

Voting System Database

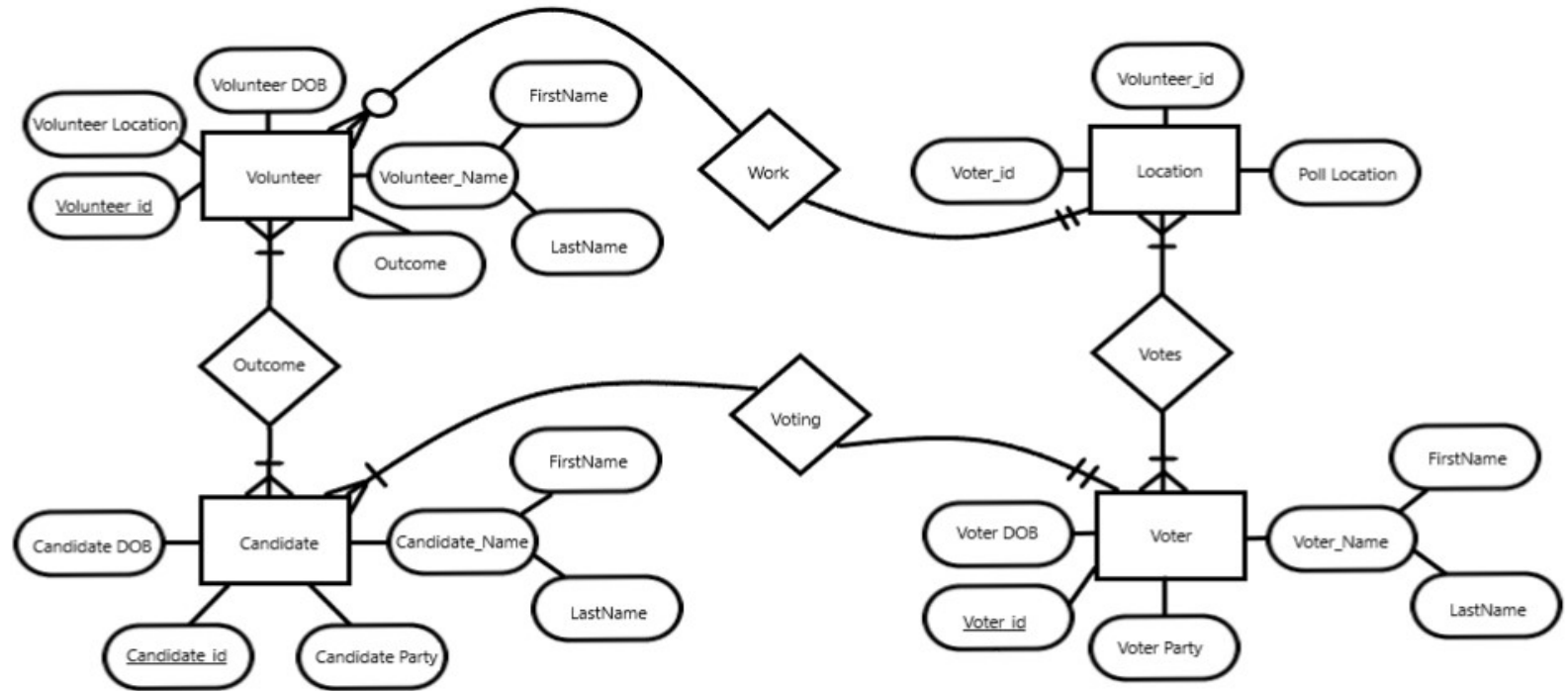
Final Report

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Project Phase 1: ER Diagram



Project Phase 2: Queries

1. Q1 Find all candidate running in the election, their DOB, and party.

SELECT FirstName, LastName, CandidateDOB, CandidateParty FROM Candidate;

2. Q2 Display the voters last name which starts with “s”.

SELECT LastName, VoterDOB, VoterParty FROM Voter WHERE LastName LIKE ‘s%’;

3. Q3 Find all the poll location

SELECT * FROM Locations;

4. Q4 what was outcome for the Volunteer Location.

SELECT * FROM VolunteerLocation;

5. Q5 Find all the volunteer, their location, and age

SELECT FirstName, LastName, VolunteerDOB, VolunteerLocation FROM Volunteer;

6. Q6 What is the DOB for the voters and which location did they go to

SELECT VoterDOB, Locations FROM Voter INNER JOIN Votes

ON Voter.Voter_id = Votes.Voter_id;

7. Q7 Find all voter who are republican.

SELECT FirstName, LastName, VoterParty FROM Voter WHERE VoterParty = "Republican";

8. Q8 Find all voter who are democrat.

SELECT FirstName, LastName, VoterParty FROM Voter WHERE VoterParty = "Democrat";

Project Phase 2: Transactions

1. T1 Delete Voter last name 'Smith'

DELETE FROM Voter WHERE LastName= "Smith";

2. T2 Update voter party 'Cliff Ikin' to Democratic.

UPDATE Voter

SET VoterParty = 'Democrat'

WHERE FirstName = 'Cliff' AND LastName = 'Ikin';

3. T3 Add new Voter into Voter table.

INSERT INTO Voter (Voter_id, FirstName, LastName, VoterDOB, VoterParty)

VALUES(0888, 'Bernie', 'Sanders', to_date ('09/08/1941','DD/MM/YYYY'), 'Democratic')

Project Phase 2: Relational Schema

Volunteer Table				
Volunteer_id	FirstName	LastName	VolunteerDOB	VolunteerLocation
001	Gene	Short	10/28/1996	Marietta
002	Bettye	Vipond	12/03/1990	Kennesaw
003	Kieron	Henry	08/15/1994	Atlanta

Location Table			
Location_id	Voter_id	Volunteer_id	PollLocation
1001	0111	001	Marietta
1002	0222	002	Kennesaw
1003	0333	003	Atlanta
1003	0444	003	Atlanta
1001	0555	001	Marietta
1002	0666	002	Kennesaw
1001	0777	001	Marietta

Volunteer Location	
VolunteerLocation	Outcome
Marietta	Democratic
Kennesaw	Republican
Atlanta	Democratic

Voter Table				
Voter_id	FirstName	LastName	VoterDOB	VoterParty
0111	John	William	04/19/1991	Democrat
0222	Cliff	Ikin	09/25/1988	Republican
0333	Miley	Morin	01/23/1972	Republican
0444	Elfrieda	Wootton	12/25/1990	Democrat
0555	Jonnie	Anderson	03/02/1991	Democrat
0666	Alphonso	Saylor	11/05/1985	Republican
0777	James	Smith	02/29/1999	Democrat

Candidate Table				
Candidate_id	FirstName	LastName	CandidateDOB	CandidateParty
100	Donald	Trump	06/14/1946	Republican
200	Joe	Biden	11/20/1942	Democrat

Votes Table	
Voter	Location
0111	Marietta
0222	Kennesaw
0333	Atlanta
0444	Atlanta
0555	Marietta
0666	Kennesaw
0777	Marietta

Project Phase 2: SQL Code Screenshot

```
drop table Volunteer;
drop table VolunteerLocation;
drop table Candidate;
drop table Locations;
drop table Voter;
drop table Votes;

create table Candidate (
    Candidate_id int primary key,
    FirstName varchar(20),
    LastName varchar(20),
    CandidateDOB date,
```

```

CandidateParty varchar(20),
FOREIGN KEY(Candidate_id) REFERENCES Volunteer(Volunteer_id)
);
insert into Candidate values
(100, 'Donald', 'Trump', to_date ('06/14/1946','DD/MM/YYYY'), 'Republican');
insert into Candidate values
(200,'Joe', 'Biden', to_date ('11/20/1942','DD/MM/YYYY'), 'Democrat');

create table Voter (
Voter_id int primary key,
FirstName varchar(20),
LastName varchar(20),
VoterDOB date,
VoterParty varchar(20) foreign key references Candidate(CandidateParty)
);
insert into Voter values
(0111, 'John', 'William', to_date ('04/19/1991','DD/MM/YYYY'), 'Democrat');
insert into Voter values
(0222, 'Cliff', 'Ikin', to_date ('09/25/1988','DD/MM/YYYY'), 'Republican');
insert into Voter values
(0333, 'Miley', 'Morin', to_date ('01/23/1972','DD/MM/YYYY'), 'Republican');
insert into Voter values
(0444, 'Elfrieda', 'Wootton', to_date ('12/25/1990','DD/MM/YYYY'), 'Democrat'
);
insert into Voter values
(0555, 'Jonnie', 'Anderson', to_date ('03/02/1991','DD/MM/YYYY'), 'Democrat')
;
insert into Voter values
(0666, 'Alphonso', 'Saylor', to_date ('11/05/1985','DD/MM/YYYY'), 'Republican
');
insert into Voter values
(0777, 'James', 'Smith', to_date ('02/29/1999','DD/MM/YYYY'), 'Democrat');

create table Votes (
Voter_id int,
Locations varchar(20),
constraint Votes1 primary key (Voter_id,Locations),
constraint Votes2 foreign key (Voter_id)
references Voter(Voter_id) on delete cascade,
constraint Votes3 foreign key (Locations)
references Locations(PollLocation)on delete cascade
);
insert into Votes values
(0111, 'Marietta');
insert into Votes values

```

```

        (0222, 'Kennesaw');
insert into Votes values
        (0333, 'Atlanta');
insert into Votes values
        (0444, 'Atlanta');
insert into Votes values
        (0555, 'Marietta');
insert into Votes values
        (0666, 'Kennesaw');
insert into Votes values
        (0777, 'Marietta');

create table Volunteer(
        Volunteer_id int primary key,
        FirstName varchar(20),
        LastName varchar(20),
        VolunteerDOB data,
        VolunteerLocation varchar(30) foreign key references VolunteerLocation(Vo
lunteerLocation),
        FOREIGN KEY(Volunteer_id) REFERENCES Candidate(Candidate_id)
);
insert into Volunteer values
        (001, 'Gene', 'Short', to_date('10/28/1996', 'DD/MM/YYYY'), 'Marietta');
insert into Volunteer values
        (002, 'Bettye', 'Vipond', to_date('12/03/1990', 'DD/MM/YYYY'), 'Kennesaw');
insert into Volunteer values
        (003, 'Kieron', 'Henry', to_date('08/15/1994', 'DD/MM/YYYY'), 'Atlanta');

create table VolunteerLocation(
        VolunteerLocation varchar(30) primary key,
        Outcome varchar(15)
);
insert into VolunteerLocation values
        ('Marietta', 'Democrat');
insert into VolunteerLocation values
        ('Kennesaw', 'Republican');
insert into VolunteerLocation values
        ('Atlanta', 'Democrat');

create table Locations(
        Location_id int primary key,
        Voter_id int foreign key references Voter(Voter_id),
        Volunteer_id int foreign key references Volunteer(Volunteer_id),
        Polllocation varchar(30) foreign key references Votes(Location)
);

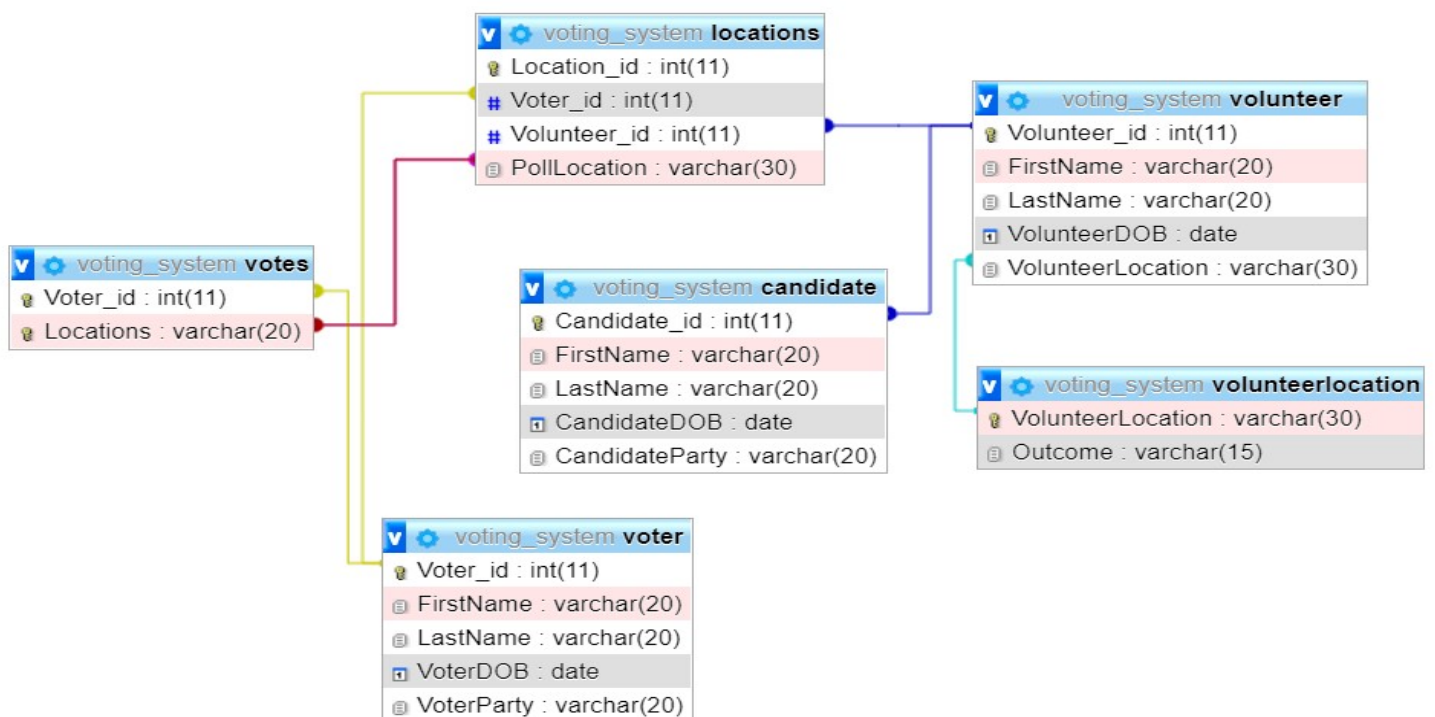
```

```

insert into Locations values
    (1001,0111,001,'Marietta');
insert into Locations values
    (1002,0222,002,'Kennesaw');
insert into Locations values
    (1003,0333,003,'Atlanta');
insert into Locations values
    (1004,0444,003,'Atlanta');
insert into Locations values
    (1005,0555,001,'Marietta');
insert into Locations values
    (1006,0666,002,'Kennesaw');
insert into Locations values
    (1007,0777,001,'Marietta');

```

Project Phase 3: PHPMyAdmin Relational Schema



Project Phase 3: PHP Script Screenshots


Voter Registration

Voter Registration

Voter ID:

First Name:

Last Name:

Voter DOB:
 

Voter Party:

View, Update, and Delete

View

Voter Id	First Name	Last Name	Voter DOB	Voter Party	Action
111	John	William	1991-04-19	Democrat	Delete Update
222	Cliff	Ikin	1988-09-25	Republican	Delete Update
333	Miley	Morin	1972-01-23	Republican	Delete Update
444	Elfrieda	Wootton	1990-12-25	Democrat	Delete Update
555	Jonnie	Anderson	1991-03-02	Democrat	Delete Update
666	Alphonso	Saylor	1985-11-05	Republican	Delete Update
777	James	Smith	1998-01-15	Democrat	Delete Update
888	Jim	Johnson	2008-11-21	Democrat	Delete Update
999	Oliver	Scott	1995-04-12	Republican	Delete Update
1199	Benjamin	Sullivan	1994-11-16	Republican	Delete Update

Update Voter Data

Update Voter Date

Display Queries

Queries

Q1: Find all candidate running in the election, first name, last name, DOB, and party.

First Name	Last Name	Candidate DOB	Candidate Party
Donald	Trump	1946-06-14	Republican
Joe	Biden	1942-11-20	Democrate

Q2: Display the voters last name which starts with “S”.

Last Name	Voter DOB	Voter Party
Saylor	1985-11-05	Republican
Smith	1998-01-15	Democrat
Scott	1995-04-12	Republican
Sullivan	1994-11-16	Republican

Q3: Find all the poll location.

Location Id	Voter Id	Volunteer Id	Poll Location
1001	111	100	Marietta
1002	222	200	Kennesaw
1003	333	300	Atlanta
1004	444	300	Atlanta
1005	555	100	Marietta
1006	666	200	Kennesaw
1007	777	100	Marietta

Q4: What was outcome for the Volunteer Location.

Volunteer Location	Outcome
Atlanta	Democrat
Marietta	Democrat
Kennesaw	Republican

Q5: Find all the volunteer, first name, last name, location, and DOB.

First Name	Last Name	Volunteer DOB	Volunteer Location
Gene	Short	1996-10-28	Marietta
Bettye	Vipond	1990-12-03	Kennesaw
Kieron	Henry	1994-08-15	Atlanta

Q6: What is the DOB and last name for the voters and which location did they go to.

Last Name	Voter DOB	Locations
William	1991-04-19	Marietta
Ikin	1988-09-25	Kennesaw
Morin	1972-01-23	Atlanta
Wootton	1990-12-25	Atlanta
Anderson	1991-03-02	Marietta
Saylor	1985-11-05	Kennesaw
Smith	1998-01-15	Marietta

Q7: Find all voter who are republican.

First Name	Last Name	Voter Party
Cliff	Ikin	Republican
Miley	Morin	Republican
Alphonso	Saylor	Republican
Oliver	Scott	Republican
Benjamin	Sullivan	Republican

Q8: Find all voter who are democrat.

First Name	Last Name	Voter Party
John	William	Democrat
Elfrieda	Wootton	Democrat
Jonnie	Anderson	Democrat
James	Smith	Democrat
Jim	Johnson	Democrat

Project Phase 3: PHPMyAdmin SQL Code Screenshot

```
-- phpMyAdmin SQL Dump
-- version 5.0.3
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Nov 17, 2020 at 01:11 AM
-- Server version: 10.4.14-MariaDB
-- PHP Version: 7.4.11
--
-- Database: `voting_system`
--
CREATE DATABASE IF NOT EXISTS `voting_system` DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci;
USE `voting_system`;
--
-- Table structure for table `candidate`
--
DROP TABLE IF EXISTS `candidate`;
CREATE TABLE `candidate` (
  `Candidate_id` int(11) NOT NULL,
  `FirstName` varchar(20) NOT NULL,
  `LastName` varchar(20) NOT NULL,
  `CandidateDOB` date NOT NULL,
```

```

    `CandidateParty` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
--
-- RELATIONSHIPS FOR TABLE `candidate`:
--   `Candidate_id`
--     `volunteer` -> `Volunteer_id`
--
--
-- Dumping data for table `candidate`
--
INSERT INTO `candidate` (`Candidate_id`, `FirstName`, `LastName`, `CandidateDOB`,
`CandidateParty`) VALUES
(100, 'Donald', 'Trump', '1946-06-14', 'Republican'),
(200, 'Joe', 'Biden', '1942-11-20', 'Democrate');
-- -----
--
-- Table structure for table `locations`
--
DROP TABLE IF EXISTS `locations`;
CREATE TABLE `locations` (
  `Location_id` int(11) NOT NULL,
  `Voter_id` int(11) NOT NULL,
  `Volunteer_id` int(11) NOT NULL,
  `PollLocation` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
--
-- RELATIONSHIPS FOR TABLE `locations`:
--   `Voter_id`
--     `voter` -> `Voter_id`
--   `Volunteer_id`
--     `volunteer` -> `Volunteer_id`
--   `PollLocation`
--     `votes` -> `Locations`
--
--
-- Dumping data for table `locations`
--
INSERT INTO `locations` (`Location_id`, `Voter_id`, `Volunteer_id`, `PollLocation`
`) VALUES
(1001, 111, 100, 'Marietta'),
(1002, 222, 200, 'Kennesaw'),
(1003, 333, 300, 'Atlanta'),
(1004, 444, 300, 'Atlanta'),
(1005, 555, 100, 'Marietta'),
(1006, 666, 200, 'Kennesaw'),

```

```

(1007, 777, 100, 'Marietta');
-----
--
-- Table structure for table `volunteer`
--
DROP TABLE IF EXISTS `volunteer`;
CREATE TABLE `volunteer` (
  `Volunteer_id` int(11) NOT NULL,
  `FirstName` varchar(20) NOT NULL,
  `LastName` varchar(20) NOT NULL,
  `VolunteerDOB` date NOT NULL,
  `VolunteerLocation` varchar(30) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
--
-- RELATIONSHIPS FOR TABLE `volunteer`:
--   `VolunteerLocation`
--     `volunteerlocation` -> `VolunteerLocation`
--
--
-- Dumping data for table `volunteer`
--
INSERT INTO `volunteer` (`Volunteer_id`, `FirstName`, `LastName`, `VolunteerDOB`,
  `VolunteerLocation`) VALUES
(100, 'Gene', 'Short', '1996-10-28', 'Marietta'),
(200, 'Bettye', 'Vipond', '1990-12-03', 'Kennesaw'),
(300, 'Kieron', 'Henry', '1994-08-15', 'Atlanta');
-----
--
-- Table structure for table `volunteerlocation`
--
DROP TABLE IF EXISTS `volunteerlocation`;
CREATE TABLE `volunteerlocation` (
  `VolunteerLocation` varchar(30) NOT NULL,
  `Outcome` varchar(15) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
--
-- RELATIONSHIPS FOR TABLE `volunteerlocation`:
--
--
-- Dumping data for table `volunteerlocation`
--
INSERT INTO `volunteerlocation` (`VolunteerLocation`, `Outcome`) VALUES
('Atlanta', 'Democrat'),
('Marietta', 'Democrat'),
('Kennesaw', 'Republican');

```

```

-- -----
--
-- Table structure for table `voter`
--
DROP TABLE IF EXISTS `voter`;
CREATE TABLE `voter` (
  `Voter_id` int(11) NOT NULL,
  `FirstName` varchar(20) NOT NULL,
  `LastName` varchar(20) NOT NULL,
  `VoterDOB` date NOT NULL,
  `VoterParty` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
--
-- RELATIONSHIPS FOR TABLE `voter`:
--
--
-- Dumping data for table `voter`
--
INSERT INTO `voter` (`Voter_id`, `FirstName`, `LastName`, `VoterDOB`, `VoterParty`
) VALUES
(111, 'John', 'William', '1991-04-19', 'Democrat'),
(222, 'Cliff', 'Ikin', '1988-09-25', 'Republican'),
(333, 'Miley', 'Morin', '1972-01-23', 'Republican'),
(444, 'Elfrieda', 'Wootton', '1990-12-25', 'Democrat'),
(555, 'Jonnie', 'Anderson', '1991-03-02', 'Democrat'),
(666, 'Alphonso', 'Saylor', '1985-11-05', 'Republican'),
(777, 'James', 'Smith', '1998-01-15', 'Democrat'),
(888, 'Jim', 'Johnson', '2008-11-21', 'Democrat'),
(999, 'Oliver', 'Scott', '1995-04-12', 'Republican'),
(1199, 'Benjamin', 'Sullivan', '1994-11-16', 'Republican');
-- -----
--
-- Table structure for table `votes`
--
DROP TABLE IF EXISTS `votes`;
CREATE TABLE `votes` (
  `Voter_id` int(11) NOT NULL,
  `Locations` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
--
-- RELATIONSHIPS FOR TABLE `votes`:
--
-- `Voter_id`
--      `voter` -> `Voter_id`
--
-- `Locations`
--      `locations` -> `PollLocation`

```

```

--
--
-- Dumping data for table `votes`
--
INSERT INTO `votes` (`Voter_id`, `Locations`) VALUES
(111, 'Marietta'),
(222, 'Kennesaw'),
(333, 'Atlanta'),
(444, 'Atlanta'),
(555, 'Marietta'),
(666, 'Kennesaw'),
(777, 'Marietta');
--
-- Indexes for dumped tables
--
--
-- Indexes for table `candidate`
--
ALTER TABLE `candidate`
  ADD PRIMARY KEY (`Candidate_id`);
--
-- Indexes for table `locations`
--
ALTER TABLE `locations`
  ADD PRIMARY KEY (`Location_id`),
  ADD KEY `Voter_id` (`Voter_id`),
  ADD KEY `Volunteer_id` (`Volunteer_id`),
  ADD KEY `PollLocation` (`PollLocation`);
--
-- Indexes for table `volunteer`
--
ALTER TABLE `volunteer`
  ADD PRIMARY KEY (`Volunteer_id`),
  ADD KEY `VolunteerLocation` (`VolunteerLocation`);
--
-- Indexes for table `volunteerlocation`
--
ALTER TABLE `volunteerlocation`
  ADD PRIMARY KEY (`VolunteerLocation`),
  ADD KEY `Outcome` (`Outcome`);
--
-- Indexes for table `voter`
--
ALTER TABLE `voter`
  ADD PRIMARY KEY (`Voter_id`),

```



```

    ADD KEY `VoterParty` (`VoterParty`);
--
-- Indexes for table `votes`
--
ALTER TABLE `votes`
  ADD PRIMARY KEY (`Voter_id`,`Locations`),
  ADD KEY `Locations` (`Locations`);
--
-- Constraints for dumped tables
--
-- Constraints for table `candidate`
--
ALTER TABLE `candidate`
  ADD CONSTRAINT `candidate_ibfk_1` FOREIGN KEY (`Candidate_id`) REFERENCES `volunteer` (`Volunteer_id`) ON DELETE NO ACTION ON UPDATE NO ACTION;
--
-- Constraints for table `locations`
--
ALTER TABLE `locations`
  ADD CONSTRAINT `locations_ibfk_1` FOREIGN KEY (`Voter_id`) REFERENCES `voter` (`Voter_id`) ON DELETE CASCADE ON UPDATE CASCADE,
  ADD CONSTRAINT `locations_ibfk_2` FOREIGN KEY (`Volunteer_id`) REFERENCES `volunteer` (`Volunteer_id`) ON DELETE CASCADE ON UPDATE CASCADE,
  ADD CONSTRAINT `locations_ibfk_3` FOREIGN KEY (`PollLocation`) REFERENCES `votes` (`Locations`) ON DELETE CASCADE ON UPDATE CASCADE;
--
-- Constraints for table `volunteer`
--
ALTER TABLE `volunteer`
  ADD CONSTRAINT `volunteer_ibfk_1` FOREIGN KEY (`VolunteerLocation`) REFERENCES `volunteerlocation` (`VolunteerLocation`) ON DELETE CASCADE ON UPDATE CASCADE;
--
-- Constraints for table `votes`
--
ALTER TABLE `votes`
  ADD CONSTRAINT `votes_ibfk_1` FOREIGN KEY (`Voter_id`) REFERENCES `voter` (`Voter_id`) ON DELETE CASCADE ON UPDATE CASCADE,
  ADD CONSTRAINT `votes_ibfk_2` FOREIGN KEY (`Locations`) REFERENCES `locations` (`PollLocation`) ON DELETE CASCADE ON UPDATE CASCADE;
SET FOREIGN_KEY_CHECKS=1;
COMMIT;

```

Project Phase 3: PHP Script Source Code Screenshots

Database PHP File

```
<?php
$servername='localhost';
$username='root';
$password='';
$dbname = "voting_system";
$conn=mysqli_connect($servername,$username,$password,"$dbname");
if(!$conn)
{
    die('Could not Connect My Sql:' .mysql_error());
}
?>
```

Insert PHP File

```
<!DOCTYPE html>
<html>
<head>
<title>Voter Registration</title>
</head>
<body>
<h1> Voter Registration</h1>
    <form method="post" action="process.php">
        Voter ID:<br>
        <input type="int" name="Voter_id">
        <br><br>
        First Name:<br>
        <input type="text" name="FirstName">
        <br><br>
        Last Name:<br>
        <input type="text" name="LastName">
        <br><br>
        Voter DOB:<br>
        <input type="date" name="VoterDOB">
        <br><br>
        Voter Party:<br>
        <input type="text" name="VoterParty">
        <br><br>
```

```

        <input type="submit" name="save" value="Submit">
        <input type="reset" onclick="return confirm('Do you really want to reset?
    ')" />
    </form>
</body>
</html>

```

Insert Process PHP File

```

<?php

include_once 'database.php';

if(isset($_POST['save']))
{
    $Voter_id = $_POST['Voter_id'];
    $FirstName = $_POST['FirstName'];
    $LastName = $_POST['LastName'];
    $VoterDOB= $_POST['VoterDOB'];
    $VoterParty= $_POST['VoterParty'];
    $sql = "INSERT INTO voter(Voter_id,FirstName,LastName,VoterDOB,VoterParty)
VALUES ('$Voter_id','$FirstName','$LastName', '$VoterDOB', '$VoterParty')";
    $query_run = mysqli_query($conn, $sql);

    if($query_run)
    {
        echo '<script type="text/javascript"> alert("New Record Added!")
</script>';
    }
    else
    {
        echo '<script type="text/javascript"> alert("No New Record Added!")
</script>';
    }
    mysqli_close($conn);
}

?>

```

View PHP File

```
<?php
include_once 'database.php';
$result = mysqli_query($conn,"SELECT * FROM voter");
?>
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
<title>View Voter Data</title>
</head>
<body>
<h1> View</h1>
<table>
    <tr>
        <th>Voter Id</th>
        <th>First Name</th>
        <th>Last Name</th>
        <th>Voter DOB</th>
        <th>Voter Party</th>
        <th>Action</th>
    </tr>
    <?php
    $i=0;
    while($row = mysqli_fetch_array($result)) {
        ?>
        <tr class="<?php if(isset($classname)) echo $classname;?>">
            <td><?php echo $row["Voter_id"]; ?></td>
            <td><?php echo $row["FirstName"]; ?></td>
            <td><?php echo $row["LastName"]; ?></td>
            <td><?php echo $row["VoterDOB"]; ?></td>
            <td><?php echo $row["VoterParty"]; ?></td>
            <td><a href="delete_process.php?Voter_id=<?php echo $row["Voter_id"]; ?>">Delete<
/a>|<a href="update_process.php?Voter_id=<?php echo $row["Voter_id"]; ?>">Update
/a></td>
        </tr>
        <?php
        $i++;
    }
    ?>
</table>
</body>
</html>
```

Update Process PHP File

```
<!DOCTYPE html>
<html>
<head>
<title> Update Voter Table </title>
</head>
<body>
    <h1>Update Voter Date</h1>
    <form action="" method="POST">
        <input type="text" name="Voter_id" placeholder="Enter Voter ID"/>
        <br><br>
        <input type="text" name="FirstName" placeholder="Enter Voter First Name"/>
        <br><br>
        <input type="text" name="LastName" placeholder="Enter Voter Last Name"/>
        <br><br>
        <input type="date" name="VoterDOB" placeholder="Enter Voter DOB"/>
        <br><br>
        <input type="text" name="VoterParty" placeholder="Enter Voter Party"/>
        <br><br>
        <input type="submit" name="update" placeholder="Update"/>
    </body>
</html>
<?php
include_once 'database.php';

if(isset($_POST['update']))
{
    $Voter_id = $_POST['Voter_id'];
    $query = "UPDATE voter SET FirstName='".$_POST[FirstName]',
    LastName='".$_POST[LastName]', VoterDOB='".$_POST[VoterDOB]',
    VoterParty='".$_POST[VoterParty]' WHERE Voter_id='".$_POST[Voter_id]' ";
    $query_run = mysqli_query($conn,$query);

    if($query_run)
    {
        echo '<script type="text/javascript"> alert("Data Updated!") </script>';
    }
    else
    {
        echo '<script type="text/javascript"> alert("Data Not Updated!") </script>';
    }
}
?>
```

Delete PHP File

```
<?php
include_once 'database.php';
$sql = "DELETE FROM voter WHERE Voter_id='" . $_GET["Voter_id"] . "'";
$query_run = mysqli_query($conn, $sql);
if($query_run)
{
    echo '<script type="text/javascript"> alert("Voter Record Deleted!") </script>';
}
else
{
    echo '<script type="text/javascript"> alert("Voter Record Not Deleted!") </script>';
}
mysqli_close($conn);
?>
```

Display Queries PHP File

```
<?php
include_once 'database.php';
$q1 = mysqli_query($conn,"SELECT FirstName, LastName, CandidateDOB, CandidateParty FROM Candidate");
$q2 = mysqli_query($conn,"SELECT LastName, VoterDOB, VoterParty FROM Voter WHERE LastName LIKE 's%'");
$q3 = mysqli_query($conn,"SELECT * FROM locations");
$q4 = mysqli_query($conn,"SELECT * FROM VolunteerLocation");
$q5 = mysqli_query($conn,"SELECT FirstName, LastName, VolunteerDOB, VolunteerLocation FROM Volunteer");
$q6 = mysqli_query($conn,"SELECT LastName, VoterDOB, Locations FROM Voter INNER JOIN Votes ON Voter.Voter_id = Votes.Voter_id");
$q7 = mysqli_query($conn,"SELECT FirstName, LastName, VoterParty FROM Voter WHERE VoterParty = 'Republican'");
$q8 = mysqli_query($conn,"SELECT FirstName, LastName, VoterParty FROM Voter WHERE VoterParty = 'Democrat'");

?>
<!DOCTYPE html>
<html>
<head>
```

```

<link rel="stylesheet" href="style.css">
<title> Display Queries</title>
</head>
<body>
<h1> Queries</h1>
<?php
if (mysqli_num_rows($q1) > 0) {
?>
    <table>
    <h2> Q1: Find all candidate running in the election, first name, last name, DOB
, and party.
</h2>
    <tr>
        <th>First Name</th>
        <th>Last Name</th>
        <th>Candidate DOB</th>
        <th>Candidate Party</th>
    </tr>
    <?php
$i=0;
while($row = mysqli_fetch_array($q1)) {
?>
    <tr>
        <td><?php echo $row["FirstName"]; ?></td>
        <td><?php echo $row["LastName"]; ?></td>
        <td><?php echo $row["CandidateDOB"]; ?></td>
        <td><?php echo $row["CandidateParty"]; ?></td>
    </tr>
    <?php
$i++;
}
?>
</table>
    <?php
}
else{
    echo "No result found";
}
?>

<?php
if (mysqli_num_rows($q2) > 0) {
?>
    <table>

```

```
<h2>Q2: Display the voters last name which starts with "S".
</h2>
```

```
    <tr>
        <th>Last Name</th>
        <th>Voter DOB</th>
        <th>Voter Party</th>
    </tr>
<?php
$i=0;
while($row = mysqli_fetch_array($q2)) {
?>
<tr>
    <td><?php echo $row["LastName"]; ?></td>
    <td><?php echo $row["VoterDOB"]; ?></td>
    <td><?php echo $row["VoterParty"]; ?></td>
</tr>
<?php
$i++;
}
?>
</table>
<?php
}
else{
    echo "No result found";
}
?>
```

```
<?php
if (mysqli_num_rows($q3) > 0) {
?>
```

```
    <table>
    <h2> Q3: Find all the poll location.
</h2>
```

```
    <tr>
        <th>Location Id</th>
        <th>Voter Id</th>
        <th>Volunteer Id</th>
        <th>Poll Location</th>
    </tr>
```

```
<?php
$i=0;
while($row = mysqli_fetch_array($q3)) {
?>
```



```

<tr>
    <td><?php echo $row["Location_id"]; ?></td>
    <td><?php echo $row["Voter_id"]; ?></td>
    <td><?php echo $row["Volunteer_id"]; ?></td>
    <td><?php echo $row["PollLocation"]; ?></td>
</tr>
<?php
$i++;
}
?>
</table>
<?php
}
else{
    echo "No result found";
}
?>

<?php
if (mysqli_num_rows($q4) > 0) {
?>
    <table>
    <h2>Q4: What was outcome for the Volunteer Location.
</h2>
    <tr>
        <th>Volunteer Location</th>
        <th>Outcome</th>
    </tr>
<?php
$i=0;
while($row = mysqli_fetch_array($q4)) {
?>
<tr>
    <td><?php echo $row["VolunteerLocation"]; ?></td>
    <td><?php echo $row["Outcome"]; ?></td>

</tr>
<?php
$i++;
}
?>
</table>
    <?php
}

```

```

else{
    echo "No result found";
}
?>

<?php
if (mysqli_num_rows($q5) > 0) {
?>
    <table>
    <h2>Q5: Find all the volunteer, first name, last name, location, and DOB.
</h2>
    <tr>
        <th>First Name</th>
        <th>Last Name</th>
        <th>Volunteer DOB</th>
        <th>Volunteer Location</th>
    </tr>
<?php
$i=0;
while($row = mysqli_fetch_array($q5)) {
?>
<tr>
    <td><?php echo $row["FirstName"]; ?></td>
    <td><?php echo $row["LastName"]; ?></td>
    <td><?php echo $row["VolunteerDOB"]; ?></td>
    <td><?php echo $row["VolunteerLocation"]; ?></td>
</tr>
<?php
$i++;
}
?>
</table>
<?php
}
else{
    echo "No result found";
}
?>

<?php
if (mysqli_num_rows($q6) > 0) {
?>
    <table>

```

```

<h2>Q6: What is the DOB and last name for the voters and which location did they
go to.
</h2>
<tr>

    <th>Last Name</th>
    <th>Voter DOB</th>
    <th>Locations</th>
</tr>
<?php
$i=0;
while($row = mysqli_fetch_array($q6)) {
?>
<tr>
    <td><?php echo $row["LastName"]; ?></td>
    <td><?php echo $row["VoterDOB"]; ?></td>
    <td><?php echo $row["Locations"]; ?></td>
</tr>
<?php
$i++;
}
?>
</table>
<?php
}
else{
    echo "No result found";
}
?>

<?php
if (mysqli_num_rows($q7) > 0) {
?>
    <table>
    <h2>Q7: Find all voter who are republican.
</h2>
    <tr>

        <th>First Name</th>
        <th>Last Name</th>
        <th>Voter Party</th>
    </tr>
<?php
$i=0;

```

```

while($row = mysqli_fetch_array($q7)) {
?>
<tr>
    <td><?php echo $row["FirstName"]; ?></td>
    <td><?php echo $row["LastName"]; ?></td>
    <td><?php echo $row["VoterParty"]; ?></td>
</tr>
<?php
$i++;
}
?>
</table>
    <?php
    }
else{
        echo "No result found";
    }
?>

<?php
if (mysqli_num_rows($q8) > 0) {
?>
    <table>
    <h2>Q8: Find all voter who are democrat.
</h2>
    <tr>

        <th>First Name</th>
        <th>Last Name</th>
        <th>Voter Party</th>
    </tr>
<?php
$i=0;
while($row = mysqli_fetch_array($q8)) {
?>
<tr>
    <td><?php echo $row["FirstName"]; ?></td>
    <td><?php echo $row["LastName"]; ?></td>
    <td><?php echo $row["VoterParty"]; ?></td>
</tr>
<?php
$i++;
}
?>

```

```

</table>
<?php
}
else{
    echo "No result found";
}
?>
</body>
</html>

```

Style CSS File

```

table
{
    font-family: arial, sans-serif;
    border-collapse: collapse;
    width: 100%;
}

td
{
    border: 5px solid #000000;
    text-align: left;
    padding: 8px;
}

th
{
    border: 5px solid #000000;
    text-align: center;
    padding: 8px;
    color: rgb(81, 151, 255);
}

tr:nth-child(even)
{
    background-color: rgb(166, 193, 206);
}

```

Project Phase 3: Demo Link

<https://drive.google.com/file/d/1vcBpxPZilk0KbNIfD2soToSMA5mE4jOI/view>

Resource

Below are some of the resources that we used to complete PHP Scripts like delete, inset, view, display, and update. Also, it was used to write SQL Database for this project.

<https://www.studentstutorial.com/php/php-introduction>

<https://www.w3schools.com/sql/>