

Logcall.php Continued

Step 1: Insert the following highlighted code

```
5 <title>Police Emergency Service System</title>
6 <link href="headerstyle.css" rel="stylesheet" type="text/css">
7 <!-- Put in your own css file as shown above -->
8 </head>
9
10 <body>
11 <script>
12 function anymeaningfulname()
13 {
14     var x=document.forms["frmLogCall"]["callerName"].value;
15     if (x==null || x=="")
16     {
17         alert("Caller Name is required.");
18         return false;
19     }
20     // may add code for validating other inputs
21 }
22 </script>
23 <?php require 'nav.php';?> <!-- menu bar code -->
24 <?php require 'db_config.php'; //database details
25 //create database connection
26 $mysqli = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_DATABASE);
27 //Check connection
28 if ($mysqli->connect_errno)
29 {
30     die("Unable to connect to Database: ".$mysqli->connect_errno);
31 }
32
33 $sql = "SELECT * FROM incidenttype";
34 //Test sql command in $sql, if error display error msg and exit.
```

Step 2:

Test it out, click submit when there is no name.



Step 3: Do validation for all textfields.

Check in your mysql program that you have this!

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible, including the 'pessdb' database which contains tables like 'patrolcar_status'. The main window is titled 'Table: patrolcar_status' and displays the results of the query 'SELECT * FROM `patrolcar_status`'. The results show four rows of data:

patrolcar_status_id	patrolcar_status_desc
1	Dispatched
2	Patrol
3	Free
4	Arrived

Below the table, there are buttons for 'Edit', 'Copy', 'Delete', 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'.

Update the data in patrol car status table if necessary! Try to have a few patrol cars with status 2 and status 3.

Steps to create the dispatch screen

Step 1: Go to dreamweaver. File > New > Create a New HTML File.

Step 2: Insert the following code.

```
1  <!doctype html>
2  <html>
3  <head>
4  <meta charset="utf-8">
5  <title>Police Emergency Service System</title>
6  </head>
7  <body>
8  <!-- display the incident infomation passed from logcall.php -->
9  <form name="form1" method="post" action="<?php echo htmlentities($_SERVER['PHP_SELF']); ?> ">
10 <table>
11 <tr>
12   <td colspan="2">Incident Detail</td>
13 </tr>
14 <tr>
15   <td>Caller's Name :</td>
16 <td><?php echo $_POST['callerName'] ?>
17   <input type="hidden" name="callerName" id="callerName"
18   value="<?php echo $_POST['callerName'] ?>"></td>
19 </tr>
20 <tr>
21   <td>Contact No :</td>
22 <td><?php echo $_POST['contactNo']?> <input
23   type="hidden" name="contactNo" id="contactNo"
24   value="<?php echo $_POST['contactNo']?>"></td>
25 </tr>
26 <tr>
27   <td>Location :</td>
28 <td><?php echo $_POST['location'] ?> <input
29   type="hidden" name="location" id="location"
30   value="<?php echo $_POST['location'] ?>"></td>
31 </tr>
32 <tr>
33   <td>Incident Type :</td>
34 <td><?php echo $_POST['incidentType'] ?> <input
35   type="hidden" name="incidentType" id="incidentType"
36   value="<?php echo $_POST['incidentType'] ?>"></td>
37 </tr>
38 <tr>
39   <td>Description :</td>
40 <td><textarea name="incidentDesc" cols="45"
41   rows="5" readonly id="incidentDesc"><?php echo $_POST['incidentDesc'] ?></textarea>
42   <input name="incidentDesc" type="hidden"
43   id="incidentDesc" value="<?php echo $_POST['incidentDesc'] ?>"></td>
44 </tr>
45 </table>
46 </form>
```

Save the file as dispatch.php into C:\xampp\htdocs\pess folder!

Step 4: Test it out by launching logcall.php, enter some sample data and click on the Process call button!

localhost/pessv1/logacall1.php



**POLICE EMERGENCY
SERVICE SYSTEM**

Log Call Update Report History

Log Call

Caller's Name :	Annoymas
Contact No :	12345678
Location :	ITE College Central
Incident Type :	Fallen Tree
Description :	A tree has fallen in front of the school!
<input type="button" value="Reset"/> <input type="button" value="Process Call"/>	

Do you get this?

Incident Detail

Caller's Name : Annoymas

Contact No : 12345678

Location : ITE College Central

Incident Type : 050

A tree has fallen in front of the school!

Description :

Step 5: Have you put in the codes for the menu bar? If not, pls put in now!

You will get this! According to your own banner and your own menu!



**POLICE EMERGENCY
SERVICE SYSTEM**

Log Call Update Report History

Incident Detail

Caller's Name : Annoymas

Contact No : 12345678

Location : ITE College Central

Incident Type : 050

Description :

A tree has fallen in front of the school!

Step 6: Insert the following code. Refresh the above dispatch.php page with data displayed again. Make sure that there is no errors.

```
53  </table>
54  <?php
55 // connect to a database
56 require_once 'db_config.php';
57
58 // create database connection
59 $mysqli = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_DATABASE);
60 // Check connection
61 if ($mysqli->connect_errno) {
62     die("Failed to connect to MySQL: ".$mysqli->connect_errno);
63 }
64
65 // retrieve from patrolcar table those patrol cars that are 2:Patrol or 3:Free
66 $sql = "SELECT patrolcarId, statusDesc FROM patrolcar JOIN patrolcar_status
67 ON patrolcar.patrolcarStatusId=patrolcar_status.StatusId
68 WHERE patrolcar.patrolcarStatusId='2' OR patrolcar.patrolcarStatusId='3'";
69
70 if (!$stmt = $mysqli->prepare($sql)) {
71     die("Prepare failed: ".$mysqli->errno);
72 }
73
74 if (!$stmt->execute()) {
75     die("Execute failed: ".$stmt->errno);
76 }
77
78 if (!$resultset = $stmt->get_result()) {
79     die("Getting result set failed: ".$stmt->errno);
80 }
81
82 $patrolcarArray;
83
84 while ($row = $resultset->fetch_assoc()) {
85     $patrolcarArray[$row['patrolcarId']] = $row['statusDesc'];
86 }
87
88 $stmt->close();
89
90 $resultset->close();
91
92 $mysqli->close();
93 ?>
94 </form>
95 </body>
96 </html>
```

Step 7: Insert the following code at the shown location in dispatch.php.

```
74 ▼ if (!$stmt->execute()) {
75     die("Execute failed: ".$stmt->errno);
76 }
77
78 ▼ if (!$resultset = $stmt->get_result()) {
79     die("Getting result set failed: ".$stmt->errno);
80 }
81
82 $patrolcarArray;
83
84 ▼ while ($row = $resultset->fetch_assoc()) {
85     $patrolcarArray[$row['patrolcarId']] = $row['statusDesc'];
86 }
87
88 $stmt->close();
89
90 $resultset->close();
91
92 $mysqli->close();
93 ?>
94
95 ▼ <!-- populate table with patrol car data -->
96 <br><br><table border="1" align="center">
97 ▼   <tr>
98     <td colspan="3">Dispatch Patrolcar Panel</td>
99   </tr>
100 ▼   <?php
101     foreach($patrolcarArray as $key=>$value){
102     ?>
103     <tr>
104       <td><input type="checkbox" name="chkPatrolcar[]" value="<?php echo $key?>"></td>
105       <td><?php echo $key ?></td>
106       <td><?php echo $value ?></td>
107     </tr>
108     <?php } ?>
109     <tr>
110       <td><input type="reset" name="btnCancel" id="btnCancel" value="Reset"></td>
111       <td colspan="2">&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp<input type="submit" name="btnDispatch" id="btnDispatch" value="Dispatch">
112     </td>
113   </tr>
114 </table>
115 </form>
116
117 </body>
```

Run and refresh the dispatch.php page. Make that you can see the following. Double check with your mysql patrol car table that the car information and their status is correct!

The screenshot shows a web application titled "POLICE EMERGENCY SERVICE SYSTEM". At the top, there are two circular profile icons of police officers. Below the title is a navigation bar with links: "Log Call", "Update", "Report", and "History".

The main content area contains two tables:

- Incident Detail** table:

Incident Detail		
Caller's Name :	Annoymas	
Contact No :	12345678	
Location :	ITE College Central	
Incident Type :	030	
Description :	Test	
- Dispatch Patrolcar Panel** table:

Dispatch Patrolcar Panel		
<input type="checkbox"/>	QX1234A	Free
<input type="checkbox"/>	QX3456B	Free
<input type="checkbox"/>	QX1111J	Patrol
Reset	Dispatch	

Dispatch.php Continued (30/4/2020)

Step 8: Insert the following **highlighted** code at the shown location in dispatch.php.

```
5  <title>Police Emergency Service System</title>
6    <link href="headerstyle.css" rel="stylesheet" type="text/css">
7  </head>
8  <body>
9  <?php require_once 'nav.php'; ?>
10
11 <?php // if post back
12 if (isset($_POST["btnDispatch"]))
13 {
14   require_once 'db_config.php';
15
16   // create database connection
17   $mysqli = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_DATABASE);
18   // Check connection
19   if ($mysqli->connect_errno)
20   {
21     die("Failed to connect to MySQL: ".$mysqli->connect_errno);
22   }
23
24   $patrolcarDispatched = $_POST["chkPatrolcar"]; // array of patrolcar being dispatched from post back
25   $numOfPatrocarDispatched = count($patrolcarDispatched);
26
27   // insert new incident
28   $incidentStatus;
29   if ($numOfPatrocarDispatched > 0) {
30     $incidentStatus='2'; // incident status to be set as Dispatched
31   } else {
32     $incidentStatus='1'; // incident status to be set as Pending
33   }
34
35   $sql = "INSERT INTO incident (callerName, phoneNumber, incidentTypeId, incidentLocation, incidentDesc,
36   incidentStatusId) VALUES (?, ?, ?, ?, ?, ?)";
37
38   if (!$stmt = $mysqli->prepare($sql))
39   {
40     die("Prepare failed: ".$mysqli->errno);
41   }
42
43   if (!$stmt->bind_param('ssssss',
44                           $_POST['callerName'],
45                           $_POST['contactNo'],
46                           $_POST['incidentType'],
47                           $_POST['location'],
48                           $_POST['incidentDesc'],
49                           $incidentStatus))
```

```

24 $patrolcarDispatched = $_POST["chkPatrolcar"]; // array of patrolcar being dispatched from post back
25 $numOfPatrocarDispatched = count($patrolcarDispatched);
26
27 // insert new incident
28 $incidentStatus;
29 ▼ if ($numOfPatrocarDispatched > 0) {
30     $incidentStatus='2'; // incident status to be set as Dispatched
31 ▼ } else {
32     $incidentStatus='1'; // incident status to be set as Pending
33 }
34
35 $sql = "INSERT INTO incident (callerName, phoneNumber, incidentTypeId, incidentLocation, incidentDesc,
36                             incidentStatusId) VALUES (?, ?, ?, ?, ?, ?)";
37
38 if (!$stmt = $mysqli->prepare($sql))
39 {
40     die("Prepare failed: ".$mysqli->errno);
41 }
42
43 if (!$stmt->bind_param('ssssss',
44                         $_POST['callerName'],
45                         $_POST['contactNo'],
46                         $_POST['incidentType'],
47                         $_POST['location'],
48                         $_POST['incidentDesc'],
49                         $incidentStatus))
50 ▼ {
51     die("Binding parameters failed: ".$stmt->errno);
52 }
53
54 if (!$stmt->execute())
55 {
56     die("Insert incident table failed: ".$stmt->errno);
57 }
58
59 $stmt->close();
60
61 $mysqli->close();
62
63 } ?>
64

```

Step 9:

- Reload the logcall.php,
- Complete it with some details,
- Click on the process button to go to the dispatch.php page as shown below.

Log Call	
Caller's Name :	John
Contact No :	12345678
Location :	AMK Central
Incident Type :	Fallen Tree
Description :	A tree fell on the road and obstructed traffic.
<input type="button" value="Reset"/>	<input type="button" value="Process Call"/>

Incident Detail	
Caller's Name :	John
Contact No :	12345678
Location :	AMK Central
Incident Type :	050
Description :	A tree fell on the road and obstructed traffic.

Dispatch Patrolcar Panel		
<input type="checkbox"/>	QX1234A	Free
<input type="checkbox"/>	QX3456B	Free
<input type="checkbox"/>	QX1111J	Patrol
Reset	Dispatch	

Step 10

- Select a Free patrol car
- Click on the Dispatch button as shown as an example in the next page.

Incident Detail	
Caller's Name :	John
Contact No :	12345678
Location :	AMK Central
Incident Type :	050
Description :	A tree fell on the road and obstructed traffic.

Dispatch Patrolcar Panel		
<input checked="" type="checkbox"/>	QX1234A	Free
<input type="checkbox"/>	QX3456B	Free
<input type="checkbox"/>	QX1111J	Patrol
<input type="button" value="Reset"/>		<input type="button" value="Dispatch"/>

Step 11:

- Go to mysql incident table and check that all the details of the incident has been saved!

Showing rows 0 - 0 (1 total, Query took 0.0008 seconds.)

SELECT * FROM `incident`

incidentId	callerName	phoneNumber	incidentTypeId	incidentLocation	incidentDesc	incidentStatusId	timeCalled
164	John	12345678	050	AMK Central	A tree fell on the road and obstructed traffic.	2	2020-04-29 21:19:33

Remember to check the timestamp under timeCalled! It should be accurate with your computer time!

Step 12:

- Insert the highlighted code in dispatch.php.

```
45
46
47
48
49
50 ▼    {
51     die("Binding parameters failed: ".$stmt->errno);
52 }
53
54 if (!$stmt->execute())
55 ▼{
56     die("Insert incident table failed: ".$stmt->errno);
57 }
58
59 ▼    // retrieve incident_id for the newly inserted incident
60 $incidentId=mysqli_insert_id($mysqli);
61
62 // update patrolcar status table and add into dispatch table
63 for($i=0; $i < $numOfPatrocarDispatched; $i++)
64 {
65     // update patro car status
66     $sql = "UPDATE patrolcar SET patrolcarStatusId ='1' WHERE patrolcarId = ?";
67
68 ▼    if (!$stmt = $mysqli->prepare($sql)) {
69         die("Prepare failed: ".$mysqli->errno);
70     }
71
72 ▼    if (!$stmt->bind_param('s', $patrolcarDispatched[$i])){
73         die("Binding parameters failed: ".$stmt->errno);
74     }
75
76 ▼    if (!$stmt->execute()) {
77         die("Update patrolcar_status table failed: ".$stmt->errno);
78     }
79
80 // insert dispatch data
81 $sql = "INSERT INTO dispatch (incidentId, patrolcarId, timeDispatched) VALUES (?, ?, NOW())";
82
83 ▼    if (!$stmt = $mysqli->prepare($sql)) {
84         die("Prepare failed: ".$mysqli->errno);
85     }
86
87     if (!$stmt->bind_param('ss', $incidentId,
88                             $patrolcarDispatched[$i])){
89         die("Binding parameters failed: ".$stmt->errno);
90     }
91
92 ▼    if (!$stmt->execute()) {
93         die("Insert dispatch table failed: ".$stmt->errno);
94     }
95
96
97 }
98
99
100 $stmt->close();
101
102 $mysqli->close();
103
104 } ?>
105
```

Step 13:

- Test your code, Run logcall.php, dispatch.php with the following suggested data

The screenshot shows a web-based application interface for logging a call. At the top, there is a dark header bar with four tabs: "Log Call" (which is highlighted in blue), "Update", "Report", and "History". Below the header, the main area is titled "Log Call". The form consists of several input fields and a text area:

Caller's Name :	Richard
Contact No :	87654321
Location :	Changi Beach
Incident Type :	Fallen Tree ▾
Description :	A tree has fallen at the beach and injured an elderly man.
<input type="button" value="Reset"/> <input type="button" value="Process Call"/>	

Step 14:

- Click on a available patrol car.
- Click on dispatch button.

Incident Detail	
Caller's Name :	Richard
Contact No :	87654321
Location :	Changi Beach
Incident Type :	050
Description :	A tree has fallen at the beach and injured an elderly man.

Dispatch Patrolcar Panel		
<input checked="" type="checkbox"/>	QX3456B	Free
<input type="checkbox"/>	QX1111J	Patrol
Reset	Dispatch	

Step 15:

- Notice that the patrol car you selected is now missing!

Incident Detail	
Caller's Name :	Richard
Contact No :	87654321
Location :	Changi Beach
Incident Type :	050
Description :	A tree has fallen at the beach and injured an elderly man.

Dispatch Patrolcar Panel

<input type="checkbox"/>	QX1111J	Patrol
Reset	Dispatch	

Step 16:

Go to your pessdb, dispatch table, check that the patrol car selected earlier is saved into this table.

The screenshot shows the phpMyAdmin interface with the following details:

- Schemas:** Recent, Favorites, information_schema, mysql, performance_schema, pessdb (selected), New, dispatch, incident, incidenttype, incident_status, patrolcar, patrolcar_status, pessdbgd, phpmyadmin, test.
- Query Bar:** SELECT * FROM `dispatch`
- Results:** Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)
- Table Structure:** incidentId, patrolcarId, timeDispatched, timeArrived, timeCompleted
- Row Data:** incidentId: 169, patrolcarId: QX3456B, timeDispatched: 2020-04-30 09:26:57, timeArrived: NULL, timeCompleted: NULL
- Buttons:** Edit, Copy, Delete, Export
- Filters:** Show all (checkbox), Number of rows: 25, Filter rows: Search this table

Step 17:

Go to your pessdb, patrol car status table, check that the status of your patrol car selected earlier is updated as dispatched status ie 1 .

The screenshot shows the MySQL Workbench interface. On the left, the database schema is displayed under the 'pessdb' database, including tables like 'dispatch', 'incident', 'incidenttype', 'incident_status', and 'patrolcar'. On the right, a query results grid shows the output of the query 'SELECT * FROM `patrolcar`'. The results show two rows of data:

patrolcarId	patrolcarStatusId
QX1234A	1
QX3456B	1

We will create an update.php page for the user to update the status of the patrol car.

Step 18: Go to dreamweaver. File > New > Create a New HTML File.

Save your file as update.php in C:\xampp\htdocs.

Insert the following highlighted code in update.php.

```
9 ▼ <body>
10 ▼ <?php require_once 'nav.php'; ?>
11 <br><br>
12 ▼ <?php
13 ▼ if (!isset($_POST["btnSearch"])){
14 ?>
15 <!-- create a form to search for patrol car based on id -->
16 ▼ <form name="form1" method="post" action=<?php echo htmlentities($_SERVER['PHP_SELF']); ?> ">
17 ▼   <table width="50%" border="0" align="center" cellpadding="4" cellspacing="4">
18     <tr></tr>
19 ▼   <tr>
20     <td>Patrol Car ID :</td>
21     <td><input type="text" name="patrolCarId" id="patrolCarId"></td>
22     <td><input type="submit" name="btnSearch" id="btnSearch" value="Search"></td>
23   </tr>
24 </table>
25 </form>
26
27 ▼ <?php }
28
29 //insert the next 2nd part of the code here.
30
31 ?>
32 </body>
33 </html>
```

Check that you get the following screen.



Patrol Car ID :

Step 19: Insert the following highlighted code in update.php from line 29 as shown earlier.

```
~~
27 <?php }
28
29 else
30 { // post back here after clicking the btnSearch button
31 require_once 'db_config.php';
32
33 // create database connection
34 $mysqli = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_DATABASE);
35 // Check connection
36 if ($mysqli->connect_errno) {
37     die("Failed to connect to MySQL: ".$mysqli->connect_errno);
38 }
39
40 // retrieve patrol car detail
41 $sql = "SELECT * FROM patrolcar WHERE patrolcarId = ?";
42
43 if (!$stmt = $mysqli->prepare($sql)){
44     die("Prepare failed: ".$mysqli->errno);
45 }
46
47 if (!$stmt->bind_param('s', $_POST['patrolCarId'])){
48     die("Binding parameters failed: ".$stmt->errno);
49 }
50
51 if (!$stmt->execute()) {
52     die("Execute failed failed: ".$stmt->errno);
53 }
54
55 if (!$resultset = $stmt->get_result()) {
56     die("Getting result set failed: ".$stmt->errno);
57 }
```

```
55 ▼    if (!($resultset = $stmt->get_result())) {
56        die("Getting result set failed: ".$stmt->errno);
57    }
58
59 ▼    // if the patrol car does not exist, redirect back to update.php
60 ▼    if ($resultset->num_rows == 0) {
61        ?
62            <script>window.location="update.php";</script>
63        ?php }
64
65    // else if the patrol car found
66    $patrolCarId;
67    $patrolCarStatusId;
68
69 ▼    while ($row = $resultset->fetch_assoc()) {
70        $patrolCarId = $row['patrolcarId'];
71        $patrolCarStatusId = $row['patrolcarStatusId'];
72    }
73
74    // retrieve from patrolcar_status table for populating the combo box
75    $sql = "SELECT * FROM patrolcar_status";
76 ▼    if (!$stmt = $mysqli->prepare($sql)) {
77        die("Prepare failed: ".$mysqli->errno);
78    }
79
80 ▼    if (!$stmt->execute()) {
81        die("Execute failed: ".$stmt->errno);
82    }
83
84 ▼    if (!($resultset = $stmt->get_result())) {
85        die("Getting result set failed: ".$stmt->errno);
86    }
87
88    $patrolCarStatusArray;; // an array variable
89
```

```

84 ▼     if (!$resultset = $stmt->get_result()) {
85         die("Getting result set failed: ".$stmt->errno);
86     }
87
88     $patrolCarStatusArray;; // an array variable
89
90 ▼     while ($row = $resultset->fetch_assoc()) {
91         $patrolCarStatusArray[$row['statusId']] = $row['statusDesc'];
92     }
93
94     $stmt->close();
95
96     $resultset->close();
97
98     $mysqli->close();
99 ?>
100
101
102 <?php } ?>
103
104 </body>
105 </html>

```

Step 20:

- Load the update.php into your web browser. Make sure that there are no errors especially typographical errors.
- Key in a patrol car that is NOT in your database and click on the search button. (Shown in Fig 20.1)
- Check that the update.php will be redirected back to itself! (Shown in Fig 20.2)



Fig 20.1



Fig 20.2

Step 21:

Insert the following highlighted code into update.php.

```

100
101 <!-- display a form for operator to update status of patrol car -->
102 <form name="form2" method="post" action="php echo htmlentities($_SERVER['PHP_SELF']); ?&gt; &gt;
103
104 &lt;table width="50%" border="0" align="center" cellpadding="4" cellspacing="4"&gt;
105   &lt;tr&gt;&lt;/tr&gt;
106   &lt;tr&gt;
107     &lt;td&gt;ID :&lt;/td&gt;
108     &lt;td&gt;&lt;?php echo $patrolCarId ?&gt;
109       &lt;input type="hidden" name="patrolCarId" id="patrolCarId"
110       value="&lt;?php echo $patrolCarId ?&gt;"&gt;
111     &lt;/td&gt;
112   &lt;/tr&gt;
113   &lt;tr&gt;
114     &lt;td&gt;Status :&lt;/td&gt;
115     &lt;td&gt;&lt;select name="patrolCarStatus" id="patrolCarStatus"&gt;
116       &lt;?php foreach( $patrolCarStatusArray as $key =&gt; $value){ ?&gt;
117         &lt;option value="&lt;?php echo $key ?&gt;"&gt;
118           &lt;?php if ($key==$patrolCarStatusId) {?&gt; selected="selected"
119           &lt;?php }?&gt;
120         &gt;
121           &lt;?php echo $value ?&gt;
122         &lt;/option&gt;
123       &lt;?php } ?&gt;
124     &lt;/select&gt;&lt;/td&gt;
125   &lt;/tr&gt;
126   &lt;tr&gt;
127     &lt;td&gt;&lt;input type="reset" name="btnCancel" id="btnCancel" value="Reset"&gt;&lt;/td&gt;
128     &lt;td&gt;&ampnbsp;&ampnbsp;&ampnbsp;&ampnbsp;&ampnbsp;&ampnbsp;&ampnbsp;&lt;input
129       type="submit" name="btnUpdate" id="btnUpdate" value="Update"&gt;
130     &lt;/td&gt;
131   &lt;/tr&gt;
132 &lt;/table&gt;
133 &lt;/form&gt;
134 &lt;?php } ?&gt;
135 &lt;/body&gt;
136 &lt;/html&gt;</pre

```

Step 22:

- Load the update.php in your browser again.
- Key in a valid patrol car as shown in Fig 22.1
- Notice that the status of the patrol car is correct and according to the patrol car table and patrol car status table!

Patrol Car ID :

Fig 22.1

ID : QX5555D
Status :

Fig 22.2

Step 23:

Insert the following highlighted code into <head></head> of update.php.

```
5  <title>Police Emergency Service System</title>
6  ▼ <?php
7  ▼ if (isset($_POST["btnUpdate"])){
8
9    require_once 'db_config.php';
10
11   // create database connection
12   $mysqli = mysqli_connect(DB_SERVER, DB_USER, DB_PASSWORD, DB_DATABASE);
13   // Check connection
14  ▼ if ($mysqli->connect_errno) {
15    die("Failed to connect to MySQL: ".$mysqli->connect_errno);
16  }
17
18   // update patrol car status
19   $sql = "UPDATE patrolcar SET patrolcarStatusId = ? WHERE patrolcarId = ? ";
20
21  ▼ if (!$stmt = $mysqli->prepare($sql)) {
22    die("Prepare failed: ".$mysqli->errno);
23  }
24
25  ▼ if (!$stmt->bind_param('ss', $_POST['patrolCarStatus'], $_POST['patrolCarId'])){
26    die("Binding parameters failed: ".$stmt->errno);
27  }
28
29  ▼ if (!$stmt->execute()) {
30    die("Update patrolcar table failed: ".$stmt->errno);
31  }
32
33   // if patrol car status is Arrived (4) then capture the time of arrival
34  ▼ if ($_POST["patrolCarStatus"] == '4'){
35
36    $sql = "UPDATE dispatch SET timeArrived = NOW()
37          WHERE timeArrived is NULL AND patrolcarId = ?";
38
39  ▼ if (!$stmt = $mysqli->prepare($sql)) {
40    die("Prepare failed: ".$mysqli->errno);
41  }
```

```

26     die("Binding parameters failed: ".$stmt->errno);
27 }
28
29 ▼ if (!$stmt->execute()) {
30     die("Update patrolcar table failed: ".$stmt->errno);
31 }
32
33 // if patrol car status is Arrived (4) then capture the time of arrival
34 ▼ if ($_POST["patrolCarStatus"] == '4'){
35
36     $sql = "UPDATE dispatch SET timeArrived = NOW()
37             WHERE timeArrived is NULL AND patrolcarId = ?";
38
39 ▼ if (!($stmt = $mysqli->prepare($sql))) {
40     die("Prepare failed: ".$mysqli->errno);
41 }
42
43 ▼ if (!$stmt->bind_param('s', $_POST['patrolCarId'])){
44     die("Binding parameters failed: ".$stmt->errno);
45 }
46
47 ▼ if (!$stmt->execute()) {
48     die("Update dispatch table failed: ".$stmt->errno);
49 }
50
51 }
52 $stmt->close();
53
54 $mysqli->close();
55
56 ?>
57
58 <script>window.location="logcall.php";</script>
59
60 ▼ <?php } ?>
61 </head>

```

Step 24:

Load update.php, key in a “Dispatched” valid patrol car ID and click on search button.

Check your mysql patrol car table for a list of valid patrol cars as shown below.

Patrol Car ID :

The following screen will appear.

ID : QX5555D

Status : Dispatched ▼

Change the patrol car status to Arrived and click on update.

ID : QX5555D

Status : Arrived ▼

Check that your patrol car status had been updated to 4 in patrol car table in mysql as shown below.

<input type="button" value="←"/> <input type="button" value="→"/>	<input type="button" value="▼"/>	patrolcarId	patrolcarStatusId
<input type="checkbox"/>  Edit  Copy  Delete		QX1234A	2
<input type="checkbox"/>  Edit  Copy  Delete		QX3456B	2
<input type="checkbox"/>  Edit  Copy  Delete		QX1111J	4
<input type="checkbox"/>  Edit  Copy  Delete		QX2222K	2
<input type="checkbox"/>  Edit  Copy  Delete		QX5555D	4

Check that your distpatch table has been updated with updated arrival time.

+ Options						
	incidentId	patrolcarId	timeDispatched	timeArrived	timeCompleted	
<input type="checkbox"/> Edit Copy Delete	174	QX5555D	2020-05-05 13:41:36	2020-05-05 13:44:21	NULL	
<input type="checkbox"/> Check all With selected: Edit Copy Delete Export						

Step 25:

Insert the highlighted in the right place in update.php.

```
47 ▼      if (!$stmt->execute()) {
48        die("Update dispatch table failed: ".$stmt->errno);
49    }
50
51 ▼ } else if ($_POST["patrolCarStatus"] == '3'){ // else if patrol car status is FREE (3) then capture the time of completion
52
53    // First, retrieve the incident ID from dispatch table handled by that patrol car
54    $sql = "SELECT incidentId FROM dispatch WHERE timeCompleted IS NULL AND patrolcarId = ?";
55
56 ▼ if (!$stmt = $mysqli->prepare($sql)) {
57        die("Prepare failed: ".$mysqli->errno);
58    }
59
60 ▼ if (!$stmt->bind_param('s', $_POST['patrolCarId'])){
61        die("Binding parameters failed: ".$stmt->errno);
62    }
63
64 ▼ if (!$stmt->execute()) {
65        die("Execute failed failed: ".$stmt->errno);
66    }
67
68 ▼ if (!$resultset = $stmt->get_result()) {
69        die("Getting result set failed: ".$stmt->errno);
70    }
71
72    $incidentId;
73
74
75    while ($row = $resultset->fetch_assoc()) {
76        $incidentId = $row['incidentId'];//here
77    }
78
79    // next update dispatch table
80    $sql = "UPDATE dispatch SET timeCompleted = NOW()
81                  WHERE timeCompleted is NULL AND patrolcarId = ?";
82
83    if (!$stmt = $mysqli->prepare($sql)) {
84        die("Prepare failed: ".$mysqli->errno);
85    }
86
87    if (!$stmt->bind_param('s', $_POST['patrolCarId'])){
88        die("Binding parameters failed: ".$stmt->errno);
89    }
90
91    if (!$stmt->execute()) {
92        die("Update dispatch table failed: ".$stmt->errno);
93    }
94
95    // last but not least, update incident table to completed (3) all patrol car attended to it are FREE now
96
97    $sql = "UPDATE incident SET incidentStatusId = '3' WHERE incidentId = '$incidentId'
98                  AND NOT EXISTS (SELECT * FROM dispatch WHERE timeCompleted IS NULL AND incidentId = '$incidentId')";
```

```

83         die("Prepare failed: ".$mysqli->errno);
84     }
85
86     if (!$stmt->bind_param('s', $_POST['patrolCarId'])){
87         die("Binding parameters failed: ".$stmt->errno);
88     }
89
90     if (!$stmt->execute()) {
91         die("Update dispatch table failed: ".$stmt->errno);
92     }
93
94     // last but not least, update incident table to completed (3) all patrol car attended to it are FREE now
95
96     $sql = "UPDATE incident SET incidentStatusId = '3' WHERE incidentId = '$incidentId'
97     AND NOT EXISTS (SELECT * FROM dispatch WHERE timeCompleted IS NULL AND incidentId = '$incidentId')";
98
99
100    if (!$stmt = $mysqli->prepare($sql)) {
101        die("Prepare failed 11: ".$mysqli->errno);
102    }
103
104    if (!$stmt->execute()) {
105        die("Update dispatch table failed: ".$stmt->errno);
106    }
107
108    $resultset->close();
109
110    $stmt->close();
111
112    $mysqli->close();
113

```

Step 26: Do the following steps to test all the necessary steps of the PESS system!

- Load the logcall.php from your local host on your browser as shown below.

Caller's Name :	<input type="text"/>
Contact No :	<input type="text"/>
Location :	<input type="text"/>
Incident Type :	<input type="text"/> Loan shark
Description :	<input type="text"/>
<input type="button" value="Reset"/> <input type="button" value="Process Call"/>	

- Fill in all the necessary data as shown below and click on Process call button.

Caller's Name :	Jane Chen
Contact No :	62320934
Location :	HDB hub
Incident Type :	Fire ▼
Description :	A fire broke out at a shop.
<input type="button" value="Reset"/>	<input type="button" value="Process Call"/>

- Make sure that the data is passed over correctly to the next screen. Select a patrol car which has a “Free” status! As shown below! Click on the Dispatch button.

Incident Detail	
Caller's Name :	Jane Chen
Contact No :	62320934
Location :	HDB hub
Incident Type :	010
Description :	A fire broke out at a shop.

Dispatch Patrolcar Panel		
<input checked="" type="checkbox"/>	QX1234A	Free
<input type="checkbox"/>	QX3456B	Patrol
<input type="checkbox"/>	QX2222K	Patrol
<input type="checkbox"/>	QX5555D	Free
<input type="checkbox"/>	QX8769P	Patrol
<input type="checkbox"/>	QX8923T	Patrol
<input type="button" value="Reset"/>		<input type="button" value="Dispatch"/>

- Observe that the previously selected car of QX1234A has disappeared from the list of available patrol cars! As shown below!

Dispatch Patrolcar Panel		
<input type="checkbox"/>	QX3456B	Patrol
<input type="checkbox"/>	QX2222K	Patrol
<input type="checkbox"/>	QX5555D	Free
<input type="checkbox"/>	QX8769P	Patrol
<input type="checkbox"/>	QX8923T	Patrol
Reset	Dispatch	

- Observe that the updates in the incident, dispatch and patrol car tables! Patrol car status is now 1 meaning dispatched status!

Server: 127.0.0.1 » Database: pessdb » Table: dispatch

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privilege](#)

Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

```
SELECT * FROM `dispatch`
```

Profiling [[Edit inline](#)]

Show all | Number of rows: 25 Filter rows:

+ Options [Edit](#) [Copy](#) [Delete](#)

	incidentId	patrolcarId	timeDispatched	timeArrived	timeCompleted
<input type="checkbox"/>	179	QX1234A	2020-05-05 22:16:33	NULL	NULL

[Edit](#) [Copy](#) [Delete](#) [Export](#)

Show all | Number of rows: 25 Filter rows:

Server: 127.0.0.1 » Database: pessdb » Table: incident

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.) [timeCalled: 2020-05-05 22:16:33... - 2020-05-05 22:16:33...]

```
SELECT * FROM `incident` ORDER BY `timeCalled` DESC
```

Show all Number of rows: 25 Filter rows: Search this table

+ Options

incidentId	callerName	phoneNumber	incidentTypeId	incidentLocation	incidentDesc	incidentStatusId	timeCalled
179	Jane Chen	62320934	010	HDB hub	A fire broke out at a shop.	2	2020-05-05 22:16:33

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table

Server: 127.0.0.1 » Database: pessdb » Table: patrolcar

Browse Structure SQL Search Insert

Showing rows 0 - 9 (10 total, Query took 0.0010 seconds.)

```
SELECT * FROM `patrolcar`
```

Show all Number of rows: 25 Filter rows: Search t

+ Options

patrolcarId	patrolcarStatusId
QX1234A	1

Edit Copy Delete

- Go to update.php now! And key in the patrol car ID of the previously selected car! As shown below!



Patrol Car ID :

- Click on the Search button! And make sure that the correct status of the patrol car is displayed!

ID : QX1234A

Status :

- Change the status from “Dispatched” to “Arrived” and click on the Update button! Check the incident, dispatch, patrolcar tables in mysql as shown below! Notice the timeArrived time in dispatch time now! Notice the updates in the incident and patrol car tables!

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1
- Database:** pessdb
- Table:** dispatch
- Toolbar:** Browse (selected), Structure, SQL, Search, Insert, Export, Import, Privileges.
- Message Bar:** Showing rows 0 - 0 (1 total, Query took 0.0012 seconds.)
- SQL Editor:** SELECT * FROM `dispatch`
- Table View:** A single row is displayed with the following columns and values:

	incidentId	patrolcarId	timeDispatched	timeArrived	timeCompleted
<input type="checkbox"/>	179	QX1234A	2020-05-05 22:16:33	2020-05-05 22:30:17	NULL
- Bottom Controls:** Options (+), Edit, Copy, Delete.

The screenshot shows a MySQL Workbench interface for updating a row in a table. The table has columns: incidentId, callerName, phoneNumber, incidentTypeId, incidentLocation, incidentDesc, incidentStatusId, and timeCalled. The current row being edited is for incidentId 179, callerName Jane Chen, phoneNumber 62320934, incidentLocation HDB hub, incidentDesc A fire broke out at a shop. 2, incidentStatusId 2, and timeCalled 2020-05-05 22:16:33. The status dropdown is set to 'Arrived'. The update button is visible at the bottom.

- Now go back to update page. Enter the same patrol car ID and update the status of the patrol car from "Arrived" to "Free"! Click the Update button!

ID :	QX1234A
Status :	<input style="width: 100px; height: 25px; border: 1px solid black; padding: 2px; margin-left: 10px;" type="button" value="Free"/>
<input style="margin-right: 10px;" type="button" value="Reset"/>	<input style="width: 100px; height: 25px; border: 1px solid black; padding: 2px;" type="button" value="Update"/>

- Notice the updates in timeCompleted in dispatch table!

The screenshot shows the MySQL Workbench interface for the dispatch table. The table has columns: incidentId, patrolcarId, timeDispatched, timeArrived, and timeCompleted. The data shows a single row with incidentId 179, patrolcarId QX1234A, timeDispatched 2020-05-05 22:16:33, timeArrived 2020-05-05 22:30:17, and timeCompleted 2020-05-05 22:35:16. The SQL query used to select all rows from the dispatch table is shown in the query editor.