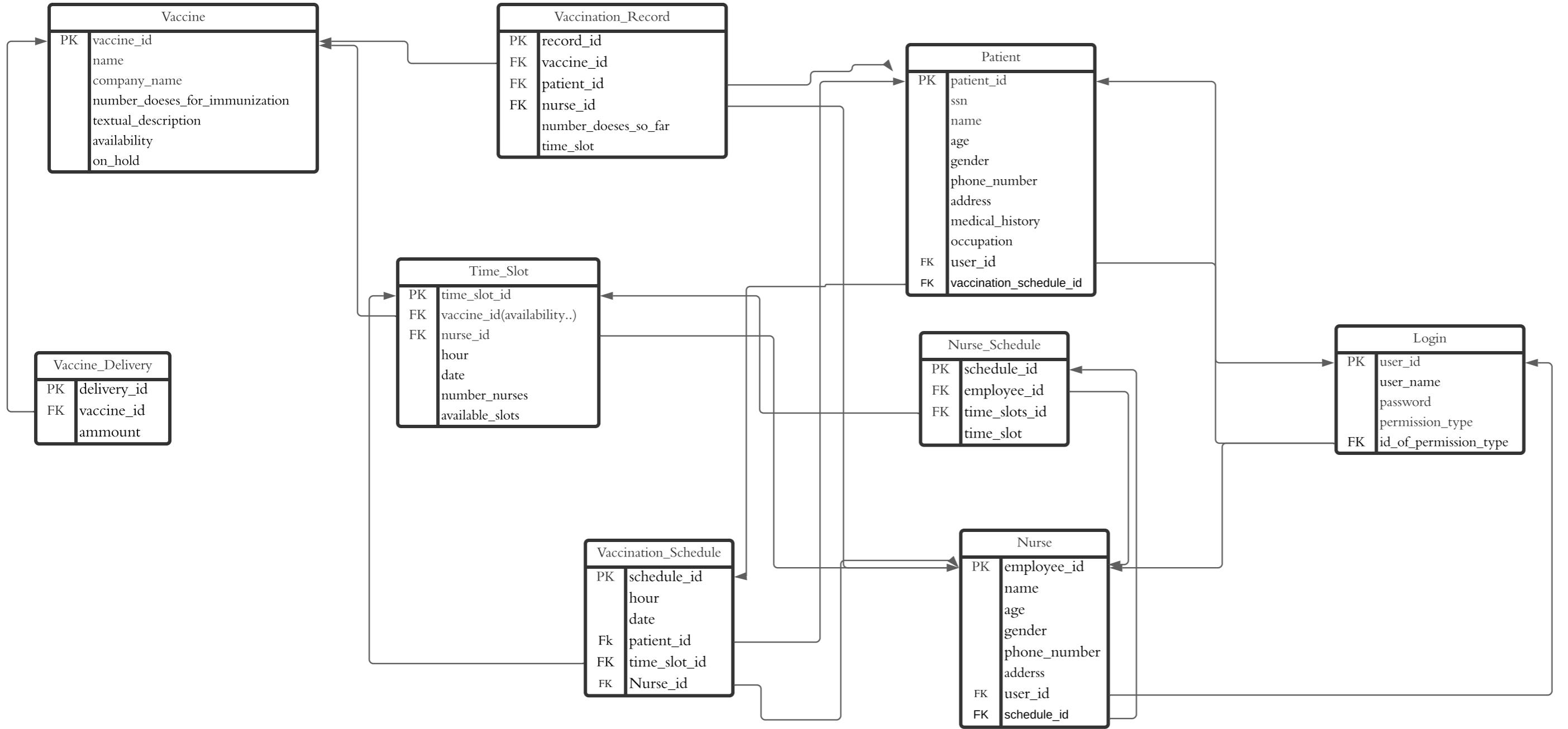


Arturo Vazquez
Vaccine Scheduler
Project Documentation



Functionalities

- **ADMIN**

- o **Login**

- Admin must enter their name, password, and select admin. (Admin info username = Admin, password = admin). This applies to nurse and patients as well.

The screenshot shows a login form with the following fields:

- HOME LOGIN REGISTER
- LOGIN**
- No account? [REGISTER HERE!](#)
- Username: Admin
- Password: (represented by dots)
- Role: Admin
- LOGIN** button

- MySQL query to login:

```
$sql = "SELECT permissionType FROM Login where userName = '".$username."' and userPassword = '".$password."'";
$result = $conn->query($sql);
if ($result->num_rows !== 0) {
    $row = mysqli_fetch_array($result);
    /*User found redirect to admin page */
    if ($row['permissionType'] === 'A' && ($permissionType === 'a' || $permissionType === 'A')) {
        $_SESSION['username'] = $_POST['username'];
        $_SESSION['password'] = $_POST['password'];
        $_SESSION['permissionType'] = $_POST['permissionType'];
        header("Location: ../admin.php");
    }
}
```

- o **Register Nurse**

The screenshot shows a registration form with the following sections:

- REGISTER NURSE**
- Back To ADMIN Options Here
- Note that you may only register a Nurse.*
- Name:**
 - Enter First Name
 - Enter Middle Initial(optional)
 - Enter Last Name
- Personal Info:**
 - Gender:
 - Enter Age:
 - Enter Phone Number eg. 773-111-1111
 - Enter Address e.g. 1234 N Harrison St., Chicago, IL 60607
- Login Info:**
 - Enter Username:
 - Enter Password:
 - Confirm Password:
- REGISTER** button

- MySQL queries to register a nurse:

```

/*Query to insert nurse into the database. Login table*/
$sql = "INSERT INTO Login (userName, userPassword, permissionType)
VALUES ('".$username."','".$password."','".$N'|");
/*Nurse login was created. Now insert the nurse into the nurse table*/
if ($conn->query($sql) === TRUE) {
    /* Add the FK from login to nurse */
    $last_id = mysqli_insert_id($conn);
    $sql = "INSERT INTO Nurse(fName, mi, lName, age, gender, phoneNumber, address, userId)
VALUES ('".$fName."','".$mi."','".$lName."','".$age."','".$gender."','".$phoneNumber."','".$address."','".$last_id."')";
    /* Add the FK from nurse to Login */
    if($conn->query($sql) === TRUE) {
        $last_id = mysqli_insert_id($conn);
        echo $last_id ;
        $sql = "UPDATE Login
                SET idPermissionNurse = '".$last_id."'
                WHERE userName = '".$username."'";
        $conn->query($sql);
        echo "<script>
            alert('Success. Nurse can now login!');
            window.location.href='..../admin.php';
        </script>";
    }
}

```

- ***Update Nurse info***

- To update the nurse info the admin must enter the nurse username, first name, and last name. After that the admin can update any of the input fields as shown in the screenshot below.

Back To ADMIN Options [Here](#)

You must fill the following to update a nurse

Nurse Username

Nurse First Name

Nurse Last Name

*You can update the following: *

First Name

Midde Initial

Last Name

Gender

Age

Username

Password

UPDATE

- MySQL queries to update the nurse info:

```

<?php
$host = "localhost";
$dbname = "nurseDB";
$username = "root";
$password = "password";
$conn = new mysqli($host, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

if (isset($_POST['updateNurse'])) {
    $nurseID = $_POST['nurseID'];
    $firstName = $_POST['firstName'];
    $middleInitial = $_POST['middleInitial'];
    $lastName = $_POST['lastName'];
    $gender = $_POST['gender'];
    $age = $_POST['age'];

    $sql = "UPDATE Nurse
    SET fName = '$firstName',
    mInitial = '$middleInitial',
    lName = '$lastName',
    gender = '$gender',
    age = '$age'
    WHERE nurseID = '$nurseID'";

    if ($conn->query($sql) === TRUE) {
        echo "<script>
        alert('There was an error updating first name initial.');
        window.location.href='..../updateNurse.php';
        </script>";
    } else {
        echo "<script>
        alert('There was an error updating middle initial.');
        window.location.href='..../updateNurse.php';
        </script>";
    }
}

if (isset($_POST['updateLogin'])) {
    $username = $_POST['username'];
    $password = $_POST['password'];
    $nurseID = $_POST['nurseID'];

    $sql = "UPDATE Login
    SET userName = '$username',
    userPassword = '$password'
    WHERE userID = '$nurseID'";

    if ($conn->query($sql) === TRUE) {
        echo "<script>
        alert('There was an error updating login information.');
        window.location.href='..../updateNurse.php';
        </script>";
    } else {
        echo "<script>
        alert('There was an error updating login information.');
        window.location.href='..../updateNurse.php';
        </script>";
    }
}
}

```

- >Delete a nurse

- To delete a nurse the admin must fill all the information in the screenshot below. **Note:** a nurse will only be deleted if the nurse does not have any timeslots to work after the date of deletion.

DELETE NURSE

[Back To ADMIN Options Here](#)

*Enter the following to delete: *

Nurse Username

Nurse First Name

Nurse Last Name

DELETE

- MySQL queries to delete nurse:

```

$row = mysqli_fetch_array($result);
$nurseID = $row['nurseId'];
$userID = $row['userId'];

/*Check that the nurse does not have scheduled times after the day of deletion if so give an error*/
$sql = "SELECT timeSlot
        FROM nurse, nurseschedule, timeslot
        WHERE nurse.nurseId = nurseschedule.nurseID AND
              nurseschedule.timeSlotId = timeslot.timeSlotId
              and nurse.nurseId = '".$nurseID."'";
$result = $conn->query($sql);
$flag = FALSE;

while($row = mysqli_fetch_array($result)) {
    $timeSlotOld = substr($row['timeSlot'], 0,10);
    echo '<p>'.$timeSlotOld.'</p>';
    $timeSlotOldT = strtotime($timeSlotOld, '-1', '/');
    $timeSlotNew = date('Y-m-d', strtotime($timeSlotOldT));

    if (strtotime($timeSlotNew) > time()) {
        echo "<script>
            alert('Nurse has schedule times. Unsuccessful Delete.');
            window.location.href='..../admin.php';
        </script>";
        $flag = TRUE;
    }
}

/*Will only delete nurse if he/she does not have any scheduled timeslots*/
if ($flag != TRUE) {
    /*Query to delete nurse database*/
    $sql = "DELETE FROM Nurse WHERE nurseId = '".$nurseID."'";
    $sql2 = "DELETE FROM Login WHERE userId = '".$userID."'";
    if ($conn->query($sql) === TRUE && $conn->query($sql2) === TRUE) {
        echo "<script>
            alert('Nurse Successfully Deleted.');
            window.location.href='..../admin.php';
        </script>";
    } else {
        echo "<script>
            alert('An Error occurred. Deletion did not occur.');
            window.location.href='..../deleteNurse.php';
        </script>";
    }
}

```

- **Add Vaccine**

- In order to add a vaccine to the repository. The admin must enter all the information shown below in the screenshot.

ADD VACCINE

[Back To Admin Options Here](#)

Vaccine must be new. OTHERWISE: [Here](#)

Vaccine Name(Required)
Company Name(Required)
Immunization Doses(Required)
Textual Description(Required)
Number of doses to Add(Required)

ADD

- MySQL query to add a vaccine:

```

} else {
    $sql = "INSERT INTO Vaccine (name, companyName, numberDosesImm, textualDescription, availability, onHold)
            VALUES('".$vaccineName."','".$companyName."','".$numDosesImm."','".$textualDescription."',
            '".$availability."', 0)";
    $result = $conn->query($sql);
    if ($result->num_rows !== 0) {
        echo "<script>
                alert('Successfully added vaccine to the database.');
                window.location.href='../../addVaccine.php';
            </script>";
    } else {
        echo "<script>
                alert('An error occurred please try again');
                window.location.href='../../addVaccine.php';
            </script>";
    }
}
}

```

- *Update vaccine*

- To update a vaccine the admin must enter the info shown below in the screenshots. Note that the admin can add or delete depending on the total vaccinations on hold.

UPDATE VACCINE

Back To Admin Options [Here](#)

ENTER THE FOLLOWING:

Vaccine Name

Company Name

Number of doses(+ to add - to delete)

UPDATE

- MySQL query to update vaccine:

```
if (($totalSoFar + $availability) < $onHold) {
    echo "<script>
    alert('Unable to update.');
    window.location.href='../../updateVaccine.php';
</script>";
} else {
    $sql = "UPDATE Vaccine SET
    availability = availability + ".$availability."
    WHERE vaccineId = '".$vaccineID."'";
}

if ($conn->query($sql) === TRUE) {
    echo "<script>
    alert('Successfully vaccine doses updated.');
    window.location.href='../../admin.php';
</script>";
} else {
    echo "<script>
    alert('An error has occurred. Please try again.');
    window.location.href='../../addVaccine.php';
</script>";
}
```

- *View nurse info*

- To view a nurse info the admin must enter the information shown below in the screenshots.

VIEW NURSE INFO

Back TO ADMIN Options [Here](#)

ENTER THE FOLLOWING:

Nurse username	Nurse First Name	Nurse Last Name
View		

Nurse INFO

User Id	User Name	Password	Nurse First Name	Middle Initial	Last Name	Age	Gender	Phone Number	Address
6	RhondaDD	RhondaDD	5	Rhonda	D	Dennis	53	F	201-388-5990 993 North Long River Avenue Englewood, NJ 07631

Time Slots

Time Slots:	
04-24-2021 09:00 AM	
04-24-2021 10:00 AM	
04-24-2021 11:00 AM	
04-24-2021 12:00 PM	
04-24-2021 01:00 PM	
04-24-2021 02:00 PM	
04-24-2021 03:00 PM	
04-24-2021 04:00 PM	

- My MySQL query to view a nurse's info:

```

mysql> use login;
        Database selected
sql = "SELECT * FROM Login.Nurse where
        Login.Id=expressionNurse.Nurse.nurseId and
        Login.userName = '".$nurseUserName."' and
        Nurse.firstName = '".$nurseFirstName."' and
        Nurse.lastName = '".$nurseLastName."'";

$result = $conn->query($sql);
if($result->num_rows == 0) {
    echo "<script>
    alert('Nurse does not exist please verify nurse username, first name, and last name');
    window.location.href='viewNurse.php';
    </script>";
} else {
    //Query to insert patient into the databases

    //Print the nurse info/
    echo "
<h2>Nurse INFO:</h2>
<table border>
<tr>
<td>User Id:</td>
<td>User Name:</td>
<td>Password:</td>
<td>Nurse ID:</td>
<td>First Name:</td>
<td>Middle Initial:</td>
<td>Last Name:</td>
<td>Age:</td>
<td>Phone Number:</td>
<td>Address:</td>
</tr>
";
    $nurseId = $row['nurseId'];
    while($row = mysqli_fetch_array($result)) {
        print "<tr>";
        print "<td>". $row['userId'] . "</td>";
        print "<td>". $row['userName'] . "</td>";
        print "<td>". $row['password'] . "</td>";
        print "<td>". $row['nurseId'] . "</td>";
        print "<td>". $row['firstName'] . "</td>";
        print "<td>". $row['middleInitial'] . "</td>";
        print "<td>". $row['lastName'] . "</td>";
        print "<td>". $row['age'] . "</td>";
        print "<td>". $row['phoneNumber'] . "</td>";
        print "<td>". $row['address'] . "</td>";
        print "</tr>";
    }
}

```

```

/*Print the time that nurses are scheduled for*/
$sql = "SELECT * FROM TimeSlot,NurseSchedule
WHERE NurseSchedule.timeSlotId = TimeSlot.timeSlotId and
      NurseSchedule.nurseID = '".$nurseId."'";
$result = $conn->query($sql);

echo "
<h2>Time Slots:</h2>
<table border>
<tr>
</tr>";
while($row = mysqli_fetch_array($result)) {
    print "<tr>";
    print "<td>". $row['timeSlot'] . "</td>";
    print "</tr>";
}
echo "</table>";

```

- *View Patient info*

- To view a patient's information the admin must enter the information shown below in the screenshots

VIEW PATIENT INFO

Back To ADMIN Options [Here](#)

ENTER THE FOLLOWING:

Patient username		
Patient First Name		
Patient Last Name		
View		

PATINET INFO

User Id	User Name	Password	Patient Id	First Name	Middle Initial	Last Name	SSN	Age	Gender	Phone Number	Address	Medical History	Occupation
20	KristyNT	KristyNT	1	Kristy	N	Thomas	393127400	25	F	773-737-4923	5336 S Aberdeen St Chicago, Illinois(60621)		Software Engineer

VACCINATION TIMES

VACCINATION TIME:	
04-24-2021 09:00 AM	

Record History

Vaccine Taken:	Doses Taken:	Times:	Nurse ID:
Pfizer	1	04-24-2021 03:00 PM	2

- MySQL queries to view a nurse's info:

```


$sql = "SELECT * FROM LogIn, Patient
        WHERE LogIn.idPermissionPatient = Patient.PatientId AND
        LogIn.userName = '$patientUserName' AND
        Patient.firstName = '$patientFirstName' AND
        Patient.lastName = '$patientLastName' AND
        Patient.UserName = '$patientUserName' AND
        Patient.Password = '$patientPassword'";

$result = $conn->query($sql);
//Check if the user name is already taken if not then add of the fields are valid/
if ($result->num_rows == 0) {
    echo "<script>
    alert('Patient does not exist please verify patient username, first name, and last name');
    window.location.href='ViewPatient.php';
    </script>";
} else {
    //Query to insert patient into the database/
    /*Print the patient info/
    echo "
<h2>PATINET INFO</h2>
<table border>
<tr>
<td>User Id:</td>
<td>User Name:</td>
<td>Patient Id:</td>
<td>First Name:</td>
<td>Middle Initial:</td>
<td>Last Name:</td>
<td>Gender:</td>
<td>Phone Number:</td>
<td>Address:</td>
<td>Medical History:</td>
<td>Occupation:</td>
</tr>
    while($row = mysqli_fetch_array($result)) {
        print "<tr>";
        print "<td>" . $row['userId'] . "</td>";
        print "<td>" . $row['userName'] . "</td>";
        print "<td>" . $row['patientId'] . "</td>";
        print "<td>" . $row['firstName'] . "</td>";
        print "<td>" . $row['middleInitial'] . "</td>";
        print "<td>" . $row['lastName'] . "</td>";
        print "<td>" . $row['gender'] . "</td>";
        print "<td>" . $row['phoneNum'] . "</td>";
        print "<td>" . $row['address'] . "</td>";
        print "<td>" . $row['medicalHistory'] . "</td>";
        print "<td>" . $row['occupation'] . "</td>";
    }
    echo "</table>";
}
echo "<h2>VACCINATION TIMES </h2>
<table border>
<tr>
<td>VACCINATION TIME:</td>
<td>04-24-2021 09:00 AM</td>
</tr>
</table>";

/*Print the vaccination record/
$conn = "SELECT * FROM VaccinationRecord, Vaccine
        WHERE VaccinationRecord.patientId = '$patientId' AND
        VaccinationRecord.vaccineId = Vaccine.vaccineId";
$result = $conn->query($sql);
echo "
<h2>Record History</h2>
<table border>
<tr>
<td>Vaccine Taken:</td>
<td>Doses Taken:</td>
<td>Times:</td>
<td>Recent Nurse ID:</td>
<td>Doses Needed:</td>
</tr>
    while($row = mysqli_fetch_array($result)) {
        print "<tr>";
        print "<td>" . $row['name'] . "</td>";
        print "<td>" . $row['numberOfDoses'] . "</td>";
        print "<td>" . $row['timeSlot'] . "</td>";
        print "<td>" . $row['nurseId'] . "</td>";
        print "<td>" . ($row['numberOfDoses'] - $row['numberDosesImm']) . "</td>";
    }
    echo "</table>";
}

```

- **Patient**
 - o **Register**
 - For a patient to register he/she must click on the register nav item and fill the info shown below in the screenshot.

The screenshot shows a registration form titled "REGISTER" in large, bold, black and yellow letters at the top. Below the title, there is a note: "ALREADY HAVE AN ACCOUNT? [LOGIN!](#)". A note below that says: "*Note that you may only register if you are a patient.*". The form is divided into sections:

- Name:**
 - Enter First Name
 - Enter Midde Initial(optional)
 - Enter Last Name
- Personal Info:**
 - Gender (dropdown menu)
 - Enter SSN
 - Enter Age
 - Enter Occupation(optional)
 - Enter Phone Number e.g. 773-111-1111
 - Enter Address e.g 1200 W Harrison St, Chicago, IL 60607
- Login Info:** (Followed by a red bullet point)
 - Enter Username
 - Enter Password
 - Confirm Password

A large orange button at the bottom center contains the word "REGISTER".

- MySQL queries to register a patient:

```

/*Query to insert patient into the database*/
$sql = "INSERT INTO Login (userName, userPassword, permissionType)
VALUES ('".$username."','".$password."','".$P"')";

/*Patient successfully created his login. Now insert the patient into the patient table*/
if ($conn->query($sql) === TRUE) {
    /* Add the FK from login to patient */
    $last_id = mysqli_insert_id($conn);
    $sql = "INSERT INTO Patient (ssn, fName, mi, lName, age, gender, phoneNumber, address, occupation, userId)
VALUES ('".$ssn."','".$fName."','".$mi."','".$lName."','".$age."','".$gender."','".$phoneNumber."','".$address."','".$occupation."','".$last_id."')";

    /* Add the FK from patient to Login */
    if($conn->query($sql) === TRUE) {
        $last_id = mysqli_insert_id($conn);
        echo $last_id ;
        $sql = "UPDATE Login
                SET idPermissionPatient = '".$last_id."'
                WHERE userName = '".$username."'";
        $conn->query($sql);
        echo "New record created successfully";
        echo "<script>
            alert('Success. You can now login!');
            window.location.href='..../login.php';
        </script>";
    } else {
        echo "<script>
            alert('Something went wrong please try again');
            window.location.href='..../login.php';
        </script>";
    }
}

```

- *Update Info*

- For a patient to update info he/she can update any field as shown below in the screenshot.

Update Info

Back To PATIENT Options [Here](#)

*You may update one or more of the following:

Name:

First Name

Middle Initial

Last Name

Personal Info:

Gender

Age

Phone Number e.g. 773-111-1111

Address e.g 1200 W Harrison St, Chicago, IL 60607

Occupation

SSN

Login Info:

Username

Password

Update

- MySQL queries to update a patient:

```

/*If Fname is not empty then update it*/
if (!empty($fName)) {
    $sql = "UPDATE Patient
            SET fName = '". $fName ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating First Name.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If Lname is not empty then update it*/
if (!empty($lName)) {
    $sql = "UPDATE Patient
            SET lName = '". $lName ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating Last Name.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If middle initial is not empty then update it*/
if (!empty($mi)) {
    $sql = "UPDATE Patient
            SET mi = '". $mi ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating Middle Initial.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If age is not empty then update it*/
if (!empty($age)) {
    $sql = "UPDATE Patient
            SET age = '". $age ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating age.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If gender is not empty then update it*/
if (!empty($gender)) {
    $sql = "UPDATE Patient
            SET gender = '". $gender ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating gender.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If phoneNumber is not empty then update it*/
if (!empty($phoneNumber)) {
    $sql = "UPDATE Patient
            SET phoneNumber = '". $phoneNumber ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating Phone Number.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If Address is not empty then update it*/
if (!empty($address)) {
    $sql = "UPDATE Patient
            SET address = '". $address ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating Address.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If Occupation is not empty then update it*/
if (!empty($occupation)) {
    $sql = "UPDATE Patient
            SET occupation = '". $occupation ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating occupation.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

/*If SSN is not empty then update it*/
if (!empty($SSN)) {
    $sql = "UPDATE Patient
            SET ssn = '". $SSN ."'"
            WHERE patientId = '". $patientId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating SSN.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
}

if(!empty($passwordToChange)) {
    $sql = "UPDATE Login
            SET password = '". $passwordToChange ."'"
            WHERE userId = '". $userId ."' ";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
                alert('There was an error updating SSN.');
                window.location.href='patientUpdateInfo.php';
            </script>";
    }
    $_SESSION['password'] = $passwordToChange;
}

```

- *Schedule a vaccination time:*

- For a patient to schedule a vaccination he/she must enter the vaccine name that they want to get, the company who made the vaccine and select a time that is available as shown below.

schedule Vaccination

Back To PATIENT Options Here

Enter the Vaccine Name and the Name of the company that makes it to check available times

Enter Vaccine Name

Enter the company who made this vaccine.

View Times

Times Available:

04-24-2021 09:00 AM
04-24-2021 10:00 AM
04-24-2021 11:00 AM
04-24-2021 12:00 PM
04-24-2021 01:00 PM
04-24-2021 02:00 PM
04-24-2021 03:00 PM
04-24-2021 04:00 PM

Paste A Time From Above.

SCHEDULE

- MySQL queries to schedule a vaccination:

```
$Available = 0;
$sql = "SELECT * FROM Vaccine
WHERE name = '".$vaccineName."' and
      companyName = '".$vaccineCompany."' and
      availability > onHold";
$result = $conn->query($sql);
$row = mysqli_fetch_array($result);
$Available = $row['availability'];
$_SESSION['vaccineId'] = $row['vaccineId'];

if ($Available <= 0) {
    echo "<script>
        alert('No Times Available. Please Try Again Later.');
        window.location.href='patientScheduleVaccination.php';
    </script>";
}

$sql = "SELECT * FROM TimeSlot
WHERE availableSlots > 0";
$result = $conn->query($sql);

echo "
<table border>
<h2>Times Available:</h2>
<tr>
</tr>";
while($row = mysqli_fetch_array($result)) {
    print "<tr>";
    print "<td>" . $row['timeSlot'] . "</td>";
    print "</tr>";
}
echo "</table>";
}
```

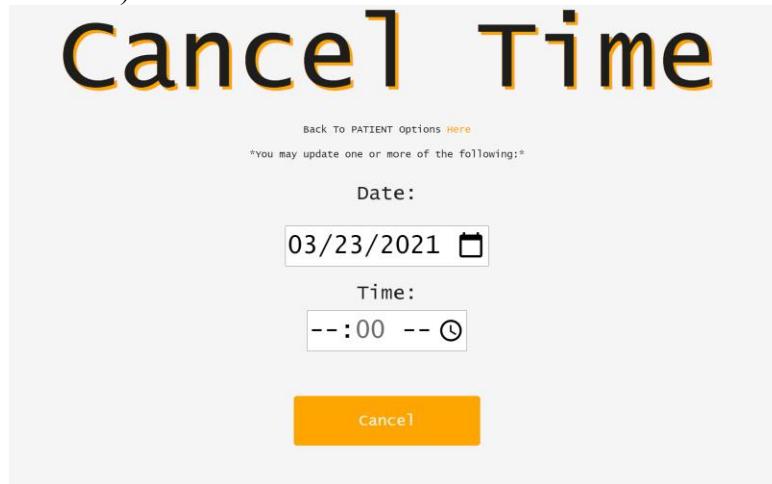
```

/*Create the appointment*/
$sql = "INSERT INTO VaccinationSchedule(patientId, timeSlotId, vaccineId)
VALUES('".$patientId."','".$timeSlotId."','".$vaccineId."')";
if($conn->query($sql) === TRUE) {
    /*SET ON HOLD*/
    $sql = "UPDATE Vaccine
SET onHold = onHold + 1
WHERE vaccineId = '".$vaccineId."'";
$conn->query($sql);
/*Timeslot table set available slot -1*/
$sql = "UPDATE TimeSlot
        SET availableSlots = availableSlots -1
        WHERE timeSlotId = '".$timeSlotId."'";
$conn->query($sql);

```

- ***Cancel Scheduled time***

- For a patient to cancel a scheduled time he/she must enter the info (date and time) as shown below in the screenshot.



- MySQL queries to cancel a time:

```

$result = $conn->query($sql);
$row = mysqli_fetch_array($result);
$patientId = $row['patientId'];

$sql = "SELECT * FROM VaccinationSchedule
        WHERE patientId = '".$patientId."' AND
        timeSlotId = '".$timeSlotId."'";
$result = $conn->query($sql);
if ($result->num_rows === 0) {
    echo "<script>
        alert('There was an error please try again');
        window.location.href='patientCancelTime.php';
    </script>";
}
$row = mysqli_fetch_array($result);
$vaccineId = $row['vaccineId'];
$scheduleId = $row['scheduleId'];

$sql = "UPDATE TimeSlot SET
        availableSlots = availableSlots + 1
        WHERE
        timeSlotId = '".$timeSlotId."'";
$result = $conn->query($sql);
if ($result->num_rows === 0) {
    echo "<script>
        alert('There was an error please try again');
        window.location.href='patientCancelTime.php';
    </script>";
}
$sql = "UPDATE Vaccine
SET onHold = onHold - 1
WHERE vaccineId = '".$vaccineId."'";
$conn->query($sql);

/*delete the vaccinationSchedule*/
$sql = "DELETE FROM VaccinationSchedule WHERE
scheduleId = '".$scheduleId."'";
$conn->query($sql);

```

- ***View info***

- For a patient to view his/her info they must just select View info as shown below.

User Id:	Patient Id:	First Name:	Middle Initial:	Last Name:	SSN:	Age:	Gender:	Phone Number:	Address:	Medical History:	Occupation:
24	5	Nichole	K	Fields	113202530	63	F	312-455-9226	865 Wabash Ave Chicago, Illinois (IL), 60620		chef

VACCINATION TIMES

VACCINATION TIME:	04-24-2021 09:00 AM
-------------------	---------------------

Record History

Vaccine Taken:	Doses Taken:	Times:	Nurse ID:
----------------	--------------	--------	-----------

- MySQL queries to view info:

```
$sql = "SELECT * FROM Patient
        WHERE patientId = '". $patientId . "' ";

$result = $conn->query($sql);
```

```
$sql = "SELECT timeSlot FROM VaccinationSchedule, TimeSlot
        WHERE TimeSlot.timeSlotId = VaccinationSchedule.timeSlotId AND
        VaccinationSchedule.patientId = '". $patientId . "' ";
$result = $conn->query($sql);
```

```
/*Vaccination history*/
$sql = "SELECT * FROM VaccinationRecord, Vaccine
        WHERE VaccinationRecord.patientId = '". $patientId . "' AND
        VaccinationRecord.vaccineId = Vaccine.vaccineId";
$result = $conn->query($sql);
```

- ***Nurse***

- ***Update info***

- For a nurse to update his/her info they can fill the phone number form, the address form or both as shown below in the screenshot.

UPDATE NURSE

Back To NURSE Options [Here](#)

You may update both, just the phone number, or just the address

Enter Phone number eg. 773-111-1111

Enter Address e.g 1200 W Harrison St, Chicago, IL 60607

UPDATE

- MySQL queries to update info:

```
$row = mysqli_fetch_array($result);
$nurseID = $row['nurseId'];

if(!empty($phoneNumber)) {
    $sql = "UPDATE NURSE
    SET phoneNumber = '". $phoneNumber . "'"
    WHERE nurseId = '". $nurseID . "'";

    if($conn->query($sql) !== TRUE) {
        echo "<script>
        alert('There was an error updating please try again.');
        window.location.href='nurseUpdate.php';
        </script>";
    }
}

if (!empty($address)) {
    $sql = "UPDATE NURSE
    SET address = '". $address . "'"
    WHERE nurseId = '". $nurseID . "'";

    if ($conn->query($sql) !== TRUE) {
        echo "<script>
        alert('There was an error updating please try again.');
        window.location.href='nurseUpdate.php';
        </script>";
    }
}
```

- Schedule time

- For a nurse to schedule a time they must fill the time and date as shown below in the screenshot. They will only be able to schedule a particular time if the timeslot has less than 12 nurses and the timeslot is available. Every time a new nurse schedules a time the number of available

vaccination for that timeslot will increase by 10. The only time that the timeslot will not increase by 10 is when a 11th or 12th nurse schedule for the same timeslot to meet the requirement of the 100 max patients per timeslot.

The screenshot shows a web-based application titled "NURSE SCHEDULE TIME". At the top, there's a link "Back To NURSE Options here" and a note: "NOTE that schedules are now based e.g. 10:00-11:00am". Below this, there are fields for "Date:" containing "03/23/2021" and "Time:" containing "--:00 --". At the bottom of the form area are two buttons: "SCHEDULE" and "SEARCH".

- MySQL queries to schedule a time:

```
/*10 or less nurses a time slot keep each nurse to work on 10 patients*/
if ($numNurses < 10) {
    /*Update the nurse + 1 and available lots +10 */
    $newNurseTotal = $numNurses + 1;
    $newAvailableSlots = $availableSlots + 10;
    $sql = "UPDATE TimeSlot SET
        numberOfNurses = '".$newNurseTotal."',
        availableSlots = '".$newAvailableSlots."'
        WHERE
        timeSlot = '".$newTimeSlot."'";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
            alert('There was an error scheduling please try again.');
            window.location.href='../../nurse.php';
        </script>";
    }

    $sql = "INSERT INTO NurseSchedule(nurseID, timeSlotId, numPatients)
        VALUES ('".$nurseID."', '".$timeSlotId."', 10)";

    if ($conn->query($sql) !== TRUE) {
        echo "<script>
            alert('There was an error scheduling please try again.');
            window.location.href='../../nurse.php';
        </script>";
    } else {
        $last_id = mysqli_insert_id($conn);
        $sql = "UPDATE Nurse SET scheduleId = '".$last_id."'
            WHERE nurseId = '".$nurseID."'";
        $conn->query($sql);
        echo "<script>
            alert('Successful Schedule');
            window.location.href='../../nurse.php';
        </script>";
    }
}
```

```
/*11 nurses a time slot modify the number of patients each nurse can attend*/
if ($numNurses == 10) {
    $sql = "SELECT * FROM NurseSchedule
            WHERE timeSlotId = '".$timeSlotId."'";
    $result = mysqli_query($conn, $sql);
    $index = 0;

    while ($row = mysqli_fetch_assoc($result)) {
        if ($index == 8) {
            break;
        }
        $sql = "UPDATE NurseSchedule
                SET numPatients = 9
                WHERE nurseId = '".$row['nurseID']."'";
        $conn->query($sql);
        $index++;
    }

    $newNurseTotal = $numNurses + 1;
    $sql = "UPDATE TimeSlot SET
            number0fNurses = '".$newNurseTotal."'
            WHERE
            timeSlot = '".$newTimeSlot."'";
    $conn->query($sql);
    $sql = "INSERT INTO NurseSchedule(nurseID, timeSlotId, numPatients)
            VALUES ('".$nurseID."', '".$timeSlotId."', 8)";
    $conn->query($sql);
    $last_id = mysqli_insert_id($conn);
    $sql = "UPDATE Nurse SET scheduleId = '".$last_id."'
            WHERE nurseId = '".$nurseID."'";
    $conn->query($sql);

    echo "<script>
            alert('Successful Schedule');
            window.location.href='../../nurse.php';
        </script>";
}
}
```

```

/*12 nurses a time slot modify the number of patients each nurse can attend*/
else if ($numNurses == 11) {
    $sql = "SELECT * FROM NurseSchedule
        WHERE timeSlotId = '".$timeSlotId."'";
    $result = mysqli_query($conn, $sql);
    $index = 0;
    while ($row = mysqli_fetch_assoc($result)) {
        if ($index == 8) {
            break;
        }
        $sql = "UPDATE NurseSchedule
            SET numPatients = 8
            WHERE nurseId = '".$row['nurseID']."' ";
        $conn->query($sql);
        $index++;
    }
    $newNurseTotal = $numNurses + 1;
    $sql = "UPDATE TimeSlot SET
        numberOfNurses = '".$newNurseTotal."'"
        WHERE
        timeSlot = '".$newTimeSlot."'";
    $conn->query($sql);
    $sql = "INSERT INTO NurseSchedule(nurseID, timeSlotId, numPatients)
VALUES ('".$nurseID."', '".$timeSlotId."', 8)";
    $conn->query($sql);
    $last_id = mysqli_insert_id($conn);
    $sql = "UPDATE Nurse SET scheduleId = '".$last_id."'"
        WHERE nurseId = '".$nurseID."'";
    $conn->query($sql);
    echo "<script>
        alert('Successful Schedule');
        window.location.href='../../nurse.php';
    </script>";
}

```

- ***Cancel a time***

The screenshot shows a web form titled "CANCEL A TIME". At the top, there is a link "Back To NURSE Options [Here](#)". Below the title, there is a "Date:" label followed by a date input field containing "03/23/2021" with a calendar icon. Below the date field is a "Time:" label followed by a time input field containing "--:00 --" with a circular arrow icon. At the bottom of the form is a large orange "Cancel" button.

- MySQL queries to cancel a time:

```
if ($numNurses <= 10) {
    /*Update the nurse + 1 and available lots +10 */
    $newNurseTotal = $numNurses - 1;
    $newAvailableSlots = $availableSlots - 10;
    $sql = "UPDATE TimeSlot SET
        numberofNurses = '".$newNurseTotal."',
        availableSlots = '".$newAvailableSlots."'
        WHERE
        timeSlot = '".$newTimeSlot."'";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
            alert('There was an error scheduling please try again');
            window.location.href='nurseCancelTime.php';
        </script>";
    }

    $sql = "DELETE FROM NurseSchedule
        WHERE nurseID = '".$nurseID."' and
        timeSlotId = '".$timeSlotId."' ";

    if ($conn->query($sql) !== TRUE) {
        echo "<script>
            alert('There was an error cancelling please try again.');
            window.location.href='..../nurse.php';
        </script>";
    }
/*DONT NEED scheduleId CAN REMOVE OR KEEP TO KEEP TRACK OF THE MOST
RECENT SCHUEDLE.. SAME WITH SCHUEDULE TIME.
*/
else {
    $last_id = mysqli_insert_id($conn);
    $sql = "UPDATE Nurse SET scheduleId = NULL;
        WHERE nurseId = '".$nurseID."'";
    $conn->query($sql);
    echo "<script>
        alert('Successful Cancellation');
        window.location.href='..../nurse.php';
    </script>";
}
```

```
if ($numNurses <= 10) {
    /*Update the nurse + 1 and available lots +10 */
    $newNurseTotal = $numNurses - 1;
    $newAvailableSlots = $availableSlots - 10;
    $sql = "UPDATE TimeSlot SET
        numberofNurses = '".$newNurseTotal."',
        availableSlots = '".$newAvailableSlots."'
        WHERE
        timeSlot = '".$newTimeSlot."'";
    if ($conn->query($sql) !== TRUE) {
        echo "<script>
            alert('There was an error scheduling please try again');
            window.location.href='nurseCancelTime.php';
        </script>";
    }

    $sql = "DELETE FROM NurseSchedule
        WHERE nurseID = '".$nurseID."' and
        timeSlotId = '".$timeSlotId."' ";

    if ($conn->query($sql) !== TRUE) {
        echo "<script>
            alert('There was an error cancelling please try again.');
            window.location.href='..../nurse.php';
        </script>";
    }
/*DONT NEED scheduleId CAN REMOVE OR KEEP TO KEEP TRACK OF THE MOST
RECENT SCHUEDLE.. SAME WITH SCHUEDULE TIME.
*/
else {
    $last_id = mysqli_insert_id($conn);
    $sql = "UPDATE Nurse SET scheduleId = NULL;
        WHERE nurseId = '".$nurseID."'";
    $conn->query($sql);
    echo "<script>
        alert('Successful Cancellation');
        window.location.href='..../nurse.php';
    </script>";
}
```

```

/*12 nurses a time slot modify the number of patients each nurse can at
else if ($numNurses == 12) {
    $newNurseTotal = $numNurses -1;
    $sql = "UPDATE TimeSlot SET
        numberOfRowsInSection = '". $newNurseTotal ."'"
        WHERE
        timeSlot = '". $newTimeSlot ."'";
    $conn->query($sql);
    $sql = "DELETE FROM NurseSchedule
        WHERE nurseID = '". $nurseID ."' and
        timeSlotId = '". $timeSlotId ."' ";
    $conn->query($sql);

    $last_id = mysqli_insert_id($conn);
    $sql = "UPDATE Nurse SET scheduleId = NULL
        WHERE nurseId = '". $nurseID ."'";
    $conn->query($sql);

    $sql = "SELECT * FROM NurseSchedule
        WHERE timeSlotId = '". $timeSlotId ."' ";
    $result = mysqli_query($conn, $sql);
    $index = 0;

    while ($row = mysqli_fetch_assoc($result)) {
        if ($index == 0) {
            $sql = "UPDATE NurseSchedule
                SET numPatients = 10
                WHERE nurseId = '". $row['nurseID'] ."'";
        }else {
            $sql = "UPDATE NurseSchedule
                SET numPatients = 9
                WHERE nurseId = '". $row['nurseID'] ."'";
        }
        $conn->query($sql);
        $index++;
    }
    echo "<script>
        alert('Successful Schedule'):";
}

```

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- ***View info***

- For a nurse to view his/her info they must just select View info.

Nurse Id	First Name	Middle Initial	Last Name	Age	Gender	Phone Number	Address
1	Suza	S	Jo	20	M	402-349-8200	8088 west Nicolls St. Bangor, ME 0440

Time Slots	
04-24-2021 09:00 AM	04-24-2021 09:00 AM
04-24-2021 10:00 AM	04-24-2021 11:00 AM
04-24-2021 11:00 AM	04-24-2021 12:00 PM
04-24-2021 12:00 PM	04-24-2021 01:00 PM
04-24-2021 01:00 PM	04-24-2021 02:00 PM
04-24-2021 02:00 PM	04-24-2021 03:00 PM
04-24-2021 03:00 PM	04-24-2021 04:00 PM

- MySQL queries to view info:

```

$result = $conn->query($sql);
$row = mysqli_fetch_array($result);
$nurseID = $row['nurseId'];

$sql = "SELECT * FROM NURSE
        WHERE nurseId = '".$nurseID."'";
$result = $conn->query($sql);

```

```

/*Print the time that nurses are scheduled for*/
$sql = "SELECT * FROM TimeSlot,NurseSchedule
        WHERE NurseSchedule.timeSlotId = TimeSlot.timeSlotId and
        NurseSchedule.nurseID = '".$nurseID."'";
$result = $conn->query($sql);

```

- *Vaccination*

- For a nurse to record a vaccination they must fill the info shown below in the screenshot.

RECORD VACCINATION

Back To NURSE Options [Here](#)

Enter the Vaccine ID

Enter Patient ID

Enter Number Of Doses Given

Time: e.g. 03-23-2021 09:00 AM

RECORD

- MySQL queries to record a vaccination:

```

/*Check if there is already a row with the patients id.
If so then just update the row*/
$sql = "SELECT * FROM VaccinationRecord
        WHERE patientId = '".$patientId."'";
$result = $conn->query($sql);
$row = mysqli_fetch_array($result);
if ($result->num_rows === 0) {

    /*Add to the Vaccination Record table*/
    $sql = "INSERT INTO VaccinationRecord(vaccineId, patientId, nurseId, numberDoses, timeSlot)
VALUES('".$vaccineId."', '".$patientId."', '".$nurseID."', '".$doseNumber."', '".$timeSlot."')";

    /*Check if query was successful.*/
    if ($conn->query($sql) !== TRUE) {
        echo "<script>";
        alert('There was an error please try again.');
        window.location.href='../../nurse.php';
        </script>";
    } else {
        /*Update vaccine availability*/
        /*Query was successful now update the onhold and remove one*/
        $sql = "UPDATE Vaccine
                SET onHold = onHold - 1, availability = availability - 1
                WHERE vaccineId = '".$vaccineId."'";
        if ($conn->query($sql) === TRUE) {
            echo "<script>";
            alert('Successful.');
            window.location.href='../../nurse.php';
            </script>";
        } else {
            echo "<script>";
            alert('There was an error please try again.');
            window.location.href='../../nurse.php';
            </script>";
        }
    }
}

```

```

/*THERE is already a vaccination record for that patient just update the number of doses*/
$sql = "UPDATE VaccinationRecord
        SET numberDoses = '".$doseNumber"',
            timeSlot = CONCAT('".$timeSlot."', '\r\n',timeSlot)
        WHERE patientId = '".$patientId."' ";

/*Check if query was successful.*/
if ($conn->query($sql) !== TRUE) {
    echo "<script>";
    alert('There was an error please try again.!!!!!!!!!!!!!!1111');
    window.location.href='../../nurse.php';
    </script>";
} else {
    /*Update vaccine availability*/
    /*Query was successful now update the onhold and remove one*/
    $sql = "UPDATE Vaccine
                SET onHold = onHold - 1, availability = availability - 1
                WHERE vaccineId = '".$vaccineId."'";
    if ($conn->query($sql) === TRUE) {
        echo "<script>";
        alert('Successful.');
        window.location.href='../../nurse.php';
        </script>";
    } else {
        echo "<script>";
        alert('There was an error please try again!!!!');
        window.location.href='../../nurse.php';
        </script>";
    }
}

```