682b4;
        }
    </style>
</head>

<body>
    <div class="form-container">
        <h2>Edit Club Member</h2>
        <form action="" method="POST">
            <input type="hidden" id="club_member_id" name="club_member_id" value="<?php
echo $row['club_member_id']; ?>" required>
```

```
        <label for="first_name">First Name:</label>
        <input type="text" id="first_name" name="first_name" value="<?php echo
$row['first_name']; ?>" required>

        <label for="last_name">Last Name:</label>
        <input type="text" id="last_name" name="last_name" value="<?php echo
$row['last_name']; ?>" required>

        <label for="date_of_birth">Date of Birth:</label>
        <input type="date" id="date_of_birth" name="date_of_birth" value="<?php echo
$row['date_of_birth']; ?>" required>

        <label for="social_security_number">Social Security Number:</label>
        <input type="text" id="social_security_number" name="social_security_number"
value="<?php echo $row['social_security_number']; ?>" required>

        <label for="medicare_card_number">Medicare Card Number:</label>
        <input type="text" id="medicare_card_number" name="medicare_card_number"
value="<?php echo $row['medicare_card_number']; ?>" required>

        <label for="telephone_number">Telephone Number:</label>
        <input type="text" id="telephone_number" name="telephone_number" value="<?php
echo $row['telephone_number']; ?>" required>

        <label for="address">Address:</label>
        <input type="text" id="address" name="address" value="<?php echo
$row['address']; ?>" required>

        <label for="city">City:</label>
        <input type="text" id="city" name="city" value="<?php echo $row['city']; ?>" required>

        <label for="province">Province:</label>
        <input type="text" id="province" name="province" value="<?php echo
$row['province']; ?>" required>

        <label for="postal_code">Postal Code:</label>
        <input type="text" id="postal_code" name="postal_code" value="<?php echo
$row['postal_code']; ?>" required>

        <label for="family_member_id">Family Member ID:</label>
        <input type="number" id="family_member_id" name="family_member_id"
value="<?php echo $row['family_member_id']; ?>" required>

        <label for="active">Active:</label>
        <input type="checkbox" id="active" name="active" <?php if ($row['active']) echo
'checked'; ?>>

        <input type="submit" value="Update Club Member">
    </form>
  </div>
```

```
</body>

</html>
```

7. Get complete details for every location in the system. Details include address, city, province, postal-code, phone number, web address, type (Head, Branch), capacity, general manager name, and the number of club members associated with that location. The results should be displayed sorted in ascending order by Province, then by city.

```
        <?php
require_once 'database.php';

$query = "SELECT l.name, l.address, l.city, l.province, l.postal_code,
l.phone_number, l.web_address, l.type, l.capacity, p.first_name AS
general_manager_first_name, p.last_name AS general_manager_last_name,
COUNT(cm.member_id) AS num_club_members
        FROM Locations l
          LEFT JOIN ClubMemberDate cmd ON l.location_id = cmd.location_id
        LEFT JOIN ClubMembers cm ON cmd.member_id = cm.member_id
        LEFT JOIN PersonnelLocation g ON l.location_id = g.location_id
        Left join Personnel p ON p.personnel_id =g.personnel_id
        WHERE p.role = 'Administrator' AND g.end_date IS NULL
        GROUP BY l.location_id, p.first_name, p.last_name
        ORDER BY l.province ASC, l.city ASC";

$result = mysqli_query($conn, $query);
?>

<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Location Details</title>
   <style>
      body {
         font-family: Verdana, sans-serif;
      }
      table {
         width: 100%;
         border-collapse: collapse;
      }
      th, td {
         border: 1px solid black;
         padding: 8px;
      }
      th {
         background-color: lightgrey;
         text-align: left;
      }
      tr:nth-child(even) {
         background-color: lightgrey;
      }
   </style>
```

```
</head>
<body>
   <h1>Location Details</h1>
   <a href="index.php" class="home-link">Back to Homepage</a>
   <table>
      <thead>
         <tr>
            <th>Name</th>
            <th>Address</th>
            <th>City</th>
            <th>Province</th>
            <th>Postal Code</th>
            <th>Phone Number</th>
            <th>Web Address</th>
            <th>Type</th>
            <th>Capacity</th>
            <th>General Manager Name</th>
            <th>Number of Club Members</th>
         </tr>
      </thead>
      <tbody>
         <?php while($row = mysqli_fetch_assoc($result)) { ?>
            <tr>
               <td><?php echo htmlspecialchars($row['name']); ?></td>
               <td><?php echo htmlspecialchars($row['address']); ?></td>
               <td><?php echo htmlspecialchars($row['city']); ?></td>
               <td><?php echo htmlspecialchars($row['province']); ?></td>
               <td><?php echo htmlspecialchars($row['postal_code']); ?></td>
               <td><?php echo htmlspecialchars($row['phone_number']); ?></td>
               <td><?php echo htmlspecialchars($row['web_address']); ?></td>
               <td><?php echo htmlspecialchars($row['type']); ?></td>
               <td><?php echo htmlspecialchars($row['capacity']); ?></td>
               <td><?php echo htmlspecialchars($row['general_manager_first_name'] . '
' . $row['general_manager_last_name']); ?></td>
               <td><?php echo htmlspecialchars($row['num_club_members']); ?></td>
            </tr>
         <?php } ?>
      </tbody>
   </table>
</body>
</html>

<?php mysqli_close($conn); ?>
```

8. For a given family member, get details of the secondary family member and all the associated club members with the primary family member. Information includes first name, last name and phone number of the secondary family member, and for every associated club member, the club membership number, first-name, last-name, date of birth, Social Security Number, Medicare card number, telephone-number, address, city, province, postal-code, and relationship with the secondary family member.

```
  <?php
require_once 'database.php';

// Check if the form is submitted and retrieve the input values
$first_name = isset($_GET['first_name']) ? $_GET['first_name'] : '';
$last_name = isset($_GET['last_name']) ? $_GET['last_name'] : '';

$details = [];

if ($first_name && $last_name) {
    $query = "
        SELECT fm2.first_name AS sec_first_name,
            fm2.last_name AS sec_last_name,
            fm2.telephone_number AS sec_telephone_number,
            cm.membership_number,
            cm.first_name AS club_first_name,
            cm.last_name AS club_last_name,
            cm.date_of_birth,
            cm.social_security_number,
            cm.medicare_card_number,
            cm.telephone_number AS club_telephone_number,
            cm.address,
            cm.city,
            cm.province,
            cm.postal_code,
            fm.first_name AS primary_first_name,
            fm.last_name AS primary_last_name,
            cmfm.relationship
        FROM FamilyMembers fm
        JOIN ClubMembersFamilyMembers cmfm ON fm.family_member_id =
cmfm.family_member_id
        JOIN ClubMembers cm ON cmfm.club_member_id = cm.member_id
        JOIN FamilyMembers fm2 ON fm.primary_family_member_id = fm2.family_member_id
        WHERE fm2.first_name = ? AND fm2.last_name = ?
    ";

    // Prepare and execute the query
    if ($stmt = $conn->prepare($query)) {
        $stmt->bind_param("ss", $first_name, $last_name); // Bind parameters (two strings)
        $stmt->execute();
        $result = $stmt->get_result();
```

```
        $details = $result->fetch_all(MYSQLI_ASSOC);
        $stmt->close();
    } else {
        echo "Failed to prepare SQL statement: " . $conn->error;
        exit;
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Family Member Details</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Family Member Details</h1>
    <form method="get" action="">
        <label for="first_name">First Name:</label>
        <input type="text" id="first_name" name="first_name" value="<?php echo
htmlspecialchars($first_name); ?>" required>
        <br><br>
        <label for="last_name">Last Name:</label>
        <input type="text" id="last_name" name="last_name" value="<?php echo
htmlspecialchars($last_name); ?>" required>
```

```
      <br><br>
      <input type="submit" value="Search">
   </form>

   <?php if ($first_name && $last_name): ?>
      <h2>Family Member Details for <?php echo htmlspecialchars($first_name . ' ' .
$last_name); ?></h2>
      <a href="index.php" class="home-link">Back to Homepage</a>

      <?php if (!empty($details)): ?>
         <h2>Associated Club Members</h2>
         <table>
            <thead>
               <tr>
                  <th>Club Membership Number</th>
                  <th>First Name</th>
                  <th>Last Name</th>
                  <th>Date of Birth</th>
                  <th>Social Security Number</th>
                  <th>Medicare Card Number</th>
                  <th>Telephone Number</th>
                  <th>Address</th>
                  <th>City</th>
                  <th>Province</th>
                  <th>Postal Code</th>
                  <th>Primary Family Member First Name</th>
                  <th>Primary Family Member Last Name</th>
                  <th>Relationship with Secondary Family Member</th>
               </tr>
            </thead>
            <tbody>
               <?php foreach ($details as $detail): ?>
               <tr>
                  <td><?php echo htmlspecialchars($detail['membership_number']); ?></td>
                  <td><?php echo htmlspecialchars($detail['club_first_name']); ?></td>
                  <td><?php echo htmlspecialchars($detail['club_last_name']); ?></td>
                  <td><?php echo htmlspecialchars($detail['date_of_birth']); ?></td>
                  <td><?php echo htmlspecialchars($detail['social_security_number']); ?></td>
                  <td><?php echo htmlspecialchars($detail['medicare_card_number']); ?></td>
                  <td><?php echo htmlspecialchars($detail['club_telephone_number']); ?></td>
                  <td><?php echo htmlspecialchars($detail['address']); ?></td>
                  <td><?php echo htmlspecialchars($detail['city']); ?></td>
                  <td><?php echo htmlspecialchars($detail['province']); ?></td>
                  <td><?php echo htmlspecialchars($detail['postal_code']); ?></td>
                  <td><?php echo htmlspecialchars($detail['primary_first_name']); ?></td>
                  <td><?php echo htmlspecialchars($detail['primary_last_name']); ?></td>
                  <td><?php echo htmlspecialchars($detail['relationship']); ?></td>
               </tr>
               <?php endforeach; ?>
```

```
            </tbody>
        </table>
    <?php else: ?>
        <p>No details found for <?php echo htmlspecialchars($first_name . ' ' .
$last_name); ?>.</p>
    <?php endif; ?>
  <?php endif; ?>
</body>
</html>
```

9. For a given location and day, get details of all the teams formations recorded in the system. Details include, head coach first name and last name, start time of the training or game session, address of the session, nature of the session (training or game), the teams name, the score (if the session is in the future, then score will be null), and the first name, last name and role (goalkeeper, defender, etc.) of every player in the team. Results should be displayed sorted in ascending order by the start time of the session.

```
 <?php
require_once 'database.php';

// Check if form data is submitted and retrieve the input values
$location_id = isset($_GET['location_id']) ? $_GET['location_id'] : '';
$day = isset($_GET['day']) ? $_GET['day'] : '';
$team_formations = [];

if ($location_id && $day) {
   // Updated query with LEFT JOIN to include all formations even if there are no players
   $query = "
      SELECT
                  p.first_name AS coach_first_name,
      p.last_name AS coach_last_name,
      tf.session_time AS start_time,
      l.name AS address,
      tf.session_type AS nature,
      t.TeamName AS team_name,
      CASE
         WHEN tf.session_date > ? THEN NULL
         ELSE tf.score
      END AS score,
      cm.first_name AS player_first_name,
      cm.last_name AS player_last_name,
      pl.role
FROM teamformations tf
left JOIN Teams t ON tf.team_id = t.TeamID
left JOIN Locations l ON t.location_id = l.location_id
left JOIN Personnel p ON t.HeadCoachID = p.personnel_id
LEFT JOIN players pl ON pl.formation_id = tf.formation_id
```

```
LEFT JOIN ClubMembers cm ON pl.club_member_id = cm.member_id
WHERE tf.team_id IN (
        SELECT TeamID
        FROM Teams
        WHERE location_id = ?
    )
    AND tf.session_date = ?
    ORDER BY tf.session_time ASC
    ";

    if ($stmt = $conn->prepare($query)) {
        $stmt->bind_param("sss", $day, $location_id, $day);
        $stmt->execute();
        $result = $stmt->get_result();
        $team_formations = $result->fetch_all(MYSQLI_ASSOC);
        $stmt->close();
    } else {
        echo "Failed to prepare SQL statement: " . $conn->error;
        exit;
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Team Formations</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
```

```
            background-color: lightgrey;
        }
        .header {
            margin-bottom: 20px;
        }
    </style>
</head>
<body>
    <h1>Team Formations</h1>
    <form method="get" action="">
        <label for="location_id">Location ID:</label>
        <input type="text" id="location_id" name="location_id" value="<?php echo
htmlspecialchars($location_id); ?>" required>
        <br><br>
        <label for="day">Date (MM-DD-YYYY):</label>
        <input type="date" id="day" name="day" value="<?php echo htmlspecialchars($day); ?>"
required>
        <br><br>
        <input type="submit" value="Search">
    </form>

    <?php if ($location_id && $day): ?>
        <a href="index.php" class="home-link">Back to Homepage</a>

        <?php if (!empty($team_formations)): ?>
            <h2>Team Formations</h2>
            <table>
                <thead>
                    <tr>
                        <th>Head Coach First Name</th>
                        <th>Head Coach Last Name</th>
                        <th>Start Time</th>
                        <th>Address</th>
                        <th>Nature</th>
                        <th>Team Name</th>
                        <th>Score</th>
                        <th>Player First Name</th>
                        <th>Player Last Name</th>
                        <th>Player Role</th>
                    </tr>
                </thead>
                <tbody>
                    <?php foreach ($team_formations as $formation): ?>
                    <tr>
                        <td><?php echo htmlspecialchars($formation['coach_first_name']); ?></td>
                        <td><?php echo htmlspecialchars($formation['coach_last_name']); ?></td>
                        <td><?php echo htmlspecialchars($formation['start_time']); ?></td>
                        <td><?php echo htmlspecialchars($formation['address']); ?></td>
                        <td><?php echo htmlspecialchars($formation['nature']); ?></td>
```

```
                <td><?php echo htmlspecialchars($formation['team_name']); ?></td>
                <td><?php echo htmlspecialchars($formation['score']); ?></td>
                <td><?php echo htmlspecialchars($formation['player_first_name']); ?></td>
                <td><?php echo htmlspecialchars($formation['player_last_name']); ?></td>
                <td><?php echo htmlspecialchars($formation['role']); ?></td>
            </tr>
            <?php endforeach; ?>
        </tbody>
    </table>
  <?php else: ?>
    <p>No team formations found for the given location and day.</p>
  <?php endif; ?>
<?php endif; ?>
</body>
</html>
```

10. Get details of club members who are currently active and have been associated with at least four different locations and are members for at most two years. Details include Club membership number, first name and last name. Results should be displayed sorted in ascending order by club membership number.

```
<?php
include 'database.php';

// Calculate the date two years ago from today
$two_years_ago = date('Y-m-d', strtotime('-2 years'));

$query = "SELECT cm.membership_number, cm.first_name, cm.last_name
        FROM ClubMembers cm
        JOIN (
            SELECT cmd.member_id
            FROM ClubMemberDate cmd
            WHERE cmd.end_date IS NULL OR cmd.end_date <= CURDATE()
            GROUP BY cmd.member_id
            HAVING COUNT(DISTINCT cmd.location_id) >= 4
        ) AS filtered_members ON cm.member_id = filtered_members.member_id
        WHERE cm.active = 1
          AND (
            SELECT TIMESTAMPDIFF(YEAR, MIN(cmd.start_date), CURDATE())
            FROM ClubMemberDate cmd
            WHERE cmd.member_id = cm.member_id
          ) <= 2
        ORDER BY cm.membership_number ASC";

$result = mysqli_query($conn, $query);
?>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Active Club Members</title>
   <style>
      body {
         font-family: Verdana, sans-serif;
      }
      table {
         width: 100%;
         border-collapse: collapse;
      }
      th, td {
         border: 1px solid black;
         padding: 8px;
      }
      th {
         background-color: lightgrey;
         text-align: left;
      }
      tr:nth-child(even) {
         background-color: lightgrey;
      }
   </style>
</head>
<body>
   <h1>Active Club Members</h1>
   <a href="index.php" class="home-link">Back to Homepage</a>
   <table>
      <thead>
         <tr>
            <th>Club Membership Number</th>
            <th>First Name</th>
            <th>Last Name</th>
         </tr>
      </thead>
      <tbody>
         <?php while($row = mysqli_fetch_assoc($result)) { ?>
            <tr>
               <td><?php echo htmlspecialchars($row['membership_number']); ?></td>
               <td><?php echo htmlspecialchars($row['first_name']); ?></td>
               <td><?php echo htmlspecialchars($row['last_name']); ?></td>
            </tr>
         <?php } ?>
      </tbody>
   </table>
```

```
</body>
</html>

<?php mysqli_close($conn); ?>
```

11. For a given period of time, give a report of the teams' formations for all the locations. For each location, the report should include the location name, the total number of training sessions, the total number of players in the training sessions, the total number of game sessions, the total number of players in the game sessions. Results should only include locations that have at least three game sessions. Results should be displayed sorted in descending order by the total number of game sessions. For example, the period of time could be from Jan 1st, 2024, to March 31st, 2024.

```
 <?php

require_once 'database.php';

$query = "
   SELECT
      l.name AS location_name,
      COUNT(CASE WHEN tf.session_type = 'Training' THEN 1 END) AS total_training,
      COALESCE(SUM(CASE WHEN tf.session_type = 'Training' THEN player_count ELSE 0
END), 0) AS total_players_in_training,
      COUNT(CASE WHEN tf.session_type = 'Game' THEN 1 END) AS total_game,
      COALESCE(SUM(CASE WHEN tf.session_type = 'Game' THEN player_count ELSE 0
END), 0) AS total_players_in_game
   FROM
      Locations l
   LEFT JOIN
      Teams t ON l.location_id = t.location_id
   LEFT JOIN
      teamformations tf ON t.TeamID = tf.team_id AND tf.session_date BETWEEN '2024-08-
01' AND '2024-08-05'
   LEFT JOIN
      (SELECT formation_id, COUNT(*) AS player_count FROM players GROUP BY
formation_id) p ON tf.formation_id = p.formation_id
   GROUP BY
      l.location_id
   HAVING
      COUNT(tf.session_type = 'Game') >= 3
   ORDER BY
      total_game DESC;
";

$stmt = $conn->prepare($query);
```

```
$stmt->execute();
$result = $stmt->get_result();
$details = $result->fetch_all(MYSQLI_ASSOC);

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Teams Formation Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Teams Formation Report (2024-08-01 to 2024-08-05)</h1>
    <table>
        <thead>
            <tr>
                <th>Location Name</th>
                <th>Total Training Sessions</th>
                <th>Total Players in Training Sessions</th>
                <th>Total Game Sessions</th>
                <th>Total Players in Game Sessions</th>
            </tr>
        </thead>
        <tbody>
```

```
        <?php foreach ($details as $detail): ?>
        <tr>
            <td><?php echo htmlspecialchars($detail['location_name']); ?></td>
            <td><?php echo htmlspecialchars($detail['total_training']); ?></td>
            <td><?php echo htmlspecialchars($detail['total_players_in_training']); ?></td>
            <td><?php echo htmlspecialchars($detail['total_game']); ?></td>
            <td><?php echo htmlspecialchars($detail['total_players_in_game']); ?></td>
        </tr>
        <?php endforeach; ?>
    </tbody>
  </table>
</body>
</html>

<?php

$conn->close();
?>
```

12. Get a report of all active club members who have never been assigned to any formation team session. The list should include the club member's membership number, first name, last name, age, phone number, email and current location name. The results should be displayed sorted in ascending order by location name then by club membership number.

```
<?php

require_once 'database.php';

$query = "
  SELECT
    cm.membership_number,
    cm.first_name,
    cm.last_name,
    TIMESTAMPDIFF(YEAR, cm.date_of_birth, CURDATE()) AS age,
    cm.telephone_number,
    fm.email_address AS email,
    l.name AS current_location_name
  FROM
    ClubMembers cm
  LEFT JOIN
    players p ON cm.member_id = p.club_member_id
  LEFT JOIN
    teamformations tf ON p.formation_id = tf.formation_id
  LEFT JOIN
    Teams t ON tf.team_id = t.TeamID
  LEFT JOIN
  ClubMemberDate cmd ON cm.member_id = cmd.member_id
```

```
    LEFT JOIN
        Locations l ON cmd.location_id = l.location_id
    LEFT JOIN
        FamilyMembers fm ON cm.family_member_id = fm.family_member_id
    WHERE
        cm.active = TRUE
        AND p.club_member_id IS NULL
    ORDER BY
        l.name ASC,
        cm.membership_number ASC;
";

$stmt = $conn->prepare($query);
$stmt->execute();
$result = $stmt->get_result();
$details = $result->fetch_all(MYSQLI_ASSOC);

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Active Club Members Without Assignments Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: lightgrey;
        }
    </style>
</head>
```

```
<body>
   <h1>Active Club Members Without Team Assignments</h1>
   <a href="index.php" class="home-link">Back to Homepage</a>
   <table>
      <thead>
         <tr>
            <th>Membership Number</th>
            <th>First Name</th>
            <th>Last Name</th>
            <th>Age</th>
            <th>Phone Number</th>
            <th>Email</th>
            <th>Current Location Name</th>
         </tr>
      </thead>
      <tbody>
         <?php foreach ($details as $detail): ?>
         <tr>
            <td><?php echo htmlspecialchars($detail['membership_number']); ?></td>
            <td><?php echo htmlspecialchars($detail['first_name']); ?></td>
            <td><?php echo htmlspecialchars($detail['last_name']); ?></td>
            <td><?php echo htmlspecialchars($detail['age']); ?></td>
            <td><?php echo htmlspecialchars($detail['telephone_number']); ?></td>
            <td><?php echo htmlspecialchars($detail['email']); ?></td>
            <td><?php echo htmlspecialchars($detail['current_location_name']); ?></td>
         </tr>
         <?php endforeach; ?>
      </tbody>
   </table>
</body>
</html>

<?php

$conn->close();
?>
```

13. Get a report of all active club members who have only been assigned as goalkeepers in all the formation team sessions they have been assigned to. They must be assigned to at least one formation session as a goalkeeper. They should have never been assigned to any formation session with a role different than goalkeeper. The list should include the club member's membership number, first name, last name, age, phone number, email and current location name. The results should be displayed sorted in ascending order by location name then by club membership number.

```
  <?php
require_once 'database.php';
```

```
$query = "
    SELECT
        cm.membership_number,
        cm.first_name,
        cm.last_name,
        TIMESTAMPDIFF(YEAR, cm.date_of_birth, CURDATE()) AS age,
        cm.telephone_number,
        fm.email_address AS email,
        l.name AS current_location_name
    FROM
        ClubMembers cm
    JOIN
        players p ON cm.member_id = p.club_member_id
    JOIN
        teamformations tf ON p.formation_id = tf.formation_id
    JOIN
        Teams t ON tf.team_id = t.TeamID
    JOIN
        Locations l ON t.location_id = l.location_id
    LEFT JOIN
        players p2 ON cm.member_id = p2.club_member_id AND p2.role != 'Goalkeeper'
    LEFT JOIN
        FamilyMembers fm ON cm.family_member_id = fm.family_member_id
    WHERE
        cm.active = TRUE
        AND p2.club_member_id IS NULL
    GROUP BY
        cm.member_id
    ORDER BY
        l.name ASC,
        cm.membership_number ASC
";

$result = mysqli_query($conn, $query);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Goalkeeper Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
        }
        table {
            width: 100%;
```

```
            border-collapse: collapse;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
        }
        th {
            background-color: lightgrey;
            text-align: left;
        }
        tr:nth-child(even) {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Goalkeeper Report</h1>
    <a href="index.php" class="home-link">Back to Homepage</a>
    <table>
        <thead>
            <tr>
                <th>Membership Number</th>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Age</th>
                <th>Phone Number</th>
                <th>Email</th>
                <th>Current Location</th>
            </tr>
        </thead>
        <tbody>
            <?php while($row = mysqli_fetch_assoc($result)) { ?>
                <tr>
                    <td><?php echo htmlspecialchars($row['membership_number']); ?></td>
                    <td><?php echo htmlspecialchars($row['first_name']); ?></td>
                    <td><?php echo htmlspecialchars($row['last_name']); ?></td>
                    <td><?php echo htmlspecialchars($row['age']); ?></td>
                    <td><?php echo htmlspecialchars($row['telephone_number']); ?></td>
                    <td><?php echo htmlspecialchars($row['email']); ?></td>
                    <td><?php echo htmlspecialchars($row['current_location_name']); ?></td>
                </tr>
            <?php } ?>
        </tbody>
    </table>
</body>
</html>

<?php mysqli_close($conn); ?>
```

14. Get a report of all active club members who have only been assigned at least once to every role throughout all the formation team game sessions. The club member must be assigned to at least one formation game session as a goalkeeper, one as a defender, one as a midfielder, and one as a forward. The list should include the club member's membership number, first name, last name, age, phone number, email and current location name. The results should be displayed sorted in ascending order by location name then by club membership number.

```
   <?php
require_once 'database.php';

$query = "
   SELECT cm.membership_number, cm.first_name, cm.last_name,
TIMESTAMPDIFF(YEAR, cm.date_of_birth, CURDATE()) AS age,
          cm.telephone_number, fm.email_address AS email, l.name AS current_location_name
   FROM ClubMembers cm
   LEFT JOIN FamilyMembers fm ON cm.family_member_id = fm.family_member_id
   LEFT JOIN players p ON cm.member_id = p.club_member_id
   LEFT JOIN teamformations tf ON p.formation_id = tf.formation_id
   LEFT JOIN Teams t ON tf.team_id = t.TeamID
   LEFT JOIN Locations l ON t.location_id = l.location_id

   WHERE cm.active = 1
   GROUP BY cm.member_id
   HAVING SUM(CASE WHEN p.role = 'Goalkeeper' THEN 1 ELSE 0 END) > 0
     AND SUM(CASE WHEN p.role = 'Defender' THEN 1 ELSE 0 END) > 0
     AND SUM(CASE WHEN p.role = 'Midfielder' THEN 1 ELSE 0 END) > 0
     AND SUM(CASE WHEN p.role = 'Forward' THEN 1 ELSE 0 END) > 0
   ORDER BY l.name ASC, cm.membership_number ASC
";

$result = mysqli_query($conn, $query);
?>

<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Complete Role Assignment Report</title>
   <style>
      body {
         font-family: Verdana, sans-serif;
      }
      table {
         width: 100%;
         border-collapse: collapse;
      }
      th, td {
```

```
            border: 1px solid black;
            padding: 8px;
        }
        th {
            background-color: lightgrey;
            text-align: left;
        }
        tr:nth-child(even) {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Complete Role Assignment Report</h1>
    <a href="index.php" class="home-link">Back to Homepage</a>
    <table>
        <thead>
            <tr>
                <th>Membership Number</th>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Age</th>
                <th>Phone Number</th>
                <th>Email</th>
                <th>Current Location</th>
            </tr>
        </thead>
        <tbody>
            <?php while($row = mysqli_fetch_assoc($result)) { ?>
                <tr>
                    <td><?php echo htmlspecialchars($row['membership_number']); ?></td>
                    <td><?php echo htmlspecialchars($row['first_name']); ?></td>
                    <td><?php echo htmlspecialchars($row['last_name']); ?></td>
                    <td><?php echo htmlspecialchars($row['age']); ?></td>
                    <td><?php echo htmlspecialchars($row['telephone_number']); ?></td>
                    <td><?php echo htmlspecialchars($row['email']); ?></td>
                    <td><?php echo htmlspecialchars($row['current_location_name']); ?></td>
                </tr>
            <?php } ?>
        </tbody>
    </table>
</body>
</html>

<?php mysqli_close($conn); ?>
```

15. For a given location, get the list of all family members who have currently active club members associated with them and are also head coaches for the same location. Information includes first name, last name, and phone number of the family member. A family member is

considered to be a head coach if she/he is assigned as a head coach to at least one team formation session in the same location.

```
  <?php
require_once 'database.php';

// Initialize the location name
$location_name = '';

// Check if the form has been submitted
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Get the location name from the form input
    $location_name = $_POST['location_name'];

    $query = "
        SELECT DISTINCT fm.first_name, fm.last_name, fm.telephone_number
        FROM FamilyMembers fm
        JOIN ClubMembers cm ON fm.family_member_id = cm.family_member_id
        JOIN Personnel p ON fm.personnel_id = p.personnel_id
        JOIN Teams t ON fm.personnel_id = t.HeadCoachID
        LEFT JOIN Locations l ON t.location_id = l.location_id
        WHERE l.name = ?
        ORDER BY fm.last_name ASC, fm.first_name ASC
    ";

    $stmt = $conn->prepare($query);
    $stmt->bind_param("s", $location_name);
    $stmt->execute();
    $result = $stmt->get_result();
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Head Coaches Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
        }
        table {
            width: 100%;
            border-collapse: collapse;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
```

```
        }
        th {
            background-color: lightgrey;
            text-align: left;
        }
        tr:nth-child(even) {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Head Coaches Report</h1>
    <a href="index.php" class="home-link">Back to Homepage</a>

    <!-- Form to input the location name -->
    <form method="POST" action="">
        <label for="location_name">Enter Location Name:</label>
        <input type="text" id="location_name" name="location_name" required>
        <input type="submit" value="Generate Report">
    </form>

    <?php if ($_SERVER["REQUEST_METHOD"] == "POST"): ?>
        <h2>Results for Location: <?php echo htmlspecialchars($location_name); ?></h2>
        <table>
            <thead>
                <tr>
                    <th>First Name</th>
                    <th>Last Name</th>
                    <th>Phone Number</th>
                </tr>
            </thead>
            <tbody>
                <?php while ($row = $result->fetch_assoc()): ?>
                    <tr>
                        <td><?php echo htmlspecialchars($row['first_name']); ?></td>
                        <td><?php echo htmlspecialchars($row['last_name']); ?></td>
                        <td><?php echo htmlspecialchars($row['telephone_number']); ?></td>
                    </tr>
                <?php endwhile; ?>
            </tbody>
        </table>
    <?php endif; ?>
</body>
</html>

<?php
if (isset($stmt)) {
    $stmt->close();
}
```

```
mysqli_close($conn);
?>
```

16. Get a report of all active club members who have never lost a game in which they played in. A club member is considered to win a game if she/he has been assigned to a game session and was assigned to the team that has a score higher than the score of the other team. The club member must be assigned to at least one formation game session. The list should include the club member's membership number, first name, last name, age, phone number, email and current location name. The results should be displayed sorted in ascending order by location name then by club membership number.

```
<?php

require_once 'database.php';

$details = [];

// SQL query
$query = "
    SELECT DISTINCT cm.*
FROM ClubMembers cm
WHERE cm.member_id NOT IN (
    SELECT cm.member_id
    FROM ClubMembers cm
    LEFT JOIN players p ON cm.member_id = p.club_member_id
    LEFT JOIN teamformations tf ON p.formation_id = tf.formation_id
    LEFT JOIN opponent o ON tf.formation_id = o.formation_id
    LEFT JOIN teamformations opp_tf ON o.opponent_id = opp_tf.formation_id
    WHERE tf.score < opp_tf.score
)
ORDER BY
    (SELECT l.name FROM Locations l WHERE l.location_id = cmd.locations_id) ASC,
    cm.membership_number ASC;
";

// Prepare and execute the query
$stmt = $conn->prepare($query);
$stmt->execute();
$result = $stmt->get_result();
$details = $result->fetch_all(MYSQLI_ASSOC);

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Active Club Members Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Active Club Members Who Never Lost a Game</h1>
    <table>
        <thead>
            <tr>
                <th>Membership Number</th>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Age</th>
                <th>Phone Number</th>
                <th>Email</th>
                <th>Location</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach ($details as $detail): ?>
            <tr>
                <td><?php echo htmlspecialchars($detail['membership_number']); ?></td>
                <td><?php echo htmlspecialchars($detail['first_name']); ?></td>
                <td><?php echo htmlspecialchars($detail['last_name']); ?></td>
                <td><?php echo htmlspecialchars($detail['age']); ?></td>
                <td><?php echo htmlspecialchars($detail['telephone_number']); ?></td>
                <td><?php echo htmlspecialchars($detail['email_address']); ?></td>
```

```
            <td><?php echo htmlspecialchars($detail['location_name']); ?></td>
        </tr>
        <?php endforeach; ?>
    </tbody>
</table>
</body>
</html>
```

17. Get a report of all the personnels who were president of the club at least once or is currently president of the club. The report should include the president's first name, last name, start date as a president and last date as president. If last date as president is null means that the personnel is the current president of the club. Results should be displayed sorted in ascending order by first name then by last name then by start date as a president.

```
<?php

require_once 'database.php';

$details = [];
$query = "
    SELECT
        p.first_name,
        p.last_name,
        pl.start_date,
        pl.end_date
    FROM
        Personnel p
    left JOIN
        PersonnelLocation pl ON p.personnel_id = pl.personnel_id
    left JOIN
        Locations l ON pl.location_id = l.location_id
    WHERE
        p.role = 'Administrator'
    ORDER BY
        p.first_name ASC,
        p.last_name ASC,
        pl.start_date ASC;
";


$stmt = $conn->prepare($query);
$stmt->execute();
$result = $stmt->get_result();
$details = $result->fetch_all(MYSQLI_ASSOC);

?>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Club Presidents Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Report of Club Presidents</h1>
    <table>
        <thead>
            <tr>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Start Date as President</th>
                <th>Last Date as President</th>
            </tr>
        </thead>
        <tbody>
            <?php foreach ($details as $detail): ?>
            <tr>
                <td><?php echo htmlspecialchars($detail['first_name']); ?></td>
                <td><?php echo htmlspecialchars($detail['last_name']); ?></td>
                <td><?php echo htmlspecialchars($detail['start_date']); ?></td>
                <td><?php echo htmlspecialchars($detail['end_date']); ?></td>
```

```
        </tr>
        <?php endforeach; ?>
    </tbody>
  </table>
</body>
</html>

<?php

$conn->close();
?>
```

18. Get a report of all volunteer personnels who are not family members of any club member. Results should include the volunteer's first name, last name, telephone number, email address, current location name and current role. Results should be displayed sorted in ascending order by location name, then by role, then by first name then by last name.

```
 <?php

require_once 'database.php';

$details = [];
$query = "
   SELECT
      p.first_name,
      p.last_name,
      p.phone_number,
      p.email,
      l.name,
      p.role
   FROM
      Personnel p
   LEFT JOIN
         FamilyMembers fm ON p.personnel_id=fm.personnel_id
   left JOIN
      PersonnelLocation pl ON p.personnel_id = pl.personnel_id
   left JOIN
      Locations l ON pl.location_id = l.location_id
   WHERE
      p.mandate = 'Volunteer'
      AND fm.family_member_id is NULL
         AND pl.end_date is NULL
   ORDER BY
      l.name ASC, p.role ASC, p.first_name ASC, p.last_name ASC;
";
```

```
$stmt = $conn->prepare($query);
$stmt->execute();
$result = $stmt->get_result();
$details = $result->fetch_all(MYSQLI_ASSOC);

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Volunteer Personnel Report</title>
    <style>
        body {
            font-family: Verdana, sans-serif;
            margin: 20px;
            padding: 0;
        }
        h1 {
            color: #333;
        }
        table {
            width: 100%;
            border-collapse: collapse;
            margin: 20px 0;
        }
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: left;
        }
        th {
            background-color: lightgrey;
        }
    </style>
</head>
<body>
    <h1>Report of Volunteer Personnel Not Family Members</h1>
    <table>
        <thead>
            <tr>
                <th>First Name</th>
                <th>Last Name</th>
                <th>Phone Number</th>
                <th>Email Address</th>
                <th>Current Location</th>
                <th>Current Role</th>
            </tr>
```

```
      </thead>
      <tbody>
         <?php foreach ($details as $detail): ?>
         <tr>
            <td><?php echo htmlspecialchars($detail['first_name']); ?></td>
            <td><?php echo htmlspecialchars($detail['last_name']); ?></td>
            <td><?php echo htmlspecialchars($detail['phone_number']); ?></td>
            <td><?php echo htmlspecialchars($detail['email']); ?></td>
            <td><?php echo htmlspecialchars($detail['name']); ?></td>
            <td><?php echo htmlspecialchars($detail['role']); ?></td>
         </tr>
         <?php endforeach; ?>
      </tbody>
   </table>
</body>
</html>

<?php

$conn->close();
?>
```

19. You should show the trigger(s) used by your system. Explain the trigger(s) used and their benefits.

Trigger 1 :

```
/*
If a player is to be assigned to two team formations on the same day, then at least three hours of difference should be set between the start time of the two formations, otherwise the assignment should be rejected”
*/

DELIMITER //

CREATE TRIGGER CheckPlayerFormationConflict
BEFORE INSERT ON players
FOR EACH ROW
BEGIN
   DECLARE conflict_count INT;

   -- check for overlapping sessions
   SELECT COUNT(*)

   INTO conflict_count
```

```
    FROM players AS P
    JOIN teamformations AS TF1 ON P.formation_id = TF1.formation_id
    JOIN teamformations AS TF2 ON NEW.formation_id = TF2.formation_id
    WHERE P.club_member_id = NEW.club_member_id
      AND TF1.session_date = TF2.session_date
    -- check for if the difference in time is less than 3 hours
      AND ABS(TIMESTAMPDIFF(MINUTE, TF1.session_time, TF2.session_time)) < 180;

    IF conflict_count > 0 THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Player cannot be assigned to overlapping formation sessions.';
    END IF;
END //

DELIMITER ;
```

Trigger 2:

```
/*
A new club member must be between 4 and 10 years old at the time of registration.
*/

DELIMITER //

CREATE TRIGGER CheckClubMemberAge
BEFORE INSERT ON ClubMembers
FOR EACH ROW
BEGIN
    DECLARE age INT;

    SET age = TIMESTAMPDIFF(YEAR, NEW.date_of_birth, CURDATE());

    IF age < 4 OR age > 10 THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'Club member must be between 4 and 10 years old at the time
of registration.';
    END IF;
END;
//

DELIMITER ;
```

20. You need to demonstrate the integrity of all the requirements provided in the description. Example, the system should not allow a user to assign a player on two different formation sessions at the same time or on a conflicting time (less than three hours difference).

Testing for Trigger 1:

– Populates the tables with the necessary data for the test case

```
INSERT INTO Locations (name, address, city, province, postal_code, phone_number,
web_address, type, capacity, general_manager_name)
VALUES ('Location A', '123 Main St', 'City A', 'Province A', 'A1A1A1', '1234567890',
'www.example.com', 'Head', 100, 'Manager A');

INSERT INTO ClubMembers (membership_number, first_name, last_name, date_of_birth,
social_security_number, medicare_card_number, telephone_number, address, city, province,
postal_code, email_address, location_id, active)
VALUES (1, 'John', 'Doe', '2000-01-01', '123-45-6789', 'MC123', '1234567890', '123 Main St',
'City A', 'Province A', 'A1A1A1', 'john.doe@example.com', 1, TRUE);

INSERT INTO Personnel (first_name, last_name, date_of_birth, social_security_number,
medicare_card_number, telephone_number, address, city, province, postal_code,
email_address, role, mandate, location_id, start_date, end_date)
VALUES ('Jane', 'Doe', '1980-01-01', '987-65-4321', 'MC987', '0987654321', '456 Elm St', 'City
B', 'Province B', 'B2B2B2', 'jane.doe@example.com', 'Trainer', 'Salary', 1, '2020-01-01', '2025-
01-01');

INSERT INTO Teams (TeamName, location_id, HeadCoachID, Type)
VALUES ('Team A', 1, 1, 'Boys');

INSERT INTO teamformations (team_id, session_date, session_time, session_type, score)
VALUES (1, '2024-07-31', '10:00:00', 'Training', 0),
       (1, '2024-07-31', '13:00:00', 'Training', 0);


INSERT INTO players (formation_id, club_member_id, role)
VALUES (1, 1, 'Forward');

/*
```

This insertion will succeed since we are assigned the same Club Member in two sessions that are 3 hours apart. If we changed the session_time (highlighted in yellow) to have a difference less than 3, then the query will fail

```
INSERT INTO players (formation_id, club_member_id, role) VALUES (2, 1, 'Defender');
```

In the case where it fails, the following error will be displayed :

```
ERROR 1644 (45000) at line 211: Player cannot be assigned to overlapping formation sessions.
```

***/**

Testing for Trigger 2:

– The insertion will fail because the person's birthdate (colored red) is too early.

```
INSERT INTO ClubMembers (membership_number, first_name, last_name, date_of_birth,
social_security_number, medicare_card_number, telephone_number, address, city, province,
```

```
postal_code, email_address, location_id, active)
VALUES (2, 'Jane', 'Smith', '2000-01-01', '987-65-4321', 'MC987', '0987654321', '456 Oak St',
'City B', 'Province B', 'B2B2B2', 'jane.smith@example.com', 1, TRUE);

/*
In the case where it fails, the following error will be displayed :
ERROR 1644 (45000) at line 233: Club member must be between 4 and 10 years old at the time of registration.
*/
```

– The insertion will succeed because the person's birth date (colored green) tells us that he is between 4 and 10 years old.

```
INSERT INTO ClubMembers (membership_number, first_name, last_name, date_of_birth,
social_security_number, medicare_card_number, telephone_number, address, city, province,
postal_code, email_address, location_id, active)
VALUES (2, 'Jane', 'Smith', '2019-01-01', '987-65-4321', 'MC987', '0987654321', '456 Oak St',
'City B', 'Province B', 'B2B2B2', 'jane.smith@example.com', 1, TRUE);
```

21. You need to demonstrate the generation of emails and the logs of the emails produced by the system.

```
<?php
$to = 'zyjy2009@hotmail.com';


$teamName = 'Montreal Youth Group 6';
$sessionDate = '20-August-2024';
$sessionTime = '6:00 PM';
$sessionType = 'training session';
$memberFirstName = 'John';
$memberLastName = 'Doe';
$memberRole = 'goalkeeper';
$coachFirstName = 'Jane';
$coachLastName = 'Smith';
$coachEmail = 'jane.smith@example.com';


$subject = "$teamName $sessionDate $sessionTime $sessionType";


$message = "
Hello $memberFirstName $memberLastName,

This is your upcoming session:
```

```
Date: $sessionDate
Time: $sessionTime
Type: $sessionType
Role: $memberRole

Head Coach: $coachFirstName $coachLastName
Coach Email: $coachEmail

Best,
Youth Soccer Club
";


$headers = 'From: webmaster@example.com' . "\r\n" .
        'Reply-To: webmaster@example.com' . "\r\n" .
        'X-Mailer: PHP/' . phpversion();


if (mail($to, $subject, $message, $headers)) {
    echo 'Email sent successfully.';
} else {
    echo 'Failed to send email.';
}
?>
```

7.SQL Queries in PhP Files

1.

```
INSERT INTO Locations (location_id, name, address, city, province, postal_code,
phone_number, web_address, type, capacity)
 VALUES ($location_id, '$name', '$address', '$city', '$province', '$postal_code',
'$phone_number', '$web_address', '$type', $capacity);

DELETE FROM Locations WHERE location_id = $location_id;
SELECT * FROM Locations;
UPDATE Locations SET name='$name', address='$address', city='$city',
province='$province', postal_code='$postal_code', phone_number='$phone_number',
web_address='$web_address', type='$type', capacity=$capacity WHERE
location_id=$location_id;
```

2.

```
INSERT INTO Personnel (personnel_id, first_name, last_name, date_of_birth, ssn,
medicare_number, phone_number, address, city, province, postal_code, email, role,
```

```
mandate)
		VALUES ($personnel_id, '$first_name', '$last_name', '$date_of_birth', '$ssn',
'$medicare_number', '$phone_number', '$address', '$city', '$province', '$postal_code', '$email',
'$role', '$mandate');
DELETE FROM Personnel WHERE personnel_id = $personnel_id;
SELECT * FROM Personnel;
UPDATE Personnel SET first_name='$first_name', last_name='$last_name',
date_of_birth='$date_of_birth', ssn='$ssn', medicare_number='$medicare_number',
phone_number='$phone_number', address='$address', city='$city', province='$province',
postal_code='$postal_code', email='$email', role='$role', mandate='$mandate' WHERE
personnel_id=$personnel_id;
```

3.

```
INSERT INTO FamilyMembers (family_member_id,first_name, last_name, date_of_birth,
social_security_number, medicare_card_number, telephone_number, address, city, province,
postal_code, personnel_id, email_address, primary_family_member_id)
		VALUES ('$family_member_id','$first_name', '$last_name', '$date_of_birth',
'$social_security_number', '$medicare_card_number', '$telephone_number', '$address',
'$city', '$province', '$postal_code', ".($personnel_id ? $personnel_id : "NULL").",
'$email_address', ".($primary_family_member_id ? $primary_family_member_id : "NULL").");

UPDATE FamilyMembers SET first_name='$first_name', last_name='$last_name',
date_of_birth='$date_of_birth', social_security_number='$social_security_number',
medicare_card_number='$medicare_card_number',
telephone_number='$telephone_number', address='$address', city='$city',
province='$province', postal_code='$postal_code', email_address='$email_address',
primary_family_member_id=".($primary_family_member_id ? $primary_family_member_id :
"NULL")." , personnel_id=".($personnel_id ? $personnel_id : "NULL")." WHERE
family_member_id=$family_member_id";

DELETE FROM FamilyMembers WHERE family_member_id = $family_member_id;

ELECT * FROM FamilyMembers;
```

4.

```
INSERT INTO ClubMembers (member_id, membership_number, first_name, last_name,
date_of_birth, social_security_number, medicare_card_number, telephone_number, address,
city, province, postal_code, family_member_id, active)
		VALUES ($member_id, '$membership_number', '$first_name', '$last_name',
'$date_of_birth', '$social_security_number', '$medicare_card_number', '$telephone_number',
'$address', '$city', '$province', '$postal_code', '$family_member_id', '$active');

DELETE FROM ClubMembers WHERE member_id = $member_id;

SELECT * FROM ClubMembers;

UPDATE ClubMembers SET first_name='$first_name', last_name='$last_name',
```

```
date_of_birth='$date_of_birth',social_security_number='$social_security_number',medicare_c
ard_number='$medicare_card_number, telephone_number='$telephone_number',
address='$address', city='$city', province='$province', postal_code='$postal_code',
family_member_id='$family_member_id', active=$active WHERE member_id=$member_id;
```

5.

```
INSERT INTO teamformations (formation_id, team_id, session_date, session_time,
session_type, score, session_address)
        VALUES ($formation_id, $team_id, '$session_date', '$session_time', '$session_type',
$score, '$session_address');

DELETE FROM teamformations WHERE formation_id = $formation_id;

SELECT * FROM teamformations;

UPDATE teamformations SET team_id='$team_id', session_date='$session_date',
session_time='$session_time', session_type='$session_type', score=$score,
session_address='$session_address' WHERE formation_id=$formation_id;
```

6.

```
INSERT INTO players (formation_id, club_member_id, role)
            VALUES ($formation_id, $club_member_id, '$role');
DELETE FROM players WHERE player_id = $player_id;
SELECT p.player_id,
                p.formation_id,
                p.club_member_id,
                p.role,cm.membership_number,
                cm.first_name,
                cm.last_name,
                cm.date_of_birth,
                cm.social_security_number,
                cm.medicare_card_number,
                cm.family_member_id,
                cm.active
                FROM players p
                left join ClubMembers cm ON p.club_member_id=cm.member_id;
UPDATE ClubMembers
        SET first_name='$first_name', last_name='$last_name',
date_of_birth='$date_of_birth',
            social_security_number='$social_security_number',
medicare_card_number='$medicare_card_number',
            telephone_number='$telephone_number', address='$address', city='$city',
province='$province',
            postal_code='$postal_code', family_member_id='$family_member_id',
active=$active
        WHERE club_member_id=$club_member_id;
```

7.

```
SELECT l.name, l.address, l.city, l.province, l.postal_code, l.phone_number,
l.web_address, l.type, l.capacity, p.first_name AS general_manager_first_name,
p.last_name AS general_manager_last_name, COUNT(cm.member_id) AS
num_club_members
        FROM Locations l
          LEFT JOIN ClubMemberDate cmd ON l.location_id = cmd.location_id
        LEFT JOIN ClubMembers cm ON cmd.member_id = cm.member_id
        LEFT JOIN PersonnelLocation g ON l.location_id = g.location_id
        Left join Personnel p ON p.personnel_id =g.personnel_id
        WHERE p.role = 'Administrator' AND g.end_date IS NULL
        GROUP BY l.location_id, p.first_name, p.last_name
        ORDER BY l.province ASC, l.city ASC
```

8.

```
SELECT fm2.first_name AS sec_first_name,
         fm2.last_name AS sec_last_name,
         fm2.telephone_number AS sec_telephone_number,
         cm.membership_number,
         cm.first_name AS club_first_name,
         cm.last_name AS club_last_name,
         cm.date_of_birth,
         cm.social_security_number,
         cm.medicare_card_number,
         cm.telephone_number AS club_telephone_number,
         cm.address,
         cm.city,
         cm.province,
         cm.postal_code,
         fm.first_name AS primary_first_name,
         fm.last_name AS primary_last_name,
         cmfm.relationship
      FROM FamilyMembers fm
      JOIN ClubMembersFamilyMembers cmfm ON fm.family_member_id =
cmfm.family_member_id
      JOIN ClubMembers cm ON cmfm.club_member_id = cm.member_id
      JOIN FamilyMembers fm2 ON fm.primary_family_member_id = fm2.family_member_id
      WHERE fm2.first_name = ? AND fm2.last_name = ?
```

9.

```
SELECT
                  p.first_name AS coach_first_name,
      p.last_name AS coach_last_name,
```

```
    tf.session_time AS start_time,
    l.name AS address,
    tf.session_type AS nature,
    t.TeamName AS team_name,
    CASE
      WHEN tf.session_date > ? THEN NULL
      ELSE tf.score
    END AS score,
    cm.first_name AS player_first_name,
    cm.last_name AS player_last_name,
    pl.role
FROM teamformations tf
left JOIN Teams t ON tf.team_id = t.TeamID
left JOIN Locations l ON t.location_id = l.location_id
left JOIN Personnel p ON t.HeadCoachID = p.personnel_id
LEFT JOIN players pl ON pl.formation_id = tf.formation_id
LEFT JOIN ClubMembers cm ON pl.club_member_id = cm.member_id
WHERE tf.team_id IN (
    SELECT TeamID
    FROM Teams
    WHERE location_id = ?
  )
  AND tf.session_date = ?
  ORDER BY tf.session_time ASC
```

10.

```
SELECT cm.membership_number, cm.first_name, cm.last_name
      FROM ClubMembers cm
      JOIN (
        SELECT cmd.member_id
        FROM ClubMemberDate cmd
        WHERE cmd.end_date IS NULL OR cmd.end_date <= CURDATE()
        GROUP BY cmd.member_id
        HAVING COUNT(DISTINCT cmd.location_id) >= 4
      ) AS filtered_members ON cm.member_id = filtered_members.member_id
      WHERE cm.active = 1
       AND (
        SELECT TIMESTAMPDIFF(YEAR, MIN(cmd.start_date), CURDATE())
        FROM ClubMemberDate cmd
        WHERE cmd.member_id = cm.member_id
       ) <= 2
      ORDER BY cm.membership_number ASC
```

11.

```
SELECT
    l.name AS location_name,
    COUNT(CASE WHEN tf.session_type = 'Training' THEN 1 END) AS total_training,
    COALESCE(SUM(CASE WHEN tf.session_type = 'Training' THEN player_count ELSE 0
END), 0) AS total_players_in_training,
    COUNT(CASE WHEN tf.session_type = 'Game' THEN 1 END) AS total_game,
    COALESCE(SUM(CASE WHEN tf.session_type = 'Game' THEN player_count ELSE 0
END), 0) AS total_players_in_game
  FROM
    Locations l
  LEFT JOIN
    Teams t ON l.location_id = t.location_id
  LEFT JOIN
    teamformations tf ON t.TeamID = tf.team_id AND tf.session_date BETWEEN '2024-08-
01' AND '2024-08-05'
  LEFT JOIN
    (SELECT formation_id, COUNT(*) AS player_count FROM players GROUP BY
formation_id) p ON tf.formation_id = p.formation_id
  GROUP BY
    l.location_id
  HAVING
    COUNT(tf.session_type = 'Game') >= 3
  ORDER BY
    total_game DESC;
```

12.

```
SELECT
    cm.membership_number,
    cm.first_name,
    cm.last_name,
    TIMESTAMPDIFF(YEAR, cm.date_of_birth, CURDATE()) AS age,
    cm.telephone_number,
    fm.email_address AS email,
    l.name AS current_location_name
  FROM
    ClubMembers cm
  LEFT JOIN
    players p ON cm.member_id = p.club_member_id
  LEFT JOIN
    teamformations tf ON p.formation_id = tf.formation_id
  LEFT JOIN
    Teams t ON tf.team_id = t.TeamID
  LEFT JOIN
      ClubMemberDate cmd ON cm.member_id = cmd.member_id
  LEFT JOIN
    Locations l ON cmd.location_id = l.location_id
```

```
    LEFT JOIN
        FamilyMembers fm ON cm.family_member_id = fm.family_member_id
    WHERE
        cm.active = TRUE
        AND p.club_member_id IS NULL
    ORDER BY
        l.name ASC,
        cm.membership_number ASC;
```

13.

```
SELECT
        cm.membership_number,
        cm.first_name,
        cm.last_name,
        TIMESTAMPDIFF(YEAR, cm.date_of_birth, CURDATE()) AS age,
        cm.telephone_number,
        fm.email_address AS email,
        l.name AS current_location_name
    FROM
        ClubMembers cm
    JOIN
        players p ON cm.member_id = p.club_member_id
    JOIN
        teamformations tf ON p.formation_id = tf.formation_id
    JOIN
        Teams t ON tf.team_id = t.TeamID
    JOIN
        Locations l ON t.location_id = l.location_id
    LEFT JOIN
        players p2 ON cm.member_id = p2.club_member_id AND p2.role != 'Goalkeeper'
    LEFT JOIN
        FamilyMembers fm ON cm.family_member_id = fm.family_member_id
    WHERE
        cm.active = TRUE
        AND p2.club_member_id IS NULL
    GROUP BY
        cm.member_id
    ORDER BY
        l.name ASC,
        cm.membership_number ASC
```

14.

```
SELECT cm.membership_number, cm.first_name, cm.last_name, TIMESTAMPDIFF(YEAR,
cm.date_of_birth, CURDATE()) AS age,
```

```
        cm.telephone_number, fm.email_address AS email, l.name AS current_location_name
    FROM ClubMembers cm
    LEFT JOIN FamilyMembers fm ON cm.family_member_id = fm.family_member_id
    LEFT JOIN players p ON cm.member_id = p.club_member_id
    LEFT JOIN teamformations tf ON p.formation_id = tf.formation_id
    LEFT JOIN Teams t ON tf.team_id = t.TeamID
    LEFT JOIN Locations l ON t.location_id = l.location_id

    WHERE cm.active = 1
    GROUP BY cm.member_id
    HAVING SUM(CASE WHEN p.role = 'Goalkeeper' THEN 1 ELSE 0 END) > 0
      AND SUM(CASE WHEN p.role = 'Defender' THEN 1 ELSE 0 END) > 0
      AND SUM(CASE WHEN p.role = 'Midfielder' THEN 1 ELSE 0 END) > 0
      AND SUM(CASE WHEN p.role = 'Forward' THEN 1 ELSE 0 END) > 0
    ORDER BY l.name ASC, cm.membership_number ASC
```

15.

```
SELECT DISTINCT fm.first_name, fm.last_name, fm.telephone_number
        FROM FamilyMembers fm
        JOIN ClubMembers cm ON fm.family_member_id = cm.family_member_id
        JOIN Personnel p ON fm.personnel_id = p.personnel_id
        JOIN Teams t ON fm.personnel_id = t.HeadCoachID
        LEFT JOIN Locations l ON t.location_id = l.location_id
        WHERE l.name = ?
        ORDER BY fm.last_name ASC, fm.first_name ASC
```

16.

```
WITH MemberGames AS (
    SELECT
        cm.member_id,
        cm.first_name,
        cm.last_name,
        fm.telephone_number,
        fm.email_address,
        l.name AS location_name,
        cm.membership_number,
        cm.date_of_birth,
        COUNT(p.club_member_id) AS game_count,
        SUM(CASE WHEN t.score > t2.score THEN 1 ELSE 0 END) AS games_won
    FROM
        ClubMembers cm
        LEFT JOIN players p ON cm.member_id = p.club_member_id
        LEFT JOIN teamformations t ON p.formation_id = t.formation_id
        LEFT JOIN opponent o ON t.formation_id = o.formation_id
```

```
        LEFT JOIN teamformations t2 ON o.opponent_id = t2.formation_id
        LEFT JOIN FamilyMembers fm ON cm.family_member_id = fm.family_member_id
        LEFT JOIN ClubMemberDate cmd ON cm.member_id = cmd.member_id
        LEFT JOIN Locations l ON cmd.location_id = l.location_id
    WHERE
        cmd.end_date IS NULL
    GROUP BY
        cm.member_id,
        cm.first_name,
        cm.last_name,
        fm.telephone_number,
        fm.email_address,
        l.name,
        cm.membership_number,
        cm.date_of_birth
)
SELECT
    member_id,
    first_name,
    last_name,
    telephone_number,
    email_address,
    location_name,
    membership_number,
    TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE()) AS age,
    total_games,
    total_games_won
FROM (
    SELECT
        member_id,
        first_name,
        last_name,
        telephone_number,
        email_address,
        location_name,
        membership_number,
        date_of_birth,
        SUM(game_count) AS total_games,
        SUM(games_won) AS total_games_won
    FROM
        MemberGames
    GROUP BY
        member_id,
        first_name,
        last_name,
        telephone_number,
        email_address,
        location_name,
        membership_number,
```

```
        date_of_birth
) AS Aggregated
WHERE
    total_games = total_games_won
    AND total_games > 0;
```

17.

```
SELECT
        p.first_name,
        p.last_name,
        pl.start_date,
        pl.end_date
    FROM
        Personnel p
    left JOIN
        PersonnelLocation pl ON p.personnel_id = pl.personnel_id
    left JOIN
        Locations l ON pl.location_id = l.location_id
    WHERE
        p.role = 'Administrator'
    ORDER BY
        p.first_name ASC,
        p.last_name ASC,
        pl.start_date ASC;
```

18.

```
SELECT
        p.first_name,
        p.last_name,
        p.phone_number,
        p.email,
        l.name,
        p.role
    FROM
        Personnel p
    LEFT JOIN
            FamilyMembers fm ON p.personnel_id=fm.personnel_id
    left JOIN
        PersonnelLocation pl ON p.personnel_id = pl.personnel_id
    left JOIN
        Locations l ON pl.location_id = l.location_id
    WHERE
        p.mandate = 'Volunteer'
```

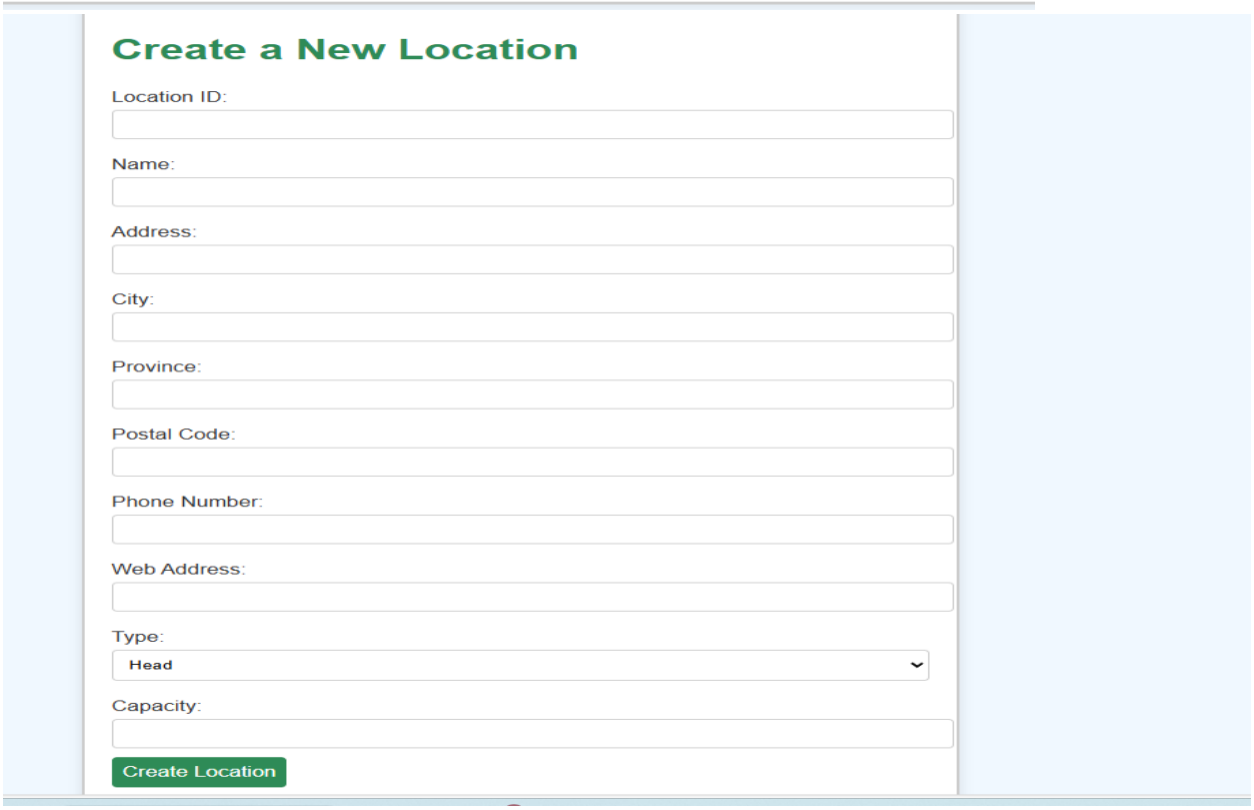
```
    AND fm.family_member_id is NULL
      AND pl.end_date is NULL
ORDER BY
   l.name ASC, p.role ASC, p.first_name ASC, p.last_name ASC;
```

8.GUI Screenshot

Manage Locations

Create Location

View Locations



Locations

Location ID	Name	Address	City	Province	Postal Code	Phone Number	Web Address	Type	Capacity	Actions
1	Downtown Soccer Center	123 Main St	Vancouver	British Columbia	V5K 1A1	604-123-4567	www.downtownsoccer.com	Head	500	Edit | Delete
2	Westside Sports Complex	456 Oak St	Burnaby	British Columbia	V5G 3H2	604-765-4321	www.westsidesports.ca	Branch	300	Edit | Delete
3	East End Arena	789 Maple St	Richmond	British Columbia	V6Y 2L4	604-987-6543	www.eastendarena.com	Branch	250	Edit | Delete
4	North Shore Field	321 Pine St	North Vancouver	British Columbia	V7J 2B3	604-876-5432	www.northshorefield.ca	Branch	350	Edit | Delete
5	Southside Stadium	654 Cedar St	Surrey	British Columbia	V3W 5K6	604-654-3210	www.southsidestadium.com	Branch	400	Edit | Delete
6	Central Park Grounds	987 Birch St	Coquitlam	British Columbia	V3B 6T2	604-321-6789	www.centralparkg.ca	Branch	300	Edit | Delete
7	Lakeview Soccer Field	111 Beach Ave	White Rock	British Columbia	V4B 4A5	604-456-7890	www.lakeviewfield.ca	Branch	250	Edit | Delete
8	Riverbank Arena	222 River Rd	Delta	British Columbia	V4K 3N1	604-234-5678	www.riverbankarena.com	Branch	350	Edit | Delete
9	Mountain Ridge Complex	333 Hilltop Rd	Abbotsford	British Columbia	V2T 6P4	604-876-0987	www.mountainridge.ca	Branch	300	Edit | Delete
10	Valleyview Sports Centre	444 Valley St	Langley	British Columbia	V3A 7X5	604-345-6789	www.valleyviewsports.ca	Branch	400	Edit | Delete

Edit Location

Name:

Downtown Soccer Center

Address:

123 Main St

City:

Vancouver

Province:

British Columbia

Postal Code:

V5K 1A1

Phone Number:

604-123-4567

Web Address:

www.downtownsoccer.com

Type:

Head

Capacity:

500

Update Location

Location Details

Back to Homepage

Name	Address	City	Province	Postal Code	Phone Number	Web Address	Type	Capacity	General Manager Name	Number of Club Members
Mountain Ridge Complex	333 Hilltop Rd	Abbotsford	British Columbia	V2T 6P4	604-876-0987	www.mountainridge.ca	Branch	300	David Brown	0
Westside Sports Complex	456 Oak St	Burnaby	British Columbia	V5G 3H2	604-765-4321	www.westsidesports.ca	Branch	300	Sophia Davis	5
Central Park Grounds	987 Birch St	Coquitlam	British Columbia	V3B 6T2	604-321-6789	www.centralparkg.ca	Branch	300	Logan Lee	1
Riverbank Arena	222 River Rd	Delta	British Columbia	V4K 3N1	604-234-5678	www.riverbankarena.com	Branch	350	Samuel King	0
Valleyview Sports Centre	444 Valley St	Langley	British Columbia	V3A 7X5	604-345-6789	www.valleyviewsports.ca	Branch	400	Jane Doe	0
North Shore Field	321 Pine St	North Vancouver	British Columbia	V7J 2B3	604-876-5432	www.northshorefield.ca	Branch	350	Noah Lopez	0
East End Arena	789 Maple St	Richmond	British Columbia	V6Y 2L4	604-987-6543	www.eastendarena.com	Branch	250	Daniel Martinez	5
Southside Stadium	654 Cedar St	Surrey	British Columbia	V3W 5K6	604-654-3210	www.southsidestadium.com	Branch	400	Benjamin Thomas	2
Downtown Soccer Center	123 Main St	Vancouver	British Columbia	V5K 1A1	604-123-4567	www.downtownsoccer.com	Head	500	John Smith	9
Lakeview Soccer Field	111 Beach Ave	White Rock	British Columbia	V4B 4A5	604-456-7890	www.lakeviewfield.ca	Branch	250	Henry Harris	4

6.

Team Member

player ID	formation ID	club member ID	role	Membership Number	First Name	Last Name	Date of Birth	SSN	MCN	Family Member ID	Active	
1	1	1	Goalkeeper	1001	Alice	Smith	2018-01-01	111-22-3333	ABC123456789	1	1	Edit | Delete
2	1	2	Defender	1002	Bob	Johnson	2017-02-15	222-33-4444	DEF234567890	1	1	Edit | Delete
3	1	3	Midfielder	1003	Charlie	Williams	2018-03-20	333-44-5555	GHI345678901	1	1	Edit | Delete
4	1	4	Forward	1004	David	Brown	2018-04-10	444-55-6666	JKL456789012	2	1	Edit | Delete
5	1	5	Forward	1005	Emily	Jones	2015-05-25	555-66-7777	MNO567890123	2	1	Edit | Delete
6	1	6	Forward	1006	Frank	Miller	2015-06-15	666-77-8888	PQR678901234	3	1	Edit | Delete
7	2	7	Goalkeeper	1007	Grace	Davis	2016-07-30	777-88-9999	STU789012345	3	1	Edit | Delete
8	2	8	Defender	1008	Henry	Garcia	2016-08-20	888-99-0000	VWX890123456	4	1	Edit | Delete
9	2	9	Midfielder	1009	Ivy	Martinez	2019-09-10	999-00-1111	YZA901234567	4	1	Edit | Delete
10	2	10	Forward	1010	Jack	Anderson	2019-10-25	000-11-2222	BCD012345678	5	1	Edit | Delete
11	2	11	Forward	1011	Karen	Thomas	2019-11-05	111-22-3334	EFG123456789	5	1	Edit | Delete
12	2	12	Midfielder	1012	Jenny	Thomas	2019-11-05	111-12-3334	EFG123456780	5	1	Edit | Delete
13	3	1	Goalkeeper	1001	Alice	Smith	2018-01-01	111-22-3333	ABC123456789	1	1	Edit | Delete
14	3	2	Defender	1002	Bob	Johnson	2017-02-15	222-33-4444	DEF234567890	1	1	Edit | Delete
15	3	3	Midfielder	1003	Charlie	Williams	2018-03-20	333-44-	GHI345678901	1	1	Edit |

7.

Team Formations

Location ID: 1

Date (MM-DD-YYYY): 08/01/2024

Search

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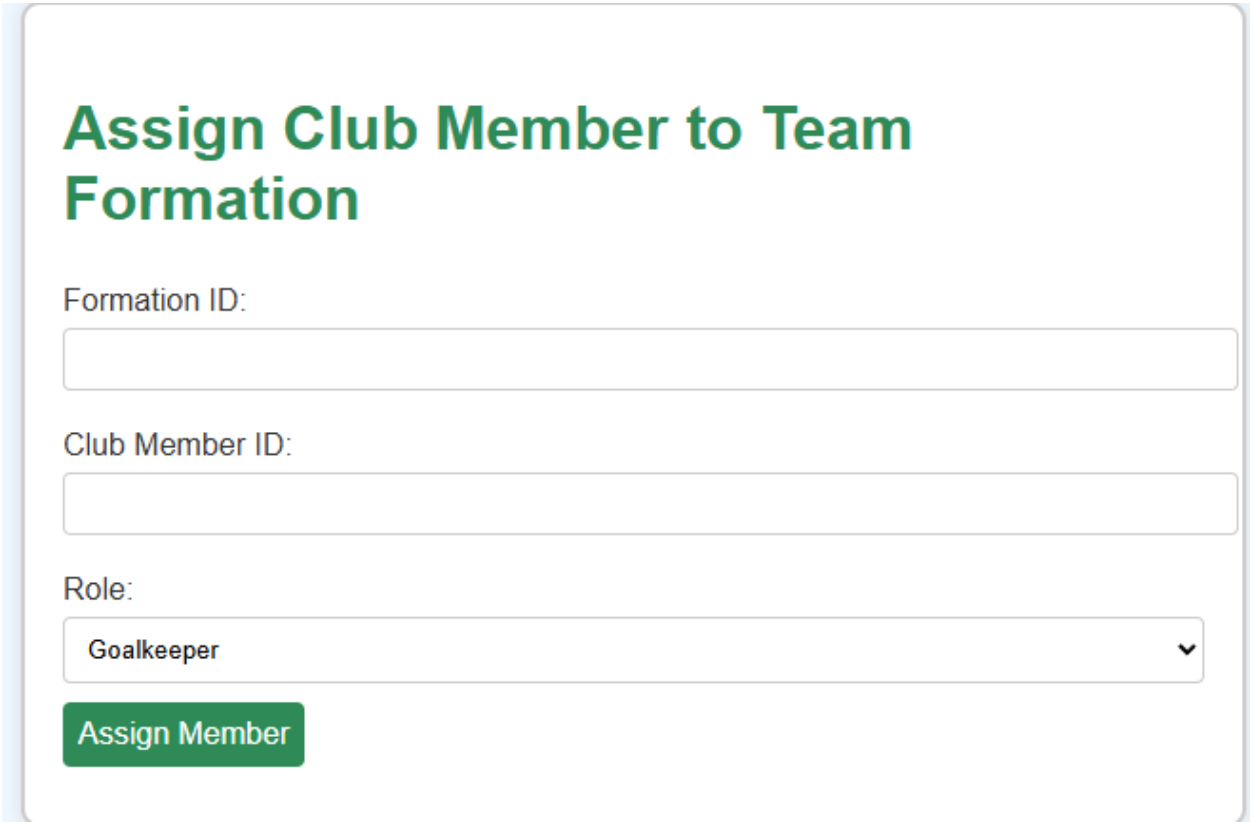
Team Formations

Head Coach First Name	Head Coach Last Name	Start Time	Address	Nature	Team Name	Score	Player First Name	Player Last Name	Player Role
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Alice	Smith	Goalkeeper
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Bob	Johnson	Defender
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Charlie	Williams	Midfielder
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	David	Brown	Forward
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Emily	Jones	Forward
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Frank	Miller	Forward
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Grace	Davis	Goalkeeper
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Henry	Garcia	Defender
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Ivy	Martinez	Midfielder
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Jack	Anderson	Forward
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Karen	Thomas	Forward
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Jenny	Thomas	Midfielder



8.

Family Member Details

First Name: Bob

Last Name: Brown

Search

Family Member Details for Bob Brown

Back to Homepage

Secondary Family Member

First Name: Bob

Last Name: Brown

Telephone Number: 555-1111

Associated Club Members

Club Membership Number	First Name	Last Name	Date of Birth	Social Security Number	Medicare Card Number	Telephone Number	Address	City	Province	Postal Code	Relationship with Secondary Family Member
1001	Alice	Smith	2018-01-01	111-22-3333	ABC123456789	555-1111	123 Main St	Springfield	IL	62701	Other
1002	Bob	Johnson	2017-02-15	222-33-4444	DEF234567890	555-2222	456 Elm St	Springfield	IL	62701	Other
1001	Alice	Smith	2018-01-01	111-22-3333	ABC123456789	555-1111	123 Main St	Springfield	IL	62701	Father
1002	Bob	Johnson	2017-02-15	222-33-4444	DEF234567890	555-2222	456 Elm St	Springfield	IL	62701	Father
1001	Alice	Smith	2018-01-01	111-22-3333	ABC123456789	555-1111	123 Main St	Springfield	IL	62701	GrandMother
1002	Bob	Johnson	2017-02-15	222-33-4444	DEF234567890	555-2222	456 Elm St	Springfield	IL	62701	GrandMother
1001	Alice	Smith	2018-01-01	111-22-3333	ABC123456789	555-1111	123 Main St	Springfield	IL	62701	GrandFather
1002	Bob	Johnson	2017-02-15	222-33-4444	DEF234567890	555-2222	456 Elm St	Springfield	IL	62701	GrandFather

9.

Team Formations

Location ID: 1

Date (MM-DD-YYYY): 08/01/2024

Search

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Team Formations

Head Coach First Name	Head Coach Last Name	Start Time	Address	Nature	Team Name	Score	Player First Name	Player Last Name	Player Role
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Alice	Smith	Goalkeeper
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Bob	Johnson	Defender
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Charlie	Williams	Midfielder
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	David	Brown	Forward
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Emily	Jones	Forward
Bob	Brown	10:00:00	Downtown Soccer Center	Game	Tigers	2	Frank	Miller	Forward
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Grace	Davis	Goalkeeper
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Henry	Garcia	Defender
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Ivy	Martinez	Midfielder
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Jack	Anderson	Forward
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Karen	Thomas	Forward
Emily	Williams	10:00:00	Downtown Soccer Center	Game	Panthers	3	Jenny	Thomas	Midfielder

10.

Active Club Members

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Club Membership Number	First Name	Last Name
1001	Alice	Smith
1002	Bob	Johnson
1003	Charlie	Williams
1004	David	Brown
1005	Emily	Jones

11.

Teams Formation Report (2024-08-01 to 2024-08-05)

Location Name	Total Training Sessions	Total Players in Training Sessions	Total Game Sessions	Total Players in Game Sessions
Downtown Soccer Center	6	2	8	12
East End Arena	0	0	6	12
Westside Sports Complex	4	14	4	12

12.

Active Club Members Without Team Assignments

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Membership Number	First Name	Last Name	Age	Phone Number	Email	Current Location Name
1013	Bide	Ma	6	222-2392	victor.roberts@example.com	Downtown Soccer Center
1014	Peter	Pan	5	333-1234	victor.roberts@example.com	Downtown Soccer Center
1015	Qiuqiu	Tian	6	888-7864	wendy.turner@example.com	Downtown Soccer Center
1016	Aotian	Long	7	345-8789	xander.phillips@example.com	Downtown Soccer Center
1017	RuYan	Liu	6	111-1008	cpbs6677@example.com	Downtown Soccer Center

13.

Goalkeeper Report

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Membership Number	First Name	Last Name	Age	Phone Number	Email	Current Location
1001	Alice	Smith	6	555-1111	bob.brown@example.com	Downtown Soccer Center
1020	XiaoGuai	Shou	5	111-3043	cpbs6677@example.com	Downtown Soccer Center
1021	HongShao	Rou	5	987-7654	cpbs6677@example.com	Downtown Soccer Center
1018	FeiMao	Tui	6	444-9929	cpbs6677@example.com	Westside Sports Complex
1019	AoTe	Man	6	333-8874	cpbs6677@example.com	Westside Sports Complex

14.

Complete Role Assignment Report

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Membership Number	First Name	Last Name	Age	Phone Number	Email	Current Location
1008	Henry	Garcia	7	555-8888	ava.rodriguez@example.com	Downtown Soccer Center
1009	Ivy	Martinez	4	555-9999	ava.rodriguez@example.com	Downtown Soccer Center
1010	Jack	Anderson	4	555-0000	mia.hernandez@example.com	Downtown Soccer Center
1011	Karen	Thomas	4	555-1111	mia.hernandez@example.com	Downtown Soccer Center
1012	Jenny	Thomas	4	555-1111	mia.hernandez@example.com	Downtown Soccer Center

15.

Head Coaches Report

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Enter Location Name: Generate Report

Results for Location: East End Arena

First Name	Last Name	Phone Number
Bob	Brown	555-1111
Olivia	Garcia	604-890-1234
Mia	Hernandez	604-456-7891
Qing	Niao	604-666-5921
Ava	Rodriguez	604-012-3456
Emily	Williams	604-456-7890

16.

Active Club Members Who Never Lost a Game

Membership Number	First Name	Last Name	Age	Phone Number	Email	Location
1007	Grace	Davis	8	604-890-1234	olivia.garcia@example.com	Riverbank Arena
1008	Henry	Garcia	7	604-012-3456	ava.rodriguez@example.com	Riverbank Arena
1009	Ivy	Martinez	4	604-012-3456	ava.rodriguez@example.com	Riverbank Arena
1010	Jack	Anderson	4	604-456-7891	mia.hernandez@example.com	Riverbank Arena
1011	Karen	Thomas	4	604-456-7891	mia.hernandez@example.com	Riverbank Arena
1012	Jenny	Thomas	4	604-456-7891	mia.hernandez@example.com	Riverbank Arena

17.

Report of Club Presidents

First Name	Last Name	Start Date as President	Last Date as President
Benjamin	Thomas	2023-02-28	
Daniel	Martinez	2023-02-20	
David	Brown	2023-02-15	2023-03-14
David	Brown	2024-07-01	
Henry	Harris	2023-05-15	
Jane	Doe	2023-01-01	2023-02-28
Jane	Doe	2023-03-01	
John	Smith	2023-02-01	2024-06-01
John	Smith	2024-07-01	
Logan	Lee	2023-05-01	
Noah	Lopez	2023-02-25	
Samuel	King	2024-06-02	
Sophia	Davis	2023-03-15	

18.

Report of Volunteer Personnel Not Family Members

First Name	Last Name	Phone Number	Email Address	Current Location	Current Role
Lucas	Thompson	604-789-0125	lucas.thompson@example.com	Central Park Grounds	Other
Grace	Perez	604-678-9014	grace.perez@example.com	Central Park Grounds	Trainer
Jerry	Niao	604-478-4415	qq6879@example.com	East End Arena	Trainer
Charlotte	White	604-890-1236	charlotte.white@example.com	Lakeview Soccer Field	Trainer
Zoe	Scott	604-678-9015	zoe.scott@example.com	Mountain Ridge Complex	Trainer
Lily	Gonzalez	604-678-9013	lily.gonzalez@example.com	North Shore Field	Other
Mason	Jackson	604-345-6780	mason.jackson@example.com	Southside Stadium	Other
Amelia	Moore	604-012-3457	amelia.moore@example.com	Southside Stadium	Trainer
Emma	Anderson	604-890-1235	emma.anderson@example.com	Southside Stadium	Trainer
Jane	Doe	604-234-5678	jane.doe@example.com	Valleyview Sports Centre	Administrator
Sophia	Davis	604-678-9012	sophia.davis@example.com	Westside Sports Complex	Administrator