DIS Police DB System Tech Manual

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- 2. Database
- 3. Files and Directories
- 4. How it works

1. Purpose & Basic requirements

1. Purpose:

This system was designed to provide an end-to-end system that will allow police officers to record and retrieve information about vehicles, people and traffic incidents.

Any officer who has an ID can login and use this system.

Also, there is an administrator who can manage accounts, add fines to any incidents or modify offence types in accordance with relevant laws.

- 2. Database: Mysql
- 3. Web page files: PHP(with Jquery 3.5.1(included in script folder), awesomefont)

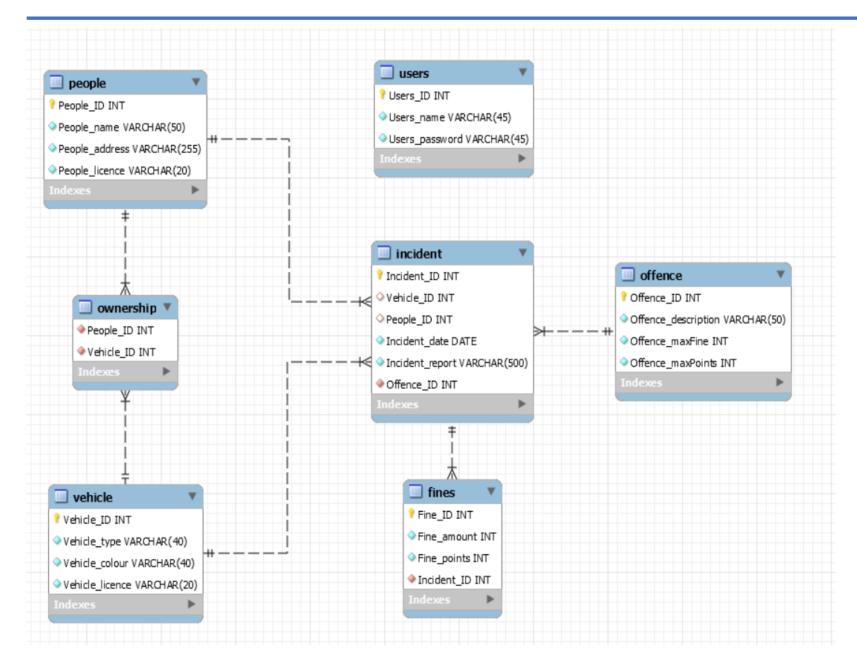
2. Database

- 1. Server name & Username / PW: psxsm27 / Crystal!41
- 2. Schema name: psxsm27
- 3. Mysql version: 6.3

2. Database – tables info (types and relationships on the next page)

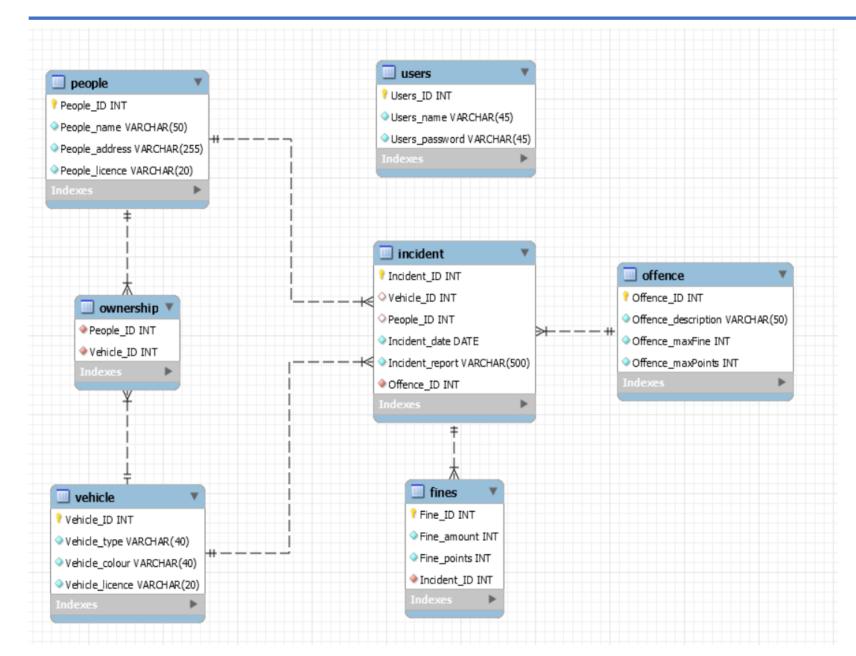
- People: (PK)People_ID, People_name, People_address, People_licence Personal records
- 2. Vehicle: (PK)Vehicle_ID, Vehicle_type, Vehicle_colour, Vehicle_licence Vehicle records
- Ownership : (FK)People_ID, (FK)Vehicle_ID Vehicle ownership
- 4. Offence: (PK)Offence_ID, Offence_description, Offence_maxFine, Offence_maxPoints Offence types and penalties
- 5. Incident: (PK)Incident_ID, (FK)Vehicle_ID, (FK)People_ID, (FK)Offence_ID, Incident_date, Incident_report Incident records
- 6. Fines: (PK)Fine_ID, (FK)Incident_ID, Fine_amount, Fine_points Fine records
- 7. Users: (PK)Users_ID, Users_name, Users_password DB Web user accounts
- (PK)ID is auto-increment value in all tables.
- Tables connected to each other by FKs are on update & delete cascade, so if any change occurs on one side, it will be reflected on the other.

2. Database – structure and input types (\sql\ERD.mwb)



- People can own one or more vehicles
- Ownership table reflects the ownership
- 3. For some vehicles, the owner might be unknown
- There are some people who don't have any vehicle (It has not yet been identified or might actually be)

2. Database – structure and input types (\sql\ERD.mwb)



- An incident involves one person and one vehicle
- The involved vehicle may not be in possession of the involved person
- In some cases, involved vehicle or person might be unknown
- 8. An incident is related to an offence
- An incident will be fined by admin after it is reported by an officer
- 10. Users include user accounts

2. Database – Queries (\sql\queries.txt)

- The query file is in the sql folder together with ERD file. (sql: queries.txt, ERD: ERD.mwb)

- Some initial records will be inserted by insert queries.
- It will drop the tables with the same name first, so be sure to backup all the important data first!

- Queries order: drop previous table -> create new table -> insert records -> specify primary keys
 - -> set primary keys auto increment -> add foreign key relationships

3. Files and directories - Outline

- 1. Folders are categorised for each function
 - (people, vehicle, incident -> report, offence, fines, manage account -> account)
- 2. Each category(folder) includes three functions (search/insert and edit/ delete)
- 3. Search function file name = folder name
- 4. Search function files are the first pages of each category
- 5. Each file name starts with the first letter of the folder name and underline (Report -> starts with r_)
- 6. Insert and edit files named as "ins_edit" or "ins" if there is no edit function (People -> p_ins_edit)
- 7. Delete files named as **"delete"** (Fines -> f_delete)

3. Files and directories - Outline

- 8. Logo on the upper left corner is in images folder
- 9. CSS file "styles.css" is in css folder
- 10. The CSS file also follows the naming rules of files on the previous page (5.)
- 11. Connection configure file (dbcon.php), log in/out file (login.php and logout.php), Home file (main.php), and change password file (change_password.php) is in the root folder

3. Files and directories – PHP files

root: login, logout, change_password, main, dbcon

account: account, a_insert, a_delete

fines: fines, f_ins_edit, f_delete

offence: offence, off_ins_edit, off_delete

people: people, p_ins_edit, p_delete

report: report, r_ins_edit, r_delete

vehicle: vehicle, v_ins_edit, v_delete

3. Files and directories – Other files

root: accounts.txt

css: [CSS] styles.css

images: logo.jpg

script: jquery-3.5.1.min.js

sql: ERD.mwb, queries.txt

4. How it works

- Each php file is organised in the following order
- 1. Session start, require dbcon.php, check the user is still logged-on
- 2. Initialize post variables and error messages
- 3. post variables and queries
- 4. Javascript functions
- 5. HTML (Search, Insert or Edit forms)
- For each input values, pattern, maxlength were used to prevent any user error
- For user convenience, input title, placeholder and oninvalid were used

4-1. How it works (login.php)



Login.php is the first page of this system.

If the user is already logged in, he will be redirected to the main page.

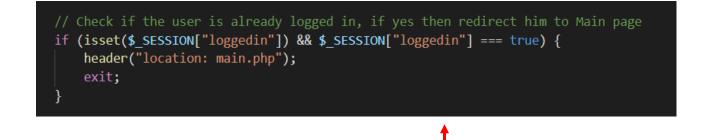
Login

Please fill in your ID and password to login.

Username

Password

Login



login.php

On the other hand, if someone tries to open other pages without logging in, he will be redirected to this page.

```
// Check if the user is logged in, if not then redirect to login page
if (!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true) {
   header("location: ..\login.php");
   exit;
}
The other pages
```

4-1. How it works (login.php)



DIS Police DB System

Please enter your password.

Login Please fill in your ID and password to login. "SELECT * FROM Users WHERE Users name = '\$Users name'"; \$correct password = \$row["Users password"]; Username \$Users_password == \$correct_password Password -> login and redirect to main.php \$_SESSION["loggedin"] = true; \$ SESSION["Users name"] = \$Users name; Login if (strcasecmp(\$Users_name, "haskins") == 0) { \$_SESSION["isadmin"] = true;} Username If \$Users name or \$Users password is empty after Please enter username. trimming, it will display error messages on the screen Password

4-2. How it works (main.php)



href main.php

DIS Police DB System

\$_SESSION["Users_name"]



Home

People

Vehicle

Report

Offence

Fines

DB Guide

Side bar to navigate pages (href)

People

- To search & edit or insert personal records (name, address, licence)

Vehicle

- To search & edit or insert vehicle records (type, colour, licence)

Report

- To search & edit or insert incident reports (date, engaged person, engaged vehicle, offence type, description)

Offence

- To search or insert/edit(admin only) type of offence (description, max fine, max point)

Fines

- To search or insert/edit(admin only) fine records (name, address, licence)

Warning!

- Any changes to certain record can affect other records.
- For example, changes on a personal or vehicle record can affect report or fine records.
- Therefore, please make sure to search and check other related records first.

Change password button (href change_password.php), Log out button (href logout.php)

4-3. How it works (change_password.php)



DIS Police DB System

Hello, Regan.

Change password

Log out

Home

People

Vehicle

Report

Offence

Fines

Change Password

Please fill out this form to change your password.

New Password

Enter new password 6-10 characters without spaces

Confirm Password

Please input your password again to confirm

Submit Cancel

```
$Users_name = $_SESSION["Users_name"];

If $new_password == $confirm_password
-> $sql = "UPDATE Users SET Users_password = '$new_password'
WHERE Users_name = '$Users_name'";
```

4-4. How it works (people.php)



DIS Police DB System

Hello, Regan.

Change password

Log out

Home

People

Vehicle

Report

Offence

Fines

```
Search or Update Personal Record
                                                       href p ins edit.php

▼ Enter search keyword or just press search button
 Name
                $p search
$p category
                                                       Non-case-sensitive,
                                                       partial search available
 $sql = "SELECT * FROM People WHERE " . $p_category . " LIKE \"%" . $p_search . "%\"
 LIMIT $start_from, $per_page_record;";
                                              Set $per_page_record as appropriate
                                              The searqh form includes $page as a hidden input
                          pagination
  if (isset($_POST["page"])) { spage = $_POST["page"];} else { spage = 1;}
  $start_from = ($page - 1) * $per_page record;
```

4-4. How it works (people.php)



Home

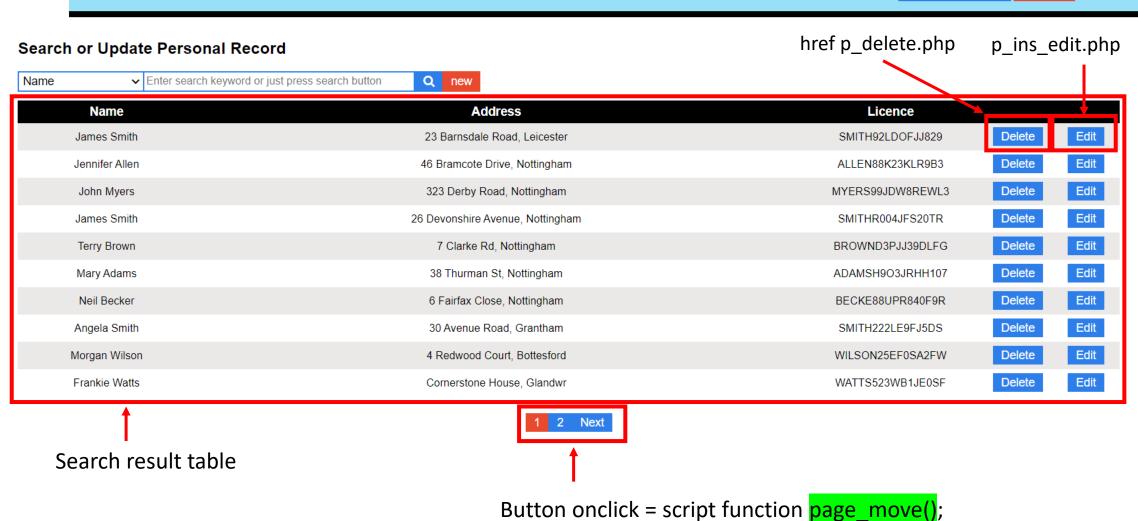
People

Vehicle

Report

Offence

Fines



It submits the form again with different page numbers

DIS Police DB System

Hello, Regan.

Log out

Change password

4-4. How it works (p_delete.php)

```
people.php
function confirmDelete(ID)
window.location.href = "p delete.php?People ID=".concat(ID)
GET method, each button contains each record's People ID
= 'confirmDelete(".$row["People_ID"].")'>
Delete</button>
p_delete.php
$People ID=$ REQUEST['People ID'];
$sql = "DELETE FROM People WHERE People_ID=".$People_ID.";";
```

Licence		
SMITH92LDOFJJ829	Delete	Edit
ALLEN88K23KLR9B3	Delete	Edit
MYERS99JDW&REWL3	Delete	Edit
SMITUR004JFS20TR	Delete	Edit
BROWND3PJJ39DLFG	Delete	Edit
ADAMSH9O3JRHH107	Delete	Edit
BECKE88UPR840F9R	Delete	Edit
SMITH222LE9FJ5DS	Delete	Edit
WILSON25EF0SA2FW	Delete	Edit
WATTS523WB1JE0SF	Delete	Edit

4-4. How it works (p_ins_edit.php) - Insert



DIS Police DB System

Hello, Regan.

Change password

Log out

Home

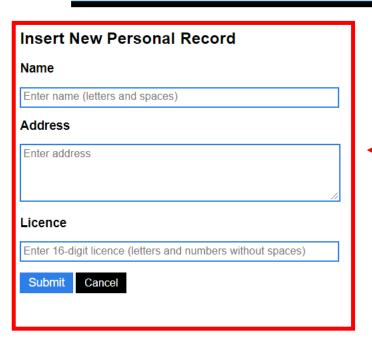
People

Vehicle

Report

Offence

Fines



```
$Status = 0; // insert(0), edit(1)
$People_name;
$People_address;
$People_licence;

- // check if the People_licence is already in the database
$sql=
"SELECT * FROM People WHERE People_licence = '$People_licence'";

// If not,
$sql =
"INSERT INTO People (People_name, People_address, People_licence)
VALUES ('$People_name', '$People_address', '$People_licence')";
```

4-4. How it works (p_ins_edit.php) - Edit

```
people.php
function Edit(ID)
window.location.href = "p ins edit.php?People ID=".concat(ID).
concat("&&Status=1")
GET method, send selected ID and status=1
                                                                                               Licence
                                                                                            SMITH92LDOFJJ829
                                                                                            ALLEN88K23KLR9B3
p ins edit.php
                                                                                            MYERS99JDW8RFWL3
if (isset($ GET["People ID"]) && $ GET["Status"] == 1)
                                                                                            SMITHR004JFS20TR
 $Edit people ID = $ GET["People ID"];
 $Status = $ GET["Status"];
                                                                                            BROWND3PJJ39DLFG
                                                                                            ADAMSH9O3JRHH107
 $sql = "SELECT * FROM People WHERE People ID = '$Edit people ID'";
                                                                                            BECKE88UPR840F9R
 $People_name = $row['People_name'];
                                                                                            SMITH222LE9FJ5DS
 $People address = $row['People address'];
                                                                                            WILSON25EF0SA2FW
 $People licence = $row['People licence'];
                                                                                            WATTS523WB1JE0SF
Using the Select query, get previous input values to edit
and input them on the edit form
```

Delete

Delete

Delete

Delete

Delete

Delete

Delete

Delete

Edit

Edit

Edit

Edit

Edit

Edit

Edit

Edit

4-4. How it works (p_ins_edit.php) - Edit



DIS Police DB System

Hello, Regan.

Change password

Log out

Home

People

Vehicle

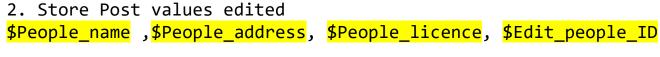
Report

Offence

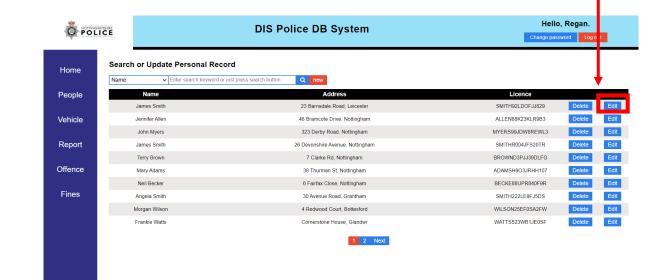
Fines



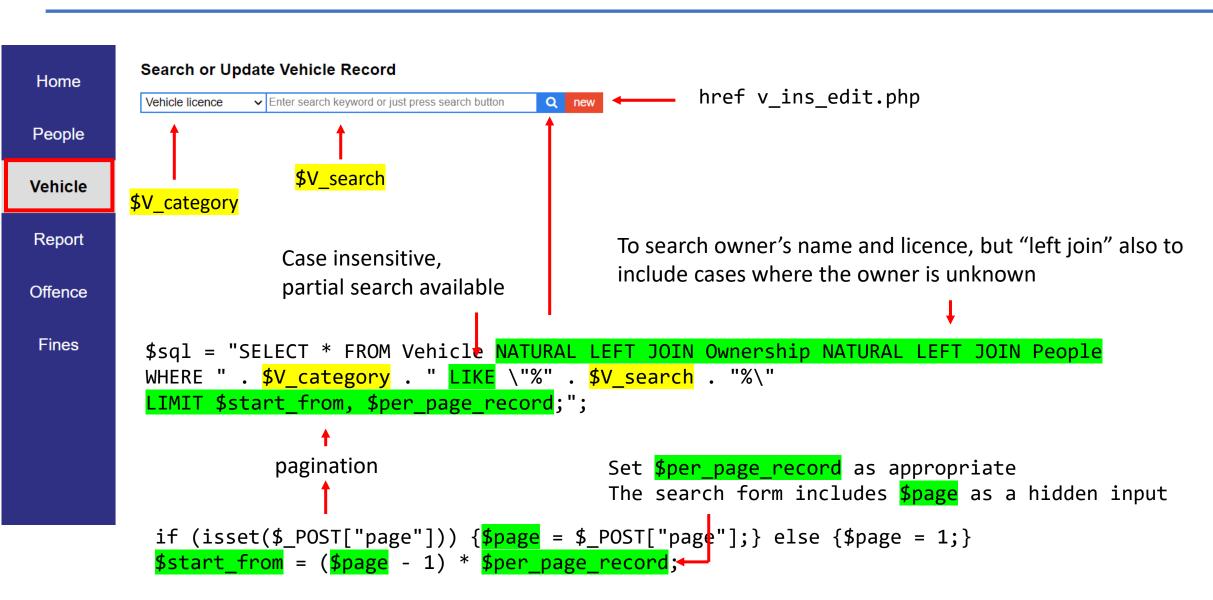
1. At first, as mentioned on the previous page, there will be previous input values



3. Update table using query
\$sql = "UPDATE People SET People_name = '\$People_name',
People_address = '\$People_address',
People_licence = '\$People_licence'
WHERE People ID = '\$Edit people ID'";



4-5. How it works (vehicle.php)



4-5. How it works (vehicle.php)



Home

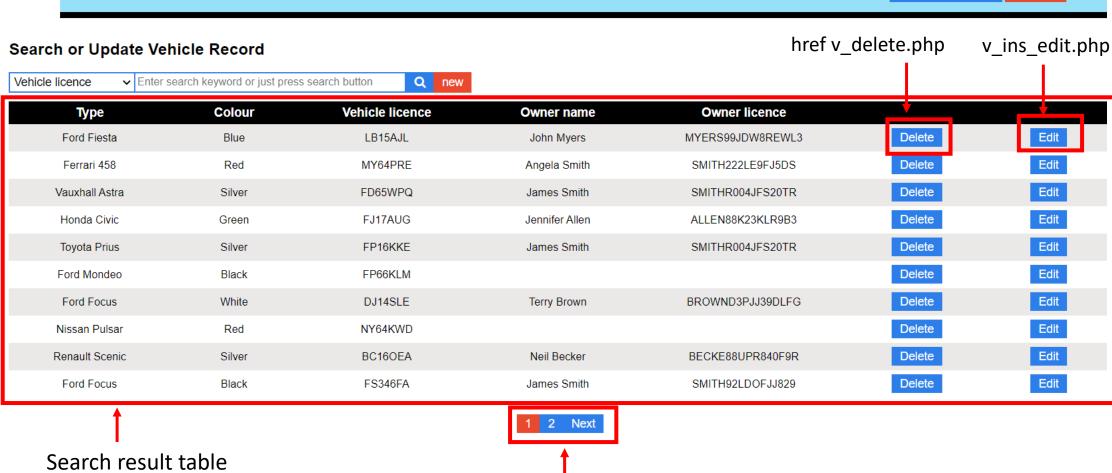
People

Vehicle

Report

Offence

Fines



DIS Police DB System

Button onclick = script function page_move();
It submits the form again with different page numbers

Hello, Regan.

Log out

Change password

4-4. How it works (v_delete.php)

```
vehicle.php
  function confirmDelete(ID)
  window.location.href = "v_delete.php?Vehicle_ID=".concat(ID)
  GET method, each button contains each record's Vehicle ID
                                                                                    Owner licence
  \ton onclick='confirmDelete(".\$row["Vehicle_ID"].")'>
                                                                                                         Delete
                                                                                                                       Edit
                                                                                  MYERS99JDW8REWL3
  Delete</button>
                                                                                                                       Edit
                                                                                   SMITH222LE9FJ5DS
                                                                                                         Delete
                                                                                                                       Edit
                                                                                   SMITHR004JFS20TR
                                                                                   ALLEN88K23KLR9B3
                                                                                                         Delete
                                                                                                                       Edit
                                                                                   SMITHR004JFS201R
                                                                                                         Delete
                                                                                                                       Edit
                                                                                                         Delete
                                                                                                                       Edit
                                                                                  BROWND3PJJ39DLFG
                                                                                                                       Edit
                                                                                                        Delete
                                                                                                         Delete
v delete.php
                                                                                                        Delete
                                                                                                                       Edit
                                                                                   BECKE88UPR840F9R
$Vehicle_ID=$_REQUEST['Vehicle_ID'];
                                                                                   SMITH92LDOFJJ829
                                                                                                        Delete
                                                                                                                       Edit
$sql = "DELETE FROM Vehicle WHERE Vehicle_ID=".$Vehicle ID.";";
```

4-5. How it works (v_ins_edit.php) - Insert



DIS Police DB System

Hello, Regan.

Change password

Log out

Home

People

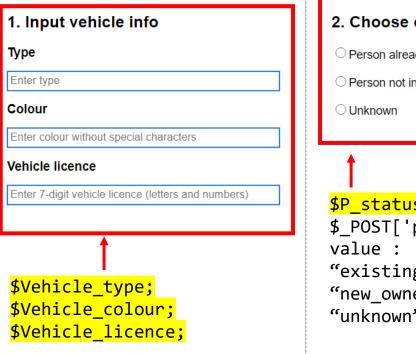
Vehicle

Report

Offence

Fines

Insert New Vehicle Record



```
2. Choose owner status
```

- O Person already in the database
- O Person not in the database

```
$P status =
$_POST['p_radio_btn'];
"existing_owner" or
"new owner" or
"unknown"
```

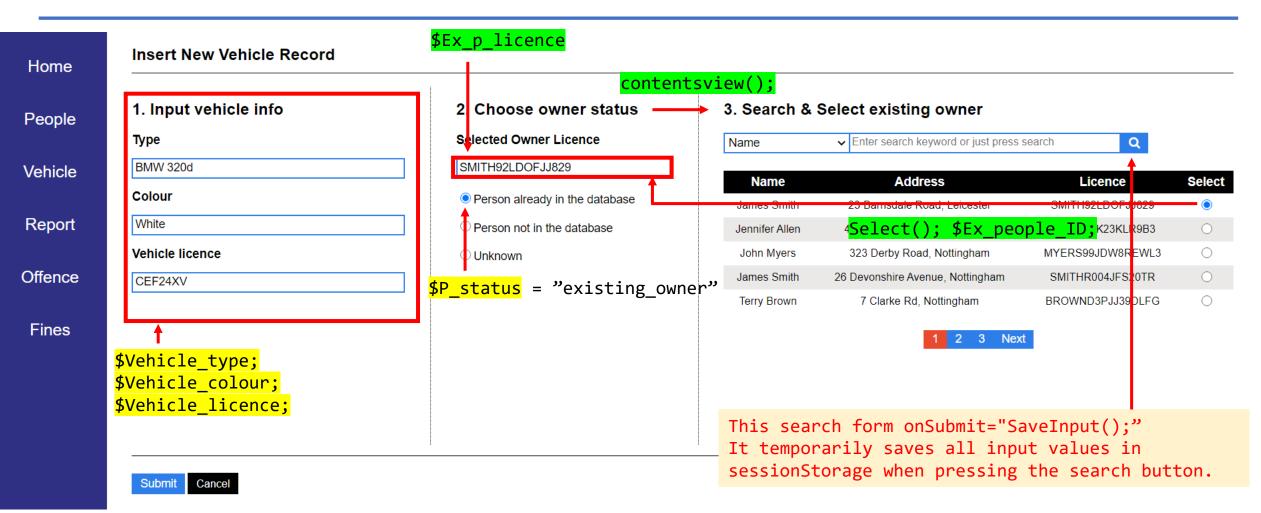
Onclick Javascript contentsview();

It shows the appropriate form for each \$P status

4-5. How it works (v_ins_edit.php) – Insert [Existing owner]

\$Ex p licence, if the owner selected on 3., it will be automatically filled out. Not used "readonly" attribute to make it "required", use preventDefault(); \$(".readonly").keydown(function(e) {e.preventDefault();}); Insert New Vehicle Record The owner search form works in the Home contentsview(); same way as people search 2 Choose owner status ——— 3. Search & Select existing owner 1. Input vehicle info People Type Selected Owner Licence Name ▼ Enter search keyword or just press search SMITH92LDOFJJ829 **BMW 320d** Vehicle **Address** Name Licence Select Colour Person already in the database Report White Person not in the database Jennifer Allen 46 Bramcote Drive, Nottingham ALLEN88K23KLR9B3 Vehicle licence John Myers 323 Derby Road, Nottingham MYERS99JDW8REWL3 Unknown Offence James Smith 26 Devonshire Avenue, Nottingham SMITHR004JFS20TR CEF24XV Terry Brown 7 Clarke Rd. Nottingham BROWND3PJJ39DLFG Fines \$P status = "existing owner" 2 3 Next \$Vehicle type; function Select(Selected p ID, Selected p licence) \$Vehicle colour; \$Ex people ID = Selected p ID; \$Vehicle licence; \$Ex p licence = Selected p licence;

4-5. How it works (v_ins_edit.php) – Insert [Existing owner]



4-5. How it works (v_ins_edit.php) – Insert [Existing owner]

```
// Check if the same vehicle licence number is already in the database
$Select query = "SELECT * FROM Vehicle WHERE Vehicle licence = '$Vehicle licence'";
// If not, use transaction to prevent any situation where only part of them executed.
if ($P_status == "existing_owner")
Try { mysqli autocommit($conn, false);
  $sql1 = "INSERT INTO Vehicle (Vehicle_type, Vehicle_colour, Vehicle_licence) VALUES
    ('$Vehicle type','$Vehicle colour','$Vehicle licence');";
  $Vehicle_ID = mysqli_insert_id($conn); // Get the Vehicle_ID inserted by $sql1
  $sql2 = "INSERT INTO Ownership VALUES ('$Ex people ID', '$Vehicle ID');";
 mysqli commit($conn);
 } Catch () {...}
// So, there will be both new vehicle record and new ownership record.
```

4-5. How it works (v_ins_edit.php) – Insert [New owner]



4-5. How it works (v_ins_edit.php) – Insert [New owner]

```
if ($P status == "new owner")
// Check if the personal licence number is already in the database
$Select guery = "SELECT * FROM People WHERE People licence = '$People licence'";
// If not, transaction to prevent any situation where only part of these queries executed.
Try { mysqli autocommit($conn, false);
  // Insert into People
  $sql1 = "INSERT INTO People (People name, People address, People licence)
        VALUES ('$People name', '$People address', '$People licence')";
  $People ID = mysqli insert id($conn); // Get inserted people ID
  // Insert into Vehicle
  $sql2 = "INSERT INTO Vehicle (Vehicle type, Vehicle colour, Vehicle licence)
        VALUES ('$Vehicle type','$Vehicle colour','$Vehicle licence');";
  $Vehicle ID = mysqli insert id($conn); // Get inserted Vehicle ID
  // Insert into Ownership
  $sql3 = "INSERT INTO Ownership VALUES ('$People ID', '$Vehicle ID');";
 mysqli commit($conn);
} Catch () {...}
// So, there will be new vehicle record, people record, and ownership record.
```

4-5. How it works (v_ins_edit.php) – Insert [Owner unknown]



Insert New Vehicle Record

Cancel

DIS Police DB System

Hello, Regan.

Change password

Log out

Home

People

Vehicle

Report

Offence

Fines

contentsview(); 1. Input vehicle info 2. Choose owner status Туре O Person already in the database BMW 320d O Person not in the database Colour Unknown White \$P status = "unknown" Vehicle licence CEF24XV \$Vehicle type; Insert into Vehicle \$Vehicle colour; \$sql = "INSERT INTO Vehicle (Vehicle_type, Vehicle_colour, Vehicle_licence) \$Vehicle licence; VALUES ('\$Vehicle type', '\$Vehicle colour', '\$Vehicle licence');";

// Only a new vehicle record will be inserted

4-5. How it works (v_ins_edit.php) - Edit

```
Vehicle.php
function Edit(ID)
window.location.href = "v ins edit.php?Vehicle ID=".concat(ID).
concat("&&Status=1")
GET method, send selected ID and status=1
                                                                                    Owner licence
                                                                                                        Delete
                                                                                                                      Edit
v ins edit.php
                                                                                  MYFRS99JDW8RFWL3
if (isset($ GET["Vehicle ID"]) && $ GET["Status"] == 1)
                                                                                                        Delete
                                                                                                                      Edit
                                                                                   SMITH222LE9FJ5DS
  // get the chosen vehicle ID & status,
                                                                                                                      Edit
                                                                                   SMITHR004JFS20TR
  // and then set up edit form with previous values
                                                                                   ALLEN88K23KLR9B3
                                                                                                        Delete
  $Edit vehicle ID = $ GET["Vehicle_ID"];
                                                                                   SMITHR004JFS20TR
                                                                                                        Delete
                                                                                                                      Edit
  $Status = $ GET["Status"];
                                                                                                        Delete
  $Sql = "SELECT * FROM Vehicle NATURAL LEFT JOIN Ownership
                                                                                                                      Edit
                                                                                  BROWND3PJJ39DLFG
                                                                                                        Delete
   NATURAL LEFT JOIN People WHERE Vehicle ID = '\$Edit vehicle ID';";
  $Vehicle type = $row['Vehicle type'];
                                                                                                        Delete
  $Vehicle colour = $row['Vehicle colour'];
                                                                                                        Delete
                                                                                                                      Edit
                                                                                   BECKE88UPR840F9R
  $Vehicle_licence = $row['Vehicle_licence'];
                                                                                   SMITH92LDOFJJ829
                                                                                                        Delete
  $Ex people ID = $row['People ID'];
  // set the owner status based on the previous value
  if ($Ex_people_ID == "") -> $P_status = "unknown";
  else -> $P status = "existing owner"; $Ex p licence = $row['People licence'];
```

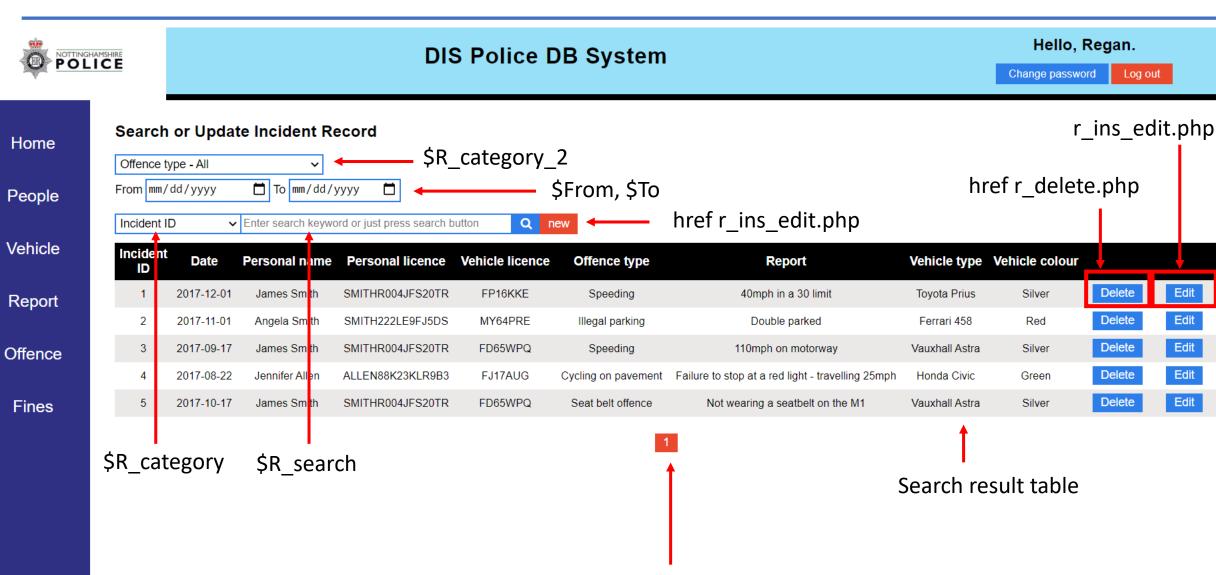
4-5. How it works (v_ins_edit.php) - Edit

```
The edit form mechanism is the same as the people page.
There will be previous values with radio buttons selected, and users can edit them.
// Check if the updated licence number is already in the database and it is not the previous one
$Select query = "SELECT * FROM Vehicle WHERE Vehicle licence = '$Vehicle licence'";
$row = mysqli_fetch_assoc($Select_result);
$Vehicle ID = $row['Vehicle ID'];
if ($Edit vehicle ID != $Vehicle ID)
// If not, update
$Status == 1 and existing owner
  // Use transaction to prevent any situation where only part of them updated
  Try { mysqli autocommit($conn, false);
    // Update vehicle record
    $sql1 = "UPDATE Vehicle SET Vehicle type = '$Vehicle type', Vehicle colour = '$Vehicle colour',
            Vehicle licence = '\frac{\$Vehicle licence} \text{ WHERE Vehicle ID = '\frac{\$Edit vehicle ID'";}
    // Check if the vehicle was owned by someone else
      // If so, update the ownership record
      $sql2 = "UPDATE Ownership SET People_ID = '$Ex_people_ID' WHERE Vehicle_ID = '$Edit_vehicle_ID'";
      // If not, insert new ownership record
      $sql2 = "INSERT INTO Ownership VALUES ('$Ex people ID', '$Edit vehicle ID');";
    mysqli commit($conn);
  } Catch () {...}
```

4-5. How it works (v_ins_edit.php) - Edit

```
$Status == 1 and new owner
  // Use transaction to prevent any situation where only part of them updated
Try { mysqli autocommit($conn, false);
  // check if the People licence is already in the database
  $Select query = "SELECT * FROM People WHERE People licence = '$People licence'";
  // If not, insert into people
  $sql1 = "INSERT INTO People (People name, People_address, People_licence)
           VALUES ('$People name', '$People address', '$People licence')";
  $People ID = mysqli insert id($conn);
  // update vehicle
   $sql2 = "UPDATE Vehicle SET Vehicle type = '$Vehicle type', Vehicle colour = '$Vehicle colour',
            Vehicle licence = '\( \frac{\$Vehicle licence}{\} \) WHERE Vehicle ID = '\( \frac{\$Edit vehicle ID}{\} \)'";
  // Check if the vehicle was owned by someone else
   $Select_query = "SELECT * FROM Ownership WHERE Vehicle ID = '$Edit vehicle ID'";
    // if so, update the ownership
    $sql3 = "UPDATE Ownership SET People_ID = '$People_ID' WHERE Vehicle_ID = '$Edit_vehicle ID'";
    // if not, insert new ownership record
    $sql3 = "INSERT INTO Ownership VALUES ('$People ID', '$Edit vehicle ID');";
mysqli commit($conn); } Catch () {...}
```

4-6. How it works (report.php)



Button onclick = script function page_move();
It submits the form again with different page numbers

4-6. How it works (report.php)

```
// If Offence type All
// Natural left join to search involved person and vehicle info together
if ($R category 2 == 'All')
$sql = "SELECT * FROM Incident NATURAL LEFT JOIN Vehicle NATURAL LEFT JOIN People
  NATURAL LEFT JOIN Offence // LEFT JOIN to include offence type, involved person and vehicle
  WHERE " . $R category . " LIKE \"%" . $R search . "%\" // for non-case-sensitive and partial search
  AND Incident date BETWEEN '\strom' AND '\strom' ORDER BY Incident ID ASC // From and To date
   LIMIT $start from, $per page record;"; // Pagination
// Else if certain offence type is selected
// Natural left join to search involved person and vehicle info together
$R sql 1 = "SELECT * FROM Incident NATURAL LEFT JOIN Vehicle NATURAL LEFT JOIN People
  NATURAL LEFT JOIN Offence
  WHERE " . $R_category . " LIKE \"%" . $R_search . "%\"
  AND Incident date BETWEEN '$From' AND '$To'
  AND Offence_description = '$R_category_2' ORDER BY Incident_ID ASC // Offence_type
   LIMIT $start from, $per page record;";
// if To date is not specified, then it will be set today's date
if ($ POST['to'] != '' && $ POST['to'] != null) {
    $To = $_POST['to'];
    } else {
   $To = date("Y-m-d");
```

4-6. How it works (r_delete.php)

```
report.php
function confirmDelete(ID)
window.location.href = "r_delete.php?Incident_ID=".concat(ID)

GET method, each button contains each record's Incident_ID

Incident_ID"].")'>
Delete</button>
```

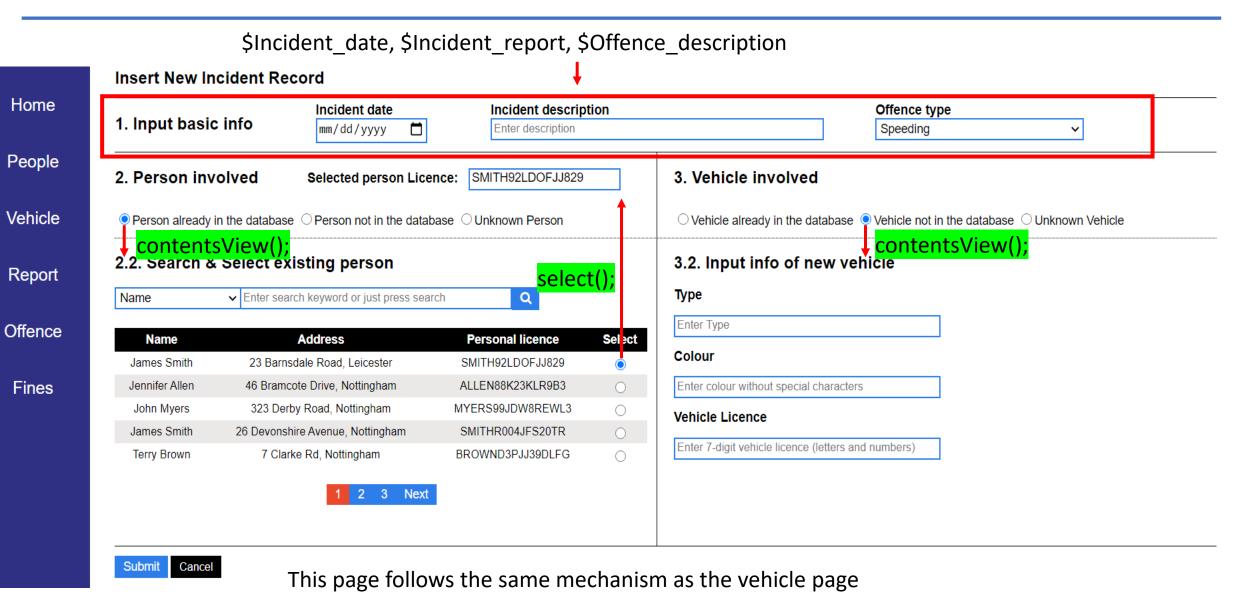
Report	Vehicle type	Vehicle colour		
Omph in a 30 limit	Toyota Prius	Silver	Delete	Edit
Double parked	Ferrari 458	Bed	Delete	Edit
)mph on motorway	Vauxhall Astra	Silver	Delete	Edit
at a red light - travelling 25mph	Honda Civic	Green	Delete	Edit
ring a seatbelt on the M1	Vauxhall Astra	Silver	Delete	Edit

```
r_delete.php
$Incident_ID=$_REQUEST['Incident_ID'];
$sql = "DELETE FROM Incident WHERE Incident_ID=".$Incident_ID.";";
```

Home

Report

Fines



```
// existing person
     // existing vehicle
     // insert into incident with chosen people ID and vehicle ID
     $sql = "INSERT INTO Incident
                         (Vehicle ID, People ID, Incident date, Incident report, Offence ID) VALUES
                         ('$Ex vehicle ID', '$Ex people ID', '$Incident date', '$Incident report', '$Offence ID');";
     // new vehicle
     // Check if the same vehicle licence number is already in the database
                      $Select query = "SELECT * FROM Vehicle WHERE Vehicle licence = '$Vehicle licence'";
     // If not, use transaction to insert data into tables
     try { mysqli_autocommit($conn, false);
           // Insert into Vehicle
           $V ins query = "INSERT INTO Vehicle (Vehicle type, Vehicle colour, Vehicle licence) VALUES
                   ('$Vehicle type','$Vehicle colour','$Vehicle licence');";
           // Get the inserted vehicle ID
          $Vehicle_ID = mysqli_insert id($conn);
           // Insert into Incident
          $sql = "INSERT INTO Incident (Vehicle_ID, People_ID, Incident_date, Incident_report, Offence_ID)
                   VALUES ('\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fracc}{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\f{\f{\f{\fir\firec{\
     mysqli commit($conn);
     } Catch () {...}
```

```
// existing person
  // unknown vehicle
  // insert into incident with chosen people ID
 $sql = "INSERT INTO Incident (People ID, Incident date, Incident report, Offence ID) VALUES
         ($Ex people ID', '$Incident date', '$Incident report', '$Offence ID');";
// new person
 // existing vehicle
 // check if the People licence is already in the database
 $Select guery = "SELECT * FROM People WHERE People licence = '$People licence'";
 // If not, use transaction to insert data into tables
 try { mysqli_autocommit($conn, false);
    // Insert into People
    $P ins query = "INSERT INTO People (People name, People address, People licence)
                    VALUES ('$People name', '$People address', '$People licence');";
    // Get the inserted People ID
    $People ID = mysqli insert id($conn);
    // Insert into Incident
    $sql = "INSERT INTO Incident (Vehicle_ID, People_ID, Incident_date, Incident_report, Offence_ID)
        VALUES ('<mark>$Ex_vehicle_ID</mark>', '<mark>$People_ID</mark>', '<mark>$Incident_date</mark>', '<mark>$Incident_report</mark>', '<mark>$Offence_ID</mark>');";
 mysqli commit($conn); } Catch () {...}
```

```
// new person
     // new vehicle
     // Check if the People_licence is already in the database
     $Select guery = "SELECT * FROM People WHERE People licence = '$People licence'";
     // Check if the same vehicle licence number is already in the database
     $Select query = "SELECT * FROM Vehicle WHERE Vehicle licence = '$Vehicle licence'";
     // If not, use transaction to insert data into tables
     try { mysqli_autocommit($conn, false);
          // Insert into People
          $P_ins_query = "INSERT INTO People (People_name, People_address, People_licence)
                                                    VALUES ('$\frac{\frac{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{\parabole}{
           // Get the inserted People ID
           $People_ID = mysqli_insert_id($conn);
           // Insert into Vehicle
          $V ins query = "INSERT INTO Vehicle (Vehicle type, Vehicle colour, Vehicle licence) VALUES
                                            ('$Vehicle type','$Vehicle colour','$Vehicle licence');";
           // Get the inserted Vehicle ID
          $Vehicle ID = mysqli insert id($conn);
           // Insert into Incident
          $sql = "INSERT INTO Incident (Vehicle_ID, People_ID, Incident_date, Incident_report, Offence_ID)
                                VALUES ('$Vehicle ID', '$People ID', '$Incident date', '$Incident report', '$Offence ID');";
     mysqli commit($conn); } Catch () {...}
```

```
new person
// unknown vehicle
// check if the People licence is already in the database
$Select query = "SELECT * FROM People WHERE People licence = '$People licence'";
// If not, use transaction to insert data into tables
try { mysqli autocommit($conn, false);
  // Insert into People
  $P ins query = "INSERT INTO People (People name, People address, People licence)
                  VALUES ('$\frac{\shape ple name}{\shape ple address', \shape \frac{\shape ple licence}{\shape ple licence}};
  // Get the inserted People ID
  $People ID = mysqli_insert_id($conn);
  // Insert into Incident
  $sql = "INSERT INTO Incident (People ID, Incident date, Incident report, Offence ID) VALUES
         ('$People ID', '$Incident date', '$Incident report', '$Offence ID');";
mysqli commit($conn); } Catch () {...}
```

```
unknown person
// existing vehicle
  // Insert into Incident
  $sql = "INSERT INTO Incident (Vehicle ID, Incident date, Incident report, Offence ID) VALUES
         ('$Ex vehicle ID', '$Incident date', '$Incident report', '$Offence ID');";
// new vehicle
  // Check if the same vehicle licence number is already in the database
  $Select query = "SELECT * FROM Vehicle WHERE Vehicle licence = '$Vehicle licence'";
 // If not, use transaction to insert data into tables
 try { mysqli autocommit($conn, false);
    // Insert into Vehicle
   $V ins query = "INSERT INTO Vehicle (Vehicle type, Vehicle colour, Vehicle licence) VALUES
                   ('$Vehicle type','$Vehicle colour','$Vehicle licence');";
    // Get the inserted Vehicle ID
   $Vehicle ID = mysqli_insert_id($conn);
    // Insert into Incident
    $sql = "INSERT INTO Incident (Vehicle ID, Incident date, Incident report, Offence ID) VALUES
           ('$Vehicle ID', '$Incident date', '$Incident report', '$Offence ID');";
 mysqli commit($conn); } Catch () {...}
```

```
Report.php
function Edit(ID)
window.location.href = "r_ins_edit.php?Incident_ID=".concat(ID).
concat("&&Status=1")
GET method, send selected ID and status=1
  r_ins_edit.php
  if (isset($_GET[" Incident_ID"]) && $_GET["Status"] == 1)
    // Get chosen Incident ID and status
    $Edit_incident_ID = $_GET["Incident_ID"];
    $Status = $ GET["Status"];
```

Report	Vehicle type	Vehicle colour			
Omph in a 30 limit	Toyota Prius	Silver	Delete	Edit	
Double parked	Ferrari 458	Red	Delete	Edit	
mph on motorway	Vauxhall Astra	Silver	Delete	Edit	
at a red light - travelling 25mph	Honda Civic	Green	Delete	Edit	
ring a seathelt on the M1	Vauxhall Astra	Silver	Delete	Edit	

```
r_ins_edit.php
 // find other values using the Incident ID
  $Select query = "SELECT * FROM Incident NATURAL LEFT JOIN Vehicle NATURAL LEFT JOIN People
    NATURAL LEFT JOIN Offence WHERE Incident ID = '\second Edit incident ID';";
    // get previous vehicle status
    $Ex vehicle ID = $row['Vehicle ID'];
    if ($Ex_vehicle_ID == "") { $V_status = "unknown_vehicle";
     } else {
        $V status = "existing vehicle";
        $Ex v licence = $row['Vehicle licence'];
    // get previous people status
    $Ex_people_ID = $row['People_ID'];
    if ($Ex people ID == "") {
        $P_status = "unknown person";
      } else {
        $P status = "existing person";
        $Ex p licence = $row['People licence'];
    // get other previous information
    $Incident_date = $row['Incident_date'];
    $Incident_report = $row['Incident_report'];
    $Offence ID = $row['Offence ID'];
    $Offence description = $row['Offence description'];
```

```
The edit form mechanism is the same as the people page.
There will be previous values with radio buttons selected, and users can edit them.
(All queries the same as insert have been omitted.)
// existing person
 // existing vehicle
 // Update incident with chosen people ID and vehicle ID
 $sql = "UPDATE Incident SET Vehicle ID = '$Ex vehicle ID', People ID = '$Ex people ID',
          Incident date = '$Incident date', Incident report = '$Incident report',
         Offence ID = '$Offence ID' WHERE Incident ID = '$Edit incident ID';";
  // new vehicle
 // Check if the same vehicle licence number is already in the database
 // If not, use transaction to insert data into tables
 try { mysqli autocommit($conn, false);
    // Insert into Vehicle
    // Get the inserted vehicle ID
   // Update Incident
   $sql = "UPDATE Incident SET Vehicle_ID = '$Vehicle_ID', People_ID = '$Ex_people_ID',
          Incident date = '$Incident date', Incident report = '$Incident report',
          Offence ID = '$Offence ID' WHERE Incident ID = '$Edit incident ID';");
 mysqli commit($conn);
 } Catch () {...}
```

```
existing person
  // unknown vehicle
 // Update incident with chosen people ID
 $sql = "UPDATE Incident SET Vehicle ID = NULL, People ID = '$Ex people ID',
        Incident date = '$Incident date', Incident report = '$Incident report',
        Offence ID = '$Offence ID' WHERE Incident ID = '$Edit incident ID';";
// new person
 // existing vehicle
 // check if the People licence is already in the database
 // If not, use transaction to insert data into tables
 try { mysqli autocommit($conn, false);
   // Insert into People
   // Get the inserted People ID
   // Update Incident
   $sql = "UPDATE Incident SET Vehicle ID = '$Ex vehicle ID', People ID = '$People ID',
          Incident date = '$Incident date', Incident report = '$Incident report',
          Offence ID = '$Offence ID' WHERE Incident ID = '$Edit incident ID';";
 mysqli commit($conn); } Catch () {...}
```

```
// new person
 // new vehicle
 // Check if the People licence is already in the database
 // Check if the same vehicle licence number is already in the database
 // If not, use transaction to insert data into tables
 try { mysqli autocommit($conn, false);
    // Insert into People
    // Get the inserted People ID
    // Insert into Vehicle
    // Get the inserted Vehicle ID
   // Update Incident
 $sql = "UPDATE Incident SET Vehicle ID = '$Vehicle ID', People ID = '$People ID',
        Incident date = '$Incident date', Incident report = '$Incident report',
        Offence_ID = '$Offence_ID' WHERE Incident_ID = '\frac{\$Edit_incident_ID';";
 mysqli commit($conn); } Catch () {...}
```

```
new person
// unknown vehicle
// check if the People_licence is already in the database
// If not, use transaction to insert data into tables
try { mysqli_autocommit($conn, false);
    Insert into People
  // Get the inserted People ID
  // Update Incident
  $sql = "UPDATE Incident SET Vehicle ID = NULL,
         People_ID = '$People_ID', Incident_date = '$Incident_date',
         Incident_report = '$Incident_report', Offence_ID = '$Offence_ID'
         WHERE Incident ID = '\$Edit incident ID';");
mysqli_commit($conn); } Catch () {...}
```

```
unknown person
// existing vehicle
  // Update Incident
  $sql = "UPDATE Incident SET Vehicle ID = '$Ex vehicle ID', People ID = NULL,
          Incident date = '$Incident date', Incident report = '$Incident report',
          Offence ID = '$Offence ID' WHERE Incident ID = '$Edit incident ID';";
 // new vehicle
  // Check if the same vehicle licence number is already in the database
 // If not, use transaction to insert data into tables
 try { mysqli autocommit($conn, false);
    // Insert into Vehicle
    // Get the inserted Vehicle ID
    // Update Incident
    $sql = "UPDATE Incident SET Vehicle ID = '$Vehicle ID', People ID = NULL,
           Incident date = '$Incident date', Incident report = '$Incident report',
           Offence ID = '$Offence ID' WHERE Incident ID = '$Edit incident ID';");
 mysqli commit($conn); } Catch () {...}
```

4-7. How it works (offence.php)

Home

People

Vehicle

Report

Offence

Fines

Manage

account



Button onclick = script function page_move();
It submits the form again with different page numbers

4-7. How it works (offence.php)

```
// Select query
$sql 2 = "SELECT * FROM Offence
         WHERE " . $0_category . " LIKE \"%" . $0_search . "%\" AND
         Offence maxFine BETWEEN '\shin' AND '\shan'
         AND Offence maxPoints BETWEEN '$P min' AND '$P max'
         ORDER BY Offence ID ASC LIMIT $start from, $per page record;";
// if Max or P Max is not specified, then it will be set the maximum float value
if ($_POST['max'] != '' && $_POST['max'] != null) {
    Max = POST['max'];
} else {
 // $Max = PHP FLOAT MAX; if PHP 7.2+
    \frac{\text{$Max}}{\text{$max}} = 1.7976931348623E+308;
if ($_POST['p_max'] != '' && $_POST['p_max'] != null) {
    $P max = $_POST['p_max'];
} else {
 // $P max = PHP_FLOAT_MAX; if PHP 7.2+
    $P max = 1.7976931348623E+308;
```

4-7. How it works (off_delete.php)

```
offence.php
function confirmDelete(ID)
window.location.href = "off_delete.php?Offence_ID=".concat(ID)
GET method, each button contains each record's Offence_ID
                                                                     Max Points
                                                                                        Delete
                                                                                                       Edit
                                                                       3
\documents(".\$row["Offence ID"].")'>
                                                                                                       Edit
                                                                       6
                                                                                        Delete
Delete</button>
                                                                                        Delete
                                                                                                       Edit
                                                                       0
                                                                                                       Edit
                                                                                        Delete
                                                                                        Delete
                                                                                                       Edit
                                                                       11
                                                                                                       Edit
                                                                                        Delete
                                                                                                       Edit
                                                                                        Delete
                                                                                                       Edit
off_delete.php
$Offence ID=$ REQUEST['Offence ID'];
$sql = "DELETE FROM Offence WHERE Offence_ID=".$Offence_ID.";";
```



DIS Police DB System

[Admin] Hello, haskins	-
------------------------	---

Change password

Log out

_	\boldsymbol{a}	m	
	u	m	œ.

People

Vehicle

Report

Offence

Fines

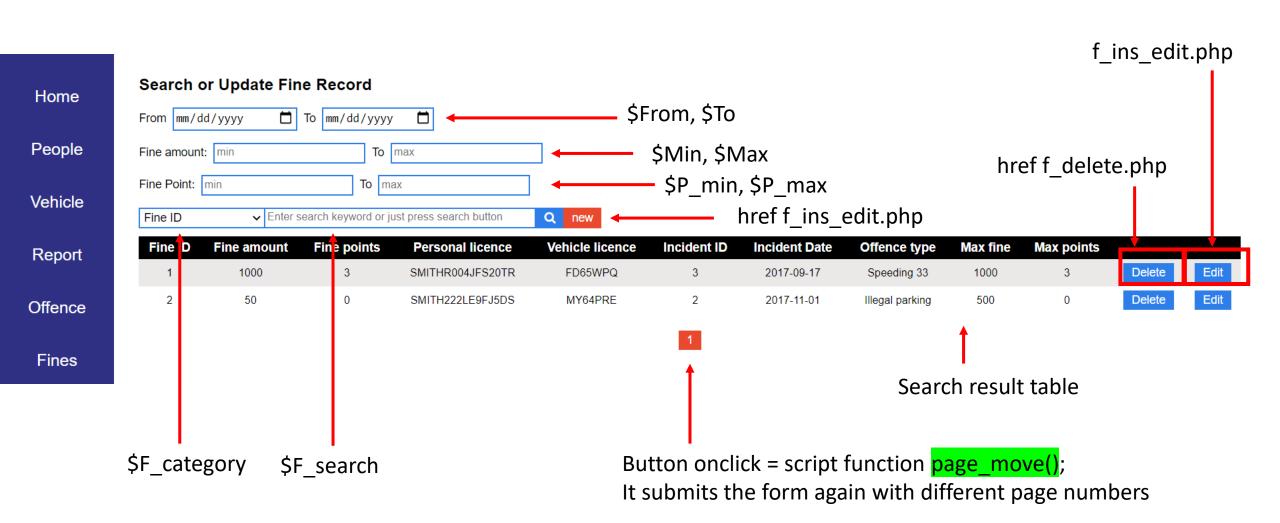
Manage account

nsert	New C	Offence
-------	-------	---------

Description		
Enter Description	—	\$Offence_description
Max fine		
Enter Max Fine	—	\$Offence_maxFine
Max points		
Enter Max Points	-	\$Offence_maxPoints
Submit Cancel		

```
offence.php
function Edit(ID)
window.location.href = "off ins edit.php?Offence ID=".concat(ID).
concat("&&Status=1")
GET method, send selected ID and status=1
                                                                                                 Vehicle type Vehicle colour
                                                                                  Report
off ins edit.php
                                                                                Omph in a 30 limit
                                                                                                  Toyota Prius
                                                                                                              Silver
if (isset($ GET["Offence ID"]) && $ GET["Status"] == 1)
                                                                                                                      Delete
                                                                                                                              Edit
                                                                                Double parked
                                                                                                  Ferrari 458
                                                                                                              Red
                                                                                mph on motorway
                                                                                                  Vauxhall Astra
                                                                                                              Silver
// Get chosen Offence ID and status
                                                                                at a red light - travelling 25mpb
                                                                                                 Honda Civic
                                                                                                              Green
                                                                                                                      Delete
$Edit Offence ID = $ GET["Offence ID"];
                                                                                ing a seatbelt on the M1
                                                                                                                      Delete
                                                                                                 Vauxhall Astra
                                                                                                              Silver
$Status = $ GET["Status"];
// Get other previous input values
$Select query = "SELECT * FROM Offence WHERE
                   Offence ID = '\$Edit Offence ID'";
  $Offence description = $row['Offence description'];
  $Offence maxFine = $row['Offence maxFine'];
  $Offence maxPoints = $row['Offence maxPoints'];
// Update Offence with new input values
$sql = "UPDATE Offence SET Offence description = '$Offence description', Offence maxFine = '$Offence maxFine',
    Offence_maxPoints = '\footnote{\text{Soffence_maxPoints}}' WHERE Offence_ID = '\footnote{\text{Edit_Offence_ID}}'";
```

4-8. How it works (fines.php)



4-8. How it works (fines.php)

```
// Select query
// Natural left join to search fined incident and involved person and vehicle together
$sql 2 = "SELECT * FROM Fines NATURAL LEFT JOIN Incident NATURAL LEFT JOIN People
         NATURAL LEFT JOIN Vehicle NATURAL LEFT JOIN Offence
         where " . $F_category . " LIKE \"%" . $F_search . "%\" // Partial search
         AND Incident date BETWEEN '$From' AND '$To'
         AND Fine amount BETWEEN '$Min' AND '$Max'
         AND Fine points BETWEEN '$P min' AND '$P max'
         ORDER BY Fine ID ASC LIMIT $start from, $per page record;"; // Pagination
// if Max or P max is not specified, then it will be set the maximum float value
if ($ POST['max'] != '' && $ POST['max'] != null) {
    Max = POST['max'];
} else {
// $Max = PHP FLOAT MAX; if PHP 7.2+
    \frac{\text{$Max}}{\text{$max}} = 1.7976931348623E+308;
// $P max -> same
// if To date is not specified, then it will be set today's date
if ($ POST['to'] != '' && $ POST['to'] != null) {
    $To = $ POST['to'];
    } else {
    $To = date("Y-m-d");
```

4-8. How it works (f_delete.php)

fines.php

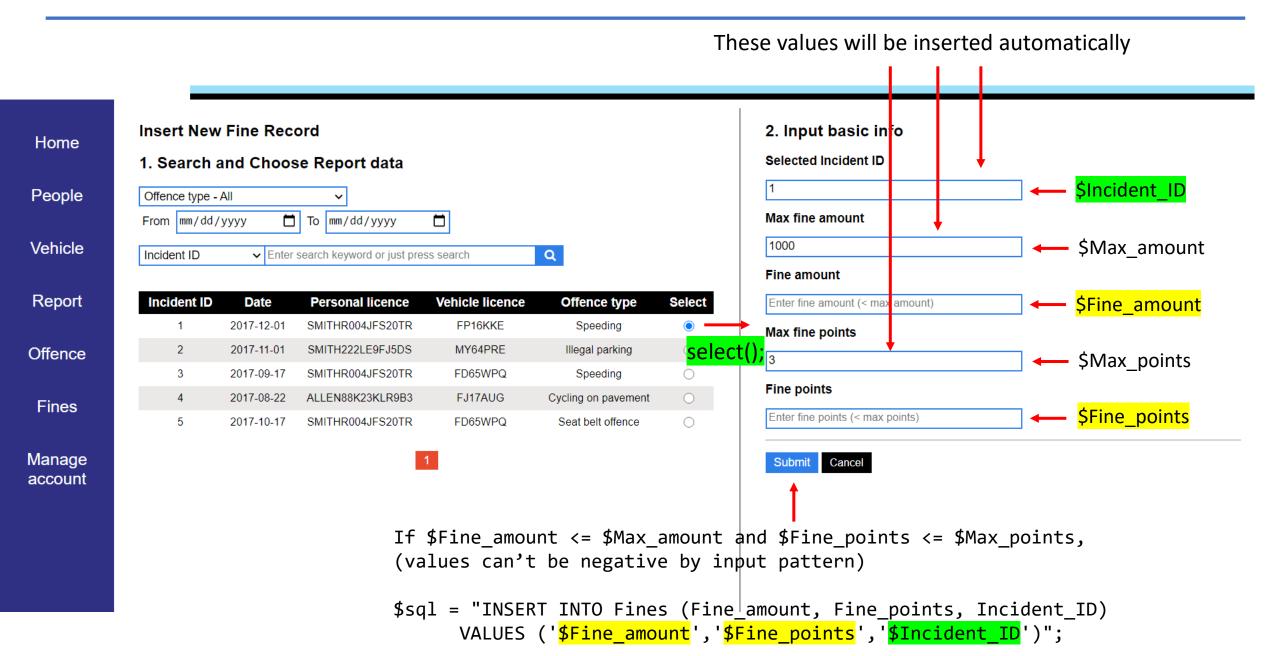
```
function confirmDelete(ID)
window.location.href = "f_delete.php?Fine_ID=".concat(ID)

GET method, each button contains each record's Fine_ID

Fine_ID"].")'>
Delete</button>
```

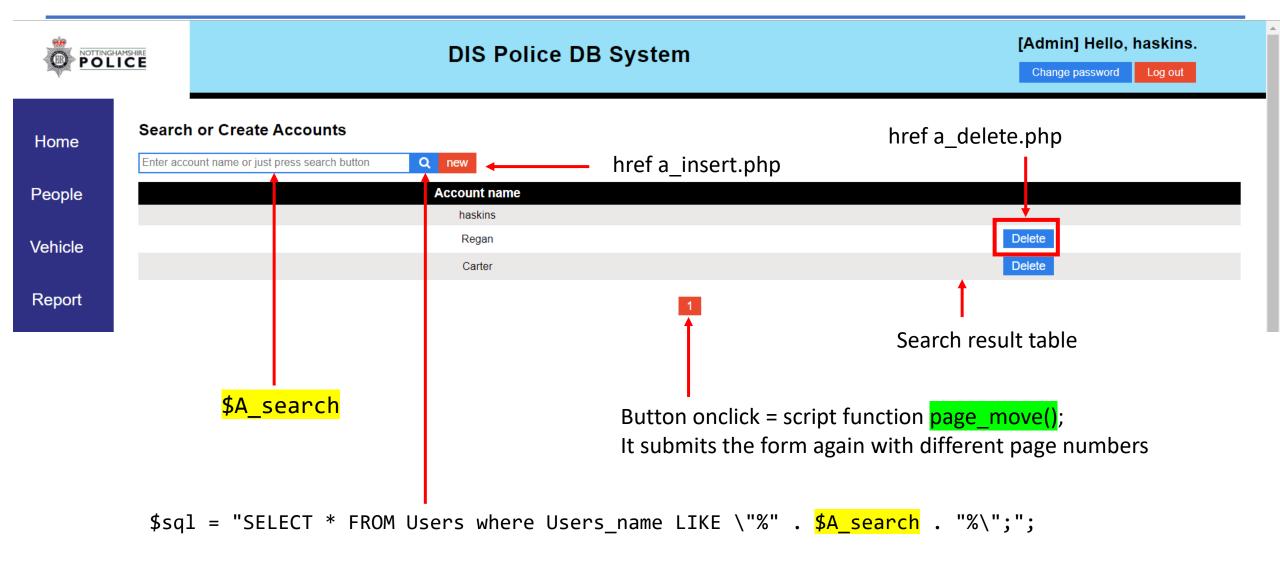
```
eeding 33 1000 3 Delete Edit
gal parking 500 0 Delete Edit
```

```
f_delete.php
$Fine_ID=$_REQUEST['Fine_ID'];
$sql = "DELETE FROM Fines WHERE Fine_ID=".$Fine_ID.";";
```



```
fines.php
function Edit(ID)
window.location.href = "f ins edit.php?Fine ID=".concat(ID).
concat("&&Status=1")
GET method, send selected ID and status=1
                                                                                            Max points
                                                                                      Max fine
f ins edit.php
if (isset($ GET["Fine ID"]) && $ GET["Status"] == 1)
                                                                                       500
                                                                              ial parking
// Get chosen Fine ID and status
  $Edit_fine_ID = $_GET["Fine_ID"];
  $Status = $ GET["Status"];
// Get other previous input values
$Select query = "SELECT * FROM Fines NATURAL LEFT JOIN Incident NATURAL LEFT JOIN Offence
                WHERE Fine ID = '$Edit fine ID';";
$Fine_amount = trim($row['Fine_amount']);
$Fine points = trim($row['Fine_points']);
$Max amount = $row['Offence_maxFine'];
$Max points = $row['Offence maxPoints'];
$Incident ID = $row['Incident ID'];
// Update Fines with new input values
$sql = "UPDATE Fines SET Fine_amount = '$Fine_amount', Fine_points = '$Fine_points',
            Incident_ID = '$Incident_ID' WHERE Fine_ID = '$Edit_fine_ID';";
```

4-9. How it works (accounts.php)



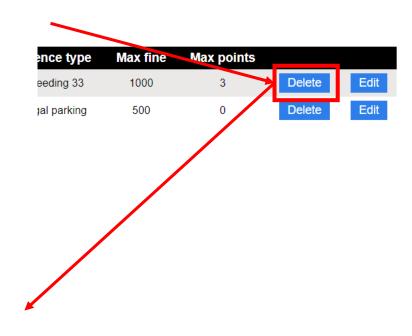
4-9. How it works (a_delete.php)

accounts.php

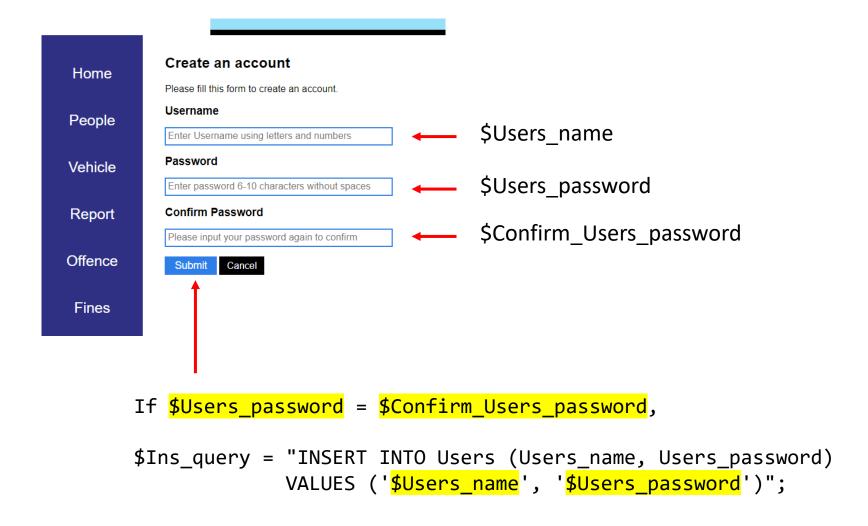
```
function confirmDelete(ID)
window.location.href = "a_delete.php?Users_ID=".concat(ID)

GET method, each button contains each record's Users_ID

"Users_ID"].")'>
Delete</button>
```



```
a_delete.php
$Users_ID=$_REQUEST['Users_ID'];
$sql = "DELETE FROM Users WHERE Users_ID=".$Users_ID.";";
```



That's all!