

2 **Aim:** - Connect to MySQL database system and create new database

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

1 Working PC.

2 Windows Operating System.

3 Xampp server.

4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
// Creating connection
$conn = mysqli_connect($servername, $username, $password);
// Checking connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
```

```

}

// Creating a database named nsti1

$sql = "CREATE DATABASE nsti1";

if (mysqli_query($conn, $sql)) {
    echo "Database created successfully with the name nsti1";
} else {
    echo "Error creating database: " . mysqli_error($conn);
}

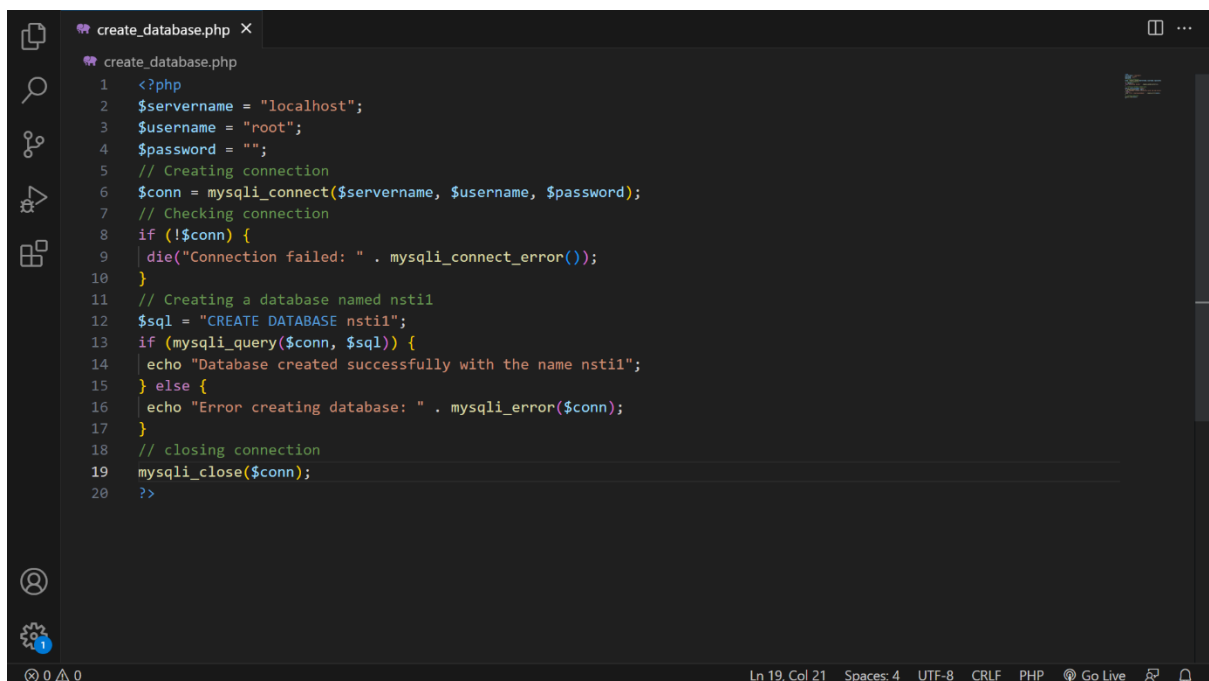
// closing connection

mysqli_close($conn);

?>

```

Screenshot of code



The screenshot shows a code editor with a file named 'create_database.php'. The code is as follows:

```

1  <?php
2  $servername = "localhost";
3  $username = "root";
4  $password = "";
5  // Creating connection
6  $conn = mysqli_connect($servername, $username, $password);
7  // Checking connection
8  if (!$conn) {
9      die("Connection failed: " . mysqli_connect_error());
10 }
11 // Creating a database named nsti1
12 $sql = "CREATE DATABASE nsti1";
13 if (mysqli_query($conn, $sql)) {
14     echo "Database created successfully with the name nsti1";
15 } else {
16     echo "Error creating database: " . mysqli_error($conn);
17 }
18 // closing connection
19 mysqli_close($conn);
20 ?>

```

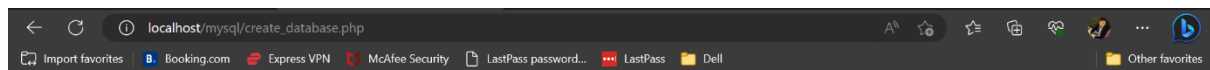
The editor interface includes a sidebar with icons for file explorer, search, and other functions. The bottom status bar shows 'Ln 19, Col 21', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and 'Go Live'.

Then after executed code: -

After go to browser and search: -

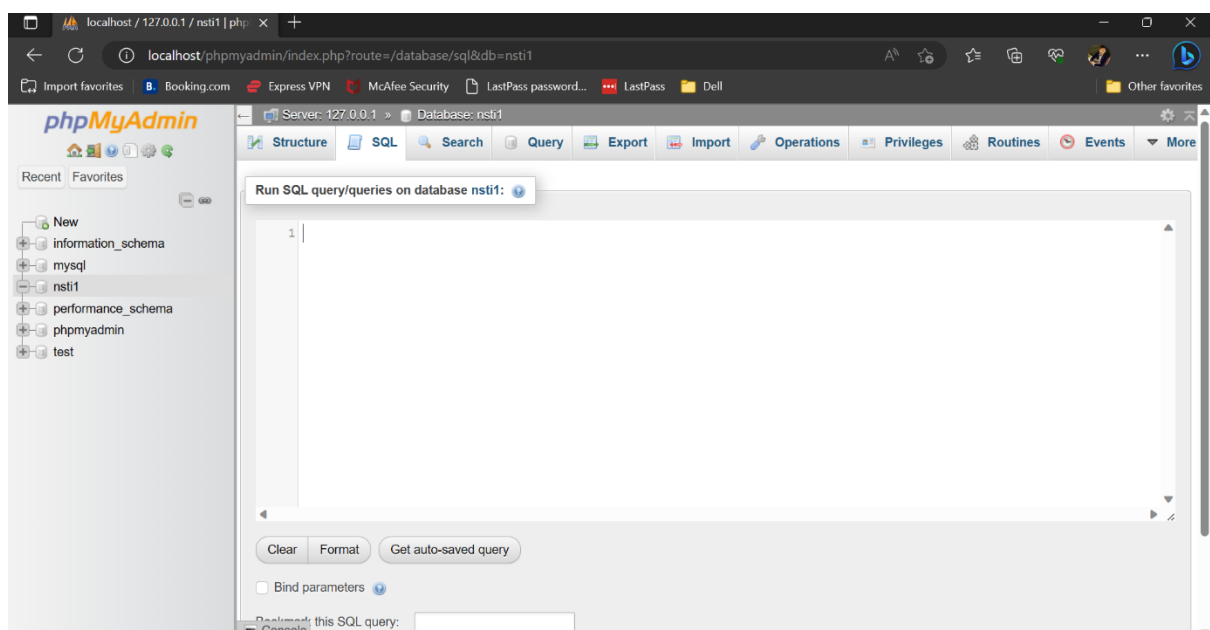
localhost/adit(folder_name)filename.

Output: -



Database created successfully with the name nstl1

Then after go to MySQL Databases and see database name



Successfully created Database name Nsti1

3 **Aim:** - Create tables in new databases and enter sample data.

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

```
<?php
```

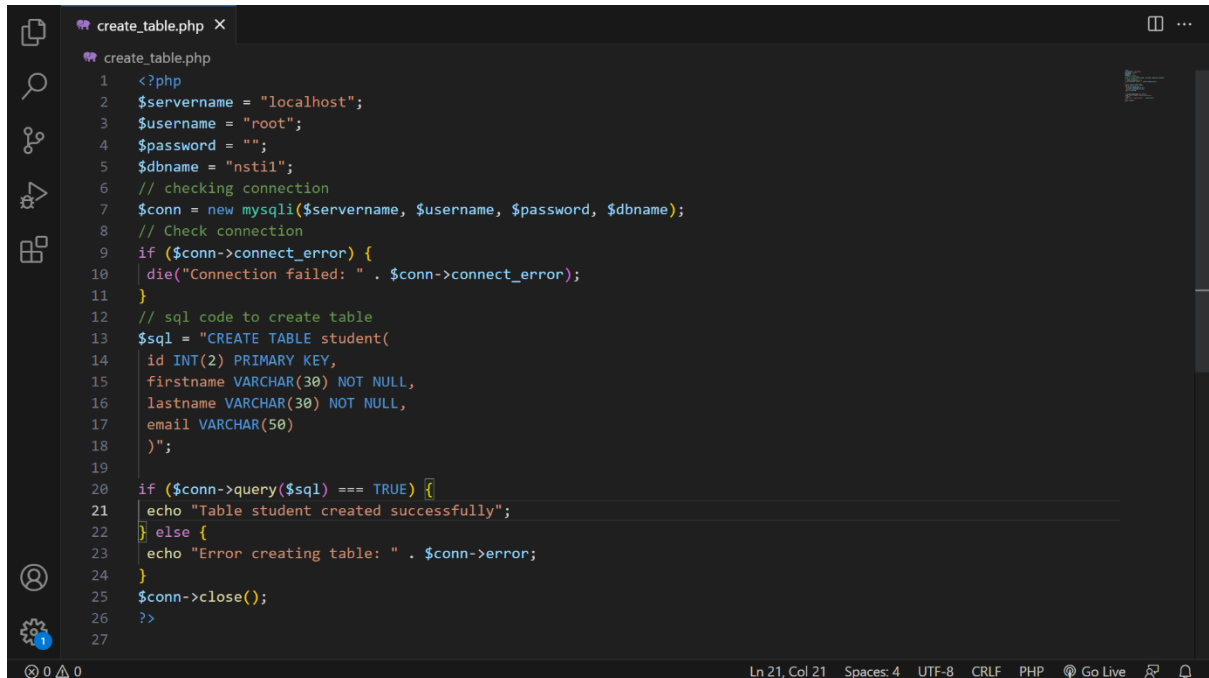
```
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "nsti1";
// checking connection
$conn = new mysqli($servername, $username, $password,
$dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
// sql code to create table
$sql = "CREATE TABLE student(
    id INT(2) PRIMARY KEY,
    firstname VARCHAR(30) NOT NULL,
    lastname VARCHAR(30) NOT NULL,
    email VARCHAR(50)
)";

if ($conn->query($sql) === TRUE) {
    echo "Table student created successfully";
} else {
    echo "Error creating table: " . $conn->error;
}
```

```
$conn->close();
```

```
?>
```

Screenshot of code

A screenshot of a code editor window titled 'create_table.php'. The code is in PHP and uses the mysqli extension to connect to a MySQL database on localhost. It checks the connection, then executes a SQL query to create a table named 'student' with columns: id (INT(2) PRIMARY KEY), firstname (VARCHAR(30) NOT NULL), lastname (VARCHAR(30) NOT NULL), and email (VARCHAR(50)). After execution, it checks if the query was successful and echoes a message. Finally, it closes the connection. The status bar at the bottom shows 'Ln 21, Col 21', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and 'Go Live' button.

```
1 <?php
2 $servername = "localhost";
3 $username = "root";
4 $password = "";
5 $dbname = "nstill";
6 // checking connection
7 $conn = new mysqli($servername, $username, $password, $dbname);
8 // Check connection
9 if ($conn->connect_error) {
10     die("Connection failed: " . $conn->connect_error);
11 }
12 // sql code to create table
13 $sql = "CREATE TABLE student(
14     id INT(2) PRIMARY KEY,
15     firstname VARCHAR(30) NOT NULL,
16     lastname VARCHAR(30) NOT NULL,
17     email VARCHAR(50)
18 );";
19
20 if ($conn->query($sql) === TRUE) {
21     echo "Table student created successfully";
22 } else {
23     echo "Error creating table: " . $conn->error;
24 }
25 $conn->close();
26 ?>
27
```

Then after executed code: -

After go to browser and search: -

localhost/adit(folder_name)filename.

Output: -

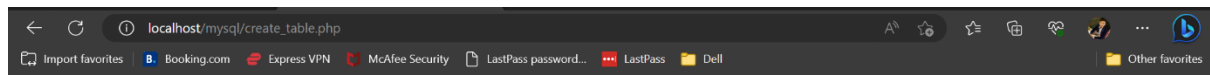
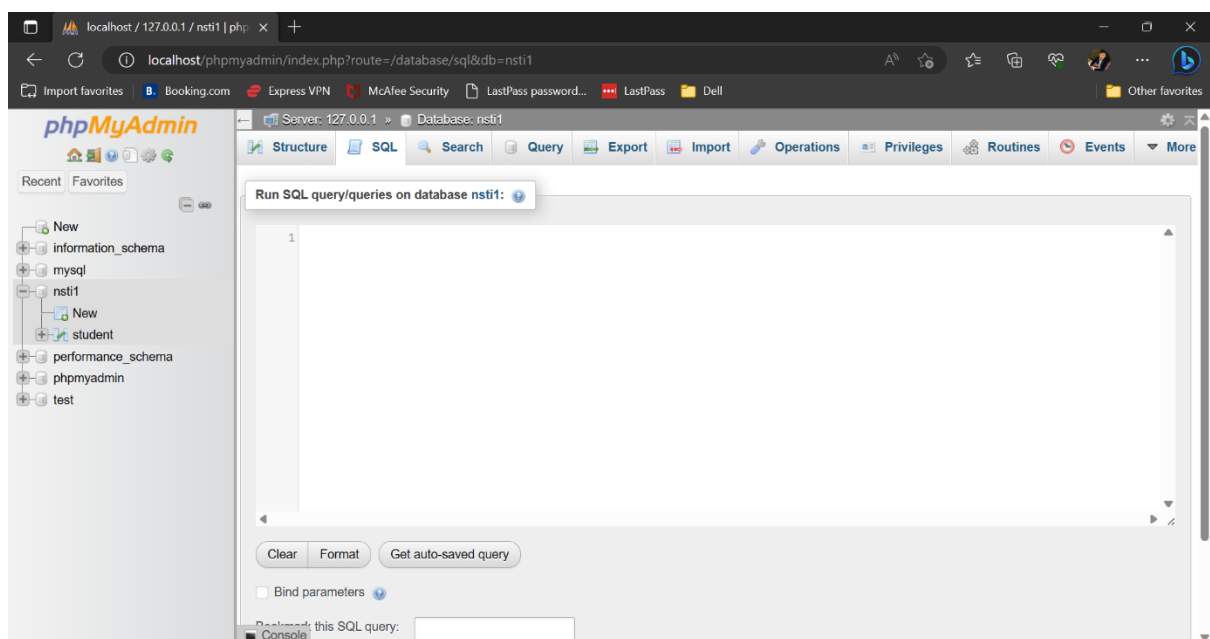


Table student created successfully

Then after go to MySQL Databases and see Table name



Successfully created Table name Student

4 **Aim:** - Import data into databases table from CSV file

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

```
<?php
```



```
// Create connection
$db = new mysqli('localhost', 'root', '', 'nsti1');

// Checking connection
if ($db->connect_errno) {
    echo "Failed to connect to MySQL: " . $db->connect_error;
    exit();
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>Table Display and Database Storage</title>
    <style>
        table {
            border-collapse: collapse;
            border: 2px solid black;
        }

        th, td {
            padding: 5px;
        }
```

```
th {
    background-color: lightblue;
}
</style>
</head>
<body>
    <h1><center>Display the Data from Database of CSV
file</center></h1>
    <table align="center" width="800" border="1">
        <thead>
            <tr>
                <th><center>ID</center></th>
                <th><center>NAME</center></th>
                <th><center>AGE</center></th>
                <th><center>EMAIL</center></th>
                <th><center>CITY</center></th>
            </tr>
        </thead>
        <tbody>
            <?php
                // Get csv file
                $csvFile = "detail.csv";
                if (($handle = fopen($csvFile, "r")) !== FALSE) {
                    $n = 1;
```

```

while (($row = fgetcsv($handle)) !== FALSE) {
    // Check if all columns exist
    if (count($row) >= 4) {
        // SQL query to store data in the database (assuming
        table2 exists)
        $db->query('INSERT INTO student (id, name, age, email,
        city) VALUES
        ("'.$row[0].'", "'.$row[1].'", "'.$row[2].'", "'.$row[3].'", "'.$row[4].'")');
        if ($n > 1) {
            ?>
            <tr>
                <td><center><?php echo $row[0];
?></center></td>
                <td><center><?php echo $row[1];
?></center></td>
                <td><center><?php echo $row[2];
?></center></td>
                <td><center><?php echo $row[3];
?></center></td>
                <td><center><?php echo $row[4];
?></center></td>
            </tr>
            <?php
        }
    } else {
        echo "Invalid row format: ".implode(' ', $row);
    }
}

```

```

        }

        // Increment records

        $n++;

    }

    // Closing the file

    fclose($handle);

} else {

    echo "Failed to open the CSV file: " . $csvFile;

}

?>

</tbody>

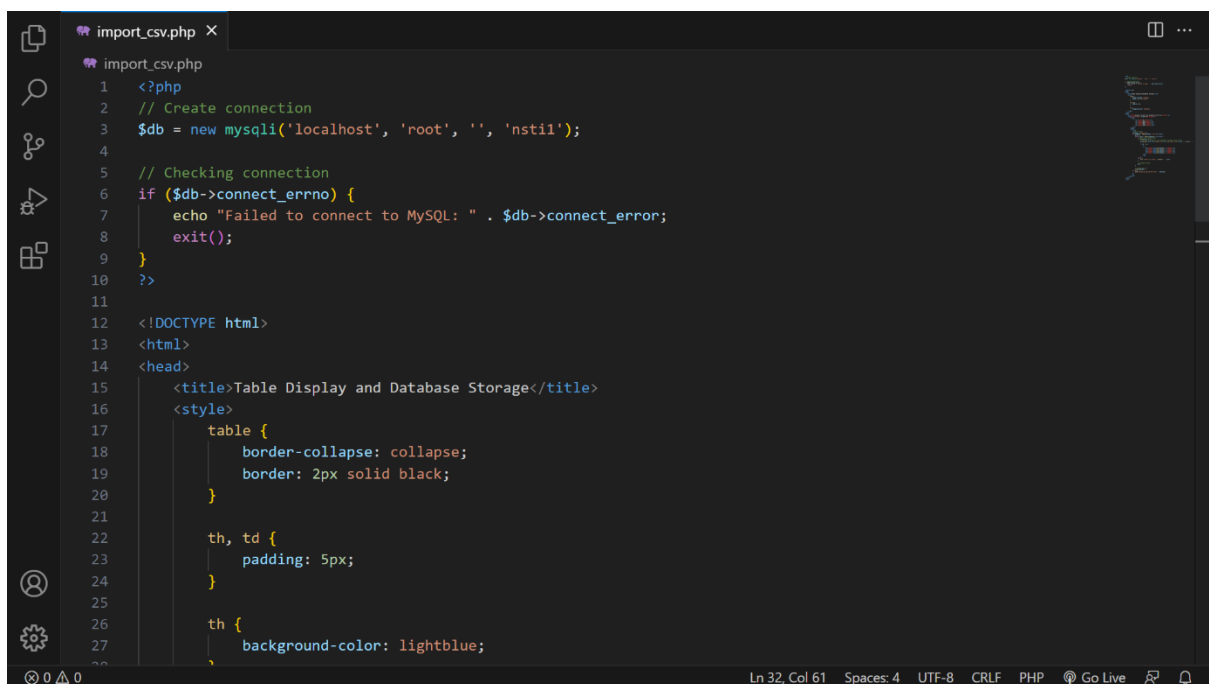
</table>

</body>

</html>

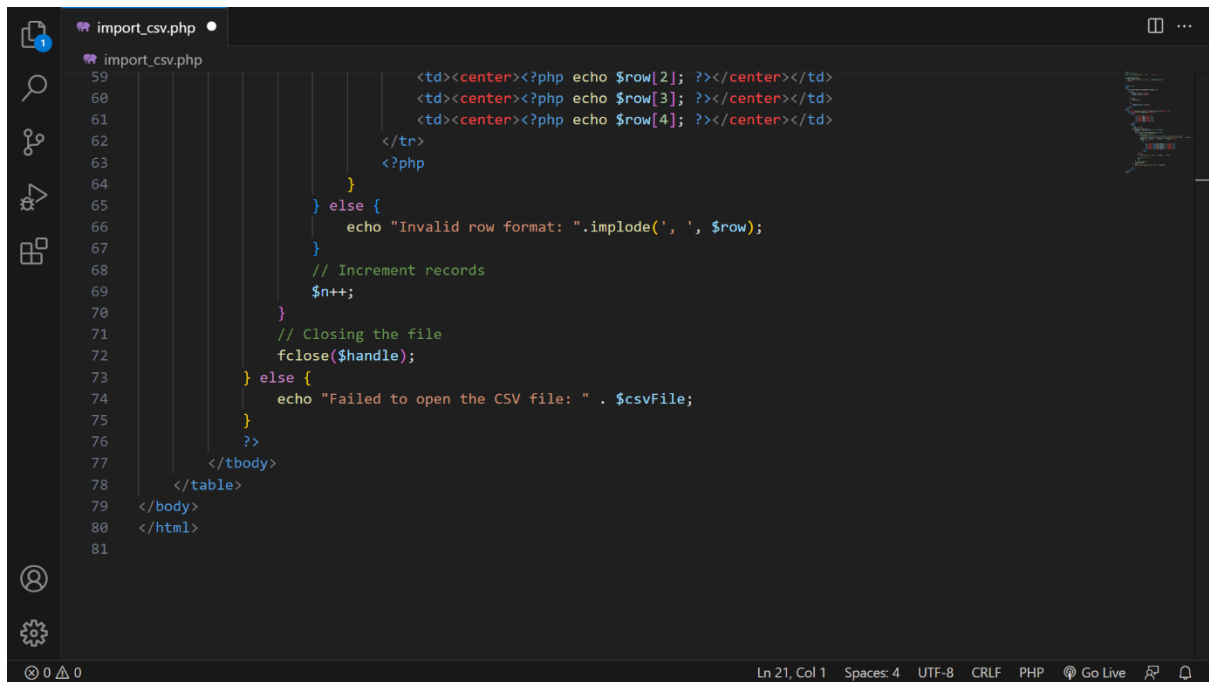
```

Screenshot of code



```
import_csv.php X
import_csv.php
26         th {
27             background-color: lightblue;
28         }
29     </style>
30 </head>
31 <body>
32     <h1><center>Display the Data from Database of CSV file</center></h1>
33     <table align="center" width="800" border="1">
34         <thead>
35             <tr>
36                 <th><center>ID</center></th>
37                 <th><center>NAME</center></th>
38                 <th><center>AGE</center></th>
39                 <th><center>EMAIL</center></th>
40                 <th><center>CITY</center></th>
41             </tr>
42         </thead>
43         <tbody>
44             <?php
45                 // Get csv file
46                 $csvFile = "detail.csv";
47                 if (($handle = fopen($csvFile, "r")) !== FALSE) {
48                     $n = 1;
49                     while (($row = fgetcsv($handle)) !== FALSE) {
50                         // Check if all columns exist
51                         if (count($row) >= 4) {
52                             // SQL query to store data in the database (assuming table2 exists)
```

```
import_csv.php
import_csv.php
47         if (($handle = fopen($csvFile, "r")) !== FALSE) {
48             $n = 1;
49             while (($row = fgetcsv($handle)) !== FALSE) {
50                 // Check if all columns exist
51                 if (count($row) >= 4) {
52                     // SQL query to store data in the database (assuming table2 exists)
53                     $db->query('INSERT INTO student (id, name, age, email, city) VALUES ("'.$row[0].'", "'.
54                         $row[1].'", "'.$row[2].'", "'.$row[3].'", "'.$row[4].'")');
55                     if ($n > 1) {
56                         <?>
57                         <tr>
58                             <td><center><?php echo $row[0]; ?></center></td>
59                             <td><center><?php echo $row[1]; ?></center></td>
60                             <td><center><?php echo $row[2]; ?></center></td>
61                             <td><center><?php echo $row[3]; ?></center></td>
62                             <td><center><?php echo $row[4]; ?></center></td>
63                         </tr>
64                         <?php
65                     }
66                 } else {
67                     echo "Invalid row format: ".implode(' ', $row);
68                 }
69                 // Increment records
70                 $n++;
71             }
72             // Closing the file
73             fclose($handle);
```



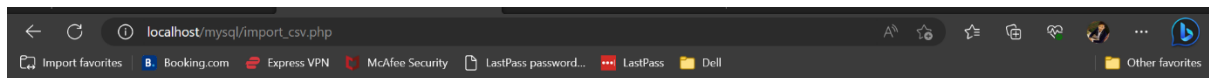
```
import_csv.php
59      <td><center><?php echo $row[2]; ?></center></td>
60      <td><center><?php echo $row[3]; ?></center></td>
61      <td><center><?php echo $row[4]; ?></center></td>
62      </tr>
63      <?php
64      }
65      } else {
66          echo "Invalid row format: ".implode(' ', $row);
67      }
68      // Increment records
69      $n++;
70      }
71      // Closing the file
72      fclose($handle);
73      } else {
74          echo "Failed to open the CSV file: " . $csvFile;
75      }
76      ?>
77      </tbody>
78      </table>
79      </body>
80      </html>
81
```

Then after executed code: -

After go to browser and search: -

localhost/adit(folder_name)filename.

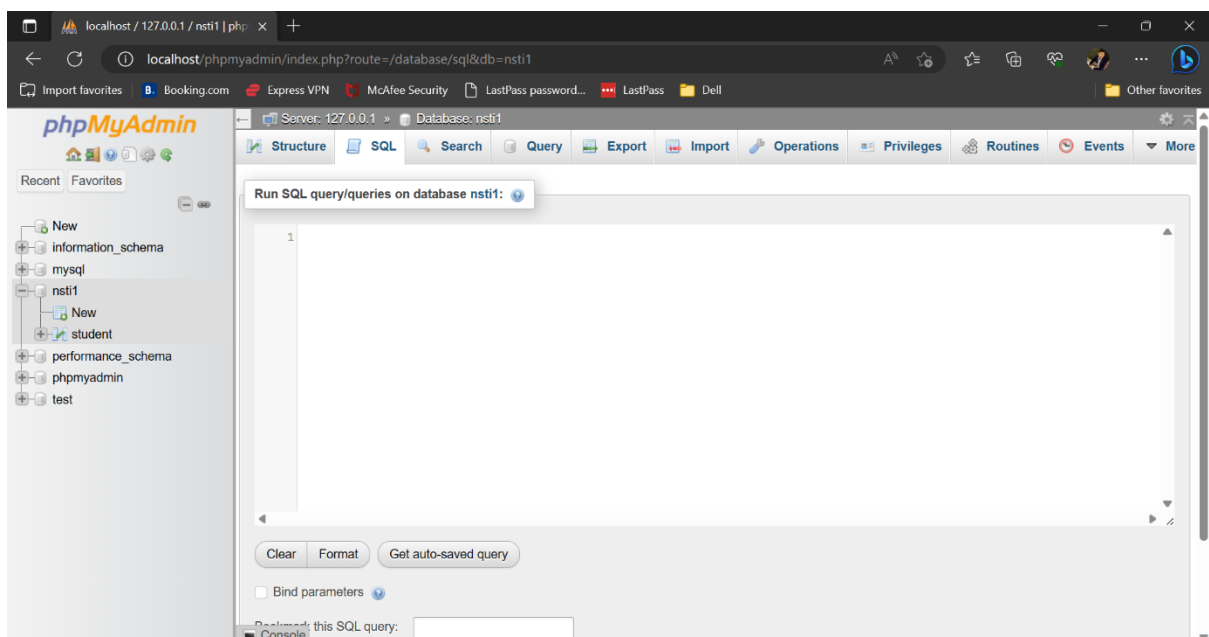
Output: -



Display the Data from Database of CSV file

ID	NAME	AGE	EMAIL	CITY
1	Rakesh	21	rakesh@gmail.com	Patna
2	Raushan	22	raushan@gmail.com	Sitamarhi
3	Rajiv	24	rajiv@gmail.com	Bihar
4	Amit	28	amit@gmail.com	Patna
5	Priyanka	24	priya@gmail.com	UP
6	Raju	22	raju@gmail.com	Patna
7	Saurav	21	saurav@gmail.com	Sitamarhi

Then after go to MySQL Databases and see Data



And also see csv file

id	name	age	email	city
1	Rakesh	21	rakesh@gmail.com	Patna
2	Raushan	22	raushan@gmail.com	Sitamarhi
3	Rajiv	24	rajiv@gmail.com	Bihar
4	Amit	28	amit@gmail.com	Patna
5	Priyanka	24	priya@gmail.com	UP
6	Raju	22	raju@gmail.com	Patna
7	Saurav	21	saurav@gmail.com	Sitamarhi

5 **Aim:** - Read data from database table, all data, filtered data based on SQL queries

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

```
<?php
$link = mysqli_connect("localhost", "root", "", "nsti1");
// Check connection
if ($link === false) {
    die("ERROR: Could not connect. " . mysqli_connect_error());
}
// Attempt select query execution
$sql = "SELECT * FROM student WHERE age='22'";
if ($result = mysqli_query($link, $sql)) {
    if (mysqli_num_rows($result) > 0) {
        echo "<table border=2px>";
```

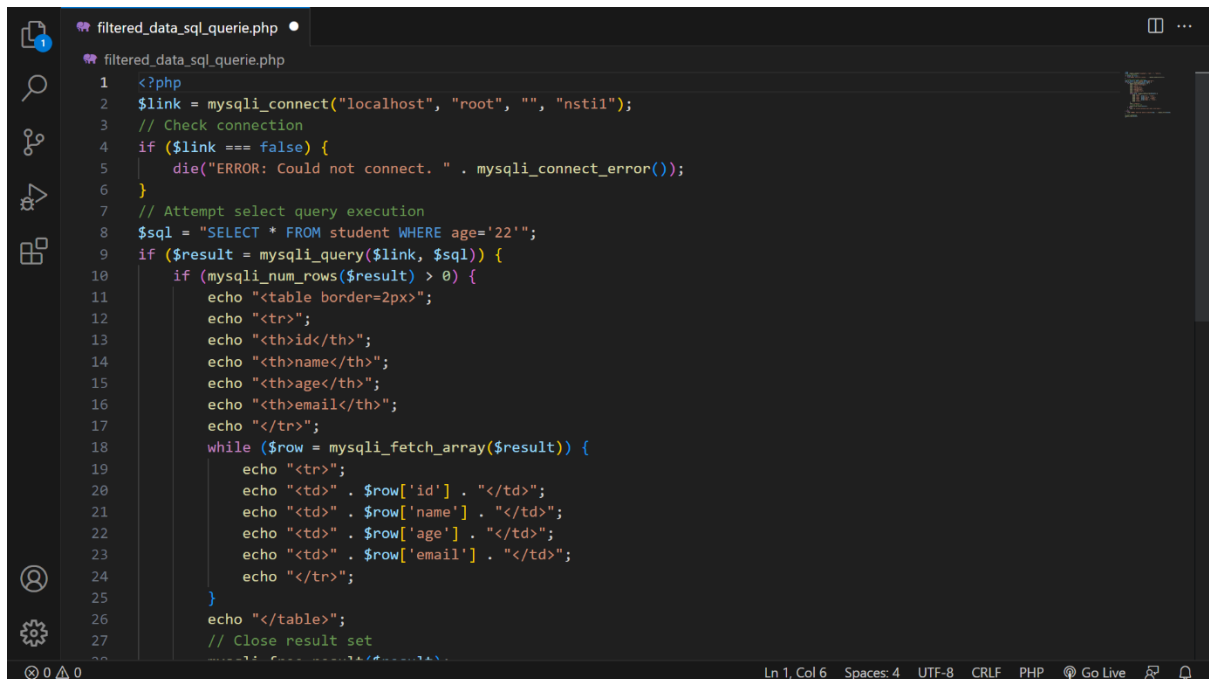
```
echo "<tr>";
echo "<th>id</th>";
echo "<th>name</th>";
echo "<th>age</th>";
echo "<th>email</th>";
echo "</tr>";
while ($row = mysqli_fetch_array($result)) {
    echo "<tr>";
    echo "<td>" . $row['id'] . "</td>";
    echo "<td>" . $row['name'] . "</td>";
    echo "<td>" . $row['age'] . "</td>";
    echo "<td>" . $row['email'] . "</td>";
    echo "</tr>";
}
echo "</table>";
// Close result set
mysqli_free_result($result);
} else {
    echo "No records matching your query were found.";
}
} else {
    echo "ERROR: Could not able to execute $sql. " .
mysqli_error($link);
}
```

// Close connection

mysqli_close(\$link);

?>

Screenshot of code



```
1 <?php
2 $link = mysqli_connect("localhost", "root", "", "nstit1");
3 // Check connection
4 if ($link === false) {
5     die("ERROR: Could not connect. " . mysqli_connect_error());
6 }
7 // Attempt select query execution
8 $sql = "SELECT * FROM student WHERE age='22'";
9 if ($result = mysqli_query($link, $sql)) {
10     if (mysqli_num_rows($result) > 0) {
11         echo "<table border=2px>";
12         echo "<tr>";
13         echo "<th>id</th>";
14         echo "<th>name</th>";
15         echo "<th>age</th>";
16         echo "<th>email</th>";
17         echo "</tr>";
18         while ($row = mysqli_fetch_array($result)) {
19             echo "<tr>";
20             echo "<td>" . $row['id'] . "</td>";
21             echo "<td>" . $row['name'] . "</td>";
22             echo "<td>" . $row['age'] . "</td>";
23             echo "<td>" . $row['email'] . "</td>";
24             echo "</tr>";
25         }
26         echo "</table>";
27         // Close result set
```



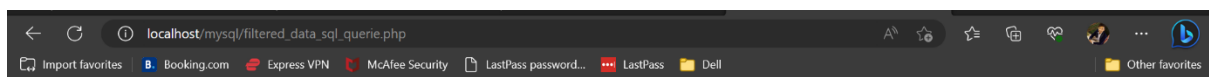
```
15         echo "<th>age</th>";
16         echo "<th>email</th>";
17         echo "</tr>";
18         while ($row = mysqli_fetch_array($result)) {
19             echo "<tr>";
20             echo "<td>" . $row['id'] . "</td>";
21             echo "<td>" . $row['name'] . "</td>";
22             echo "<td>" . $row['age'] . "</td>";
23             echo "<td>" . $row['email'] . "</td>";
24             echo "</tr>";
25         }
26         echo "</table>";
27         // Close result set
28         mysqli_free_result($result);
29     } else {
30         echo "No records matching your query were found.";
31     }
32 } else {
33     echo "ERROR: Could not able to execute $sql. " . mysqli_error($link);
34 }
35 // Close connection
36 mysqli_close($link);
37 ?>
38
```

Then after executed code: -

After go to browser and search: -

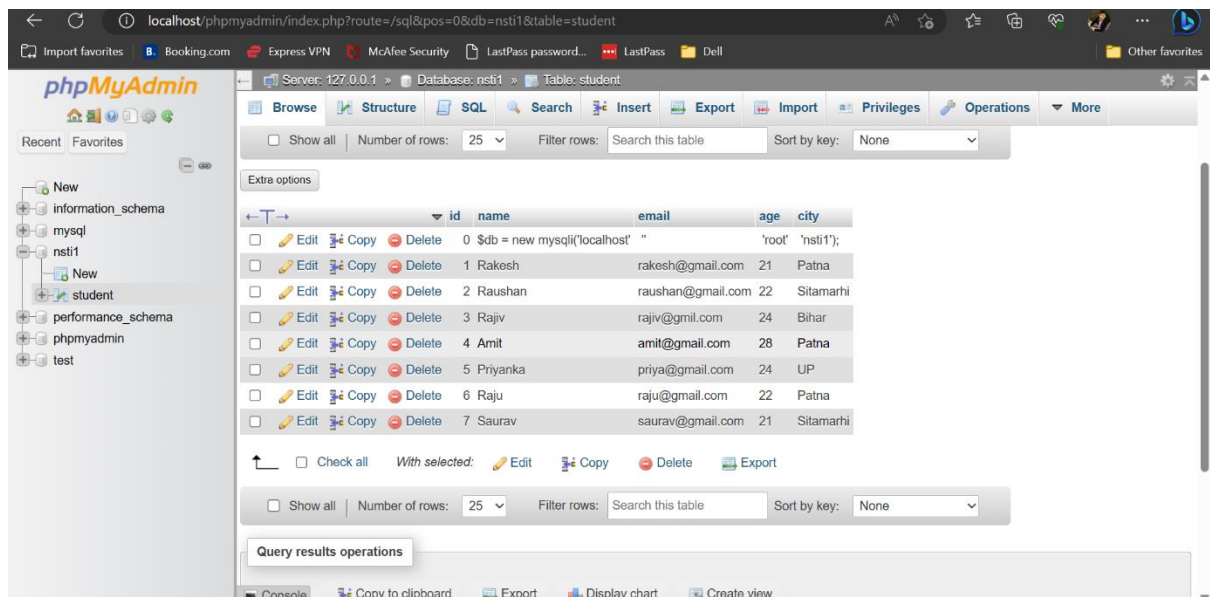
localhost/adit(folder_name)filename.

Output: -



id	name	age	email
2	Raushan	22	raushan@gmail.com
6	Raju	22	raju@gmail.com

Then after go to MySQL Databases and see Data



6 **Aim:** - Update single record, and multiple records based on criteria.

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

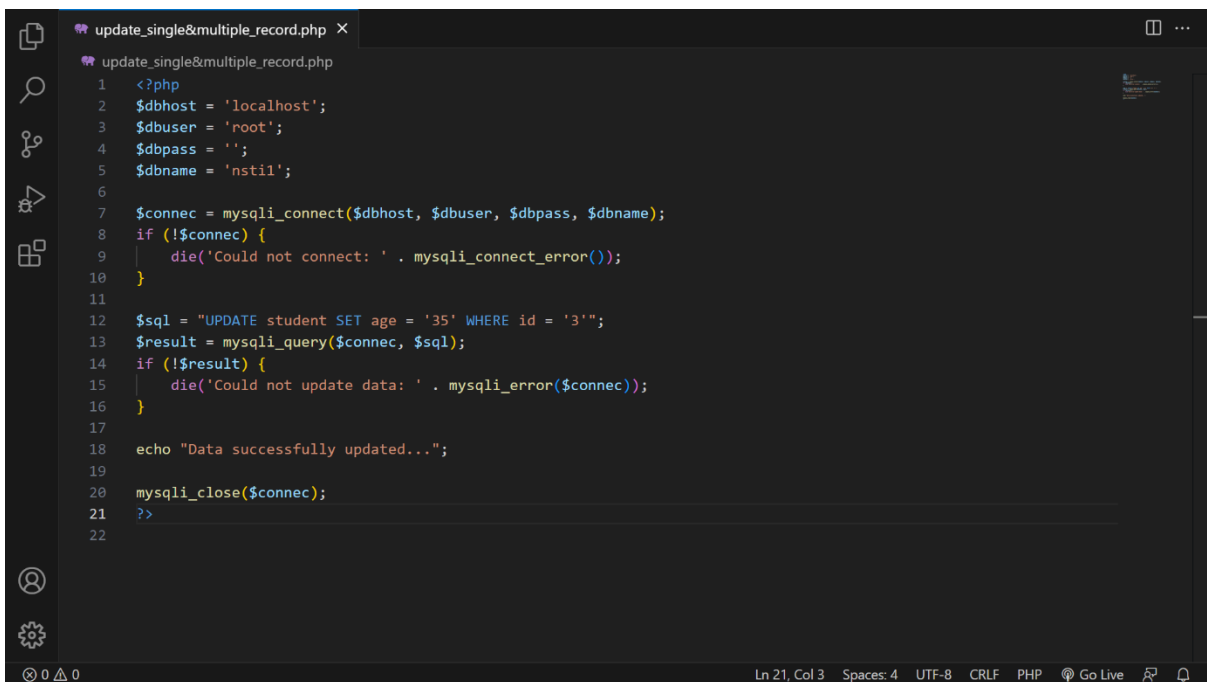
For Single data update

```
<?php
$dbhost = 'localhost';
$dbuser = 'root';
$dbpass = '';
$dbname = 'nsti1';

$connec = mysqli_connect($dbhost, $dbuser, $dbpass, $dbname);
if (!$connec) {
    die('Could not connect: ' . mysqli_connect_error());
}
```

```
$sql = "UPDATE student SET age = '35' WHERE id = '3'";  
$result = mysqli_query($connec, $sql);  
if (!$result) {  
    die('Could not update data: ' . mysqli_error($connec));  
}  
  
echo "Data successfully updated...";  
  
mysqli_close($connec);  
?>
```

Screenshot of code



The screenshot shows a code editor with a file named 'update_single&multiple_record.php'. The code is as follows:

```
1 <?php  
2 $dbhost = 'localhost';  
3 $dbuser = 'root';  
4 $dbpass = '';  
5 $dbname = 'nstill';  
6  
7 $connec = mysqli_connect($dbhost, $dbuser, $dbpass, $dbname);  
8 if (!$connec) {  
9     die('Could not connect: ' . mysqli_connect_error());  
10 }  
11  
12 $sql = "UPDATE student SET age = '35' WHERE id = '3'";  
13 $result = mysqli_query($connec, $sql);  
14 if (!$result) {  
15     die('Could not update data: ' . mysqli_error($connec));  
16 }  
17  
18 echo "Data successfully updated...";  
19  
20 mysqli_close($connec);  
21 ?>  
22
```

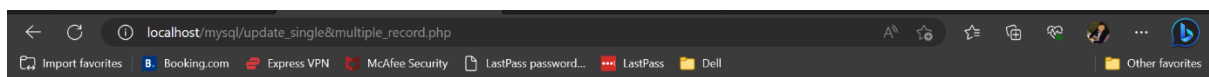
The editor interface includes a sidebar with icons for file explorer, search, and other tools. The status bar at the bottom indicates 'Ln 21, Col 3', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and 'Go Live'.

Then after executed code: -

After go to browser and search: -

localhost/adit(folder_name)filename.

Output: -



Data successfully updated...

Then after go to MySQL Databases and see Data

Screenshot of database Before Update

Server: 127.0.0.1 » Database: nst1 » Table: student

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

SELECT * FROM `student`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

Extra options

id	name	age	email
1	Rakesh kumar	21	rakesh@gmail.com
2	Raushan kumar	22	raushan@gmail.com
3	Amit kumar	27	amit@gmail.com
4	Priyanka Gupta	24	priya@gmail.com
5	Raju kumar	23	raju@gmail.com
6	Saurav kumar	22	saurav@gmail.com

Screenshot of database After Update

Server: 127.0.0.1 » Database: nst1 » Table: student

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

SELECT * FROM `student`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

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

Extra options

id	name	age	email
1	Rakesh kumar	21	rakesh@gmail.com
2	Raushan kumar	22	raushan@gmail.com
3	Amit kumar	35	amit@gmail.com
4	Priyanka Gupta	24	priya@gmail.com
5	Raju kumar	23	raju@gmail.com
6	Saurav kumar	22	saurav@gmail.com

Code: -

For Multiple data update

<?php

```
$dbhost = 'localhost';
```

```
$dbuser = 'root';
```

```
$dbpass = '';
```

```
$dbname = 'nsti1';
```

```
$connec = mysqli_connect($dbhost, $dbuser, $dbpass, $dbname);
```

```
if (!$connec) {
```

```
    die('Could not connect: ' . mysqli_connect_error());
```

```
}
```

```
$sql = "UPDATE student SET age = CASE id
```

```
WHEN 1 THEN 18
```

```
WHEN 3 THEN 27
```

```
WHEN 4 THEN 28
```

```
ELSE age
```

```
END,
```

```
email= CASE id
```

```
WHEN 2 THEN 'krsonaraj@gmail.com'
```

```
WHEN 4 THEN 'priyanka@gmail.com'
```

```
ELSE email
```

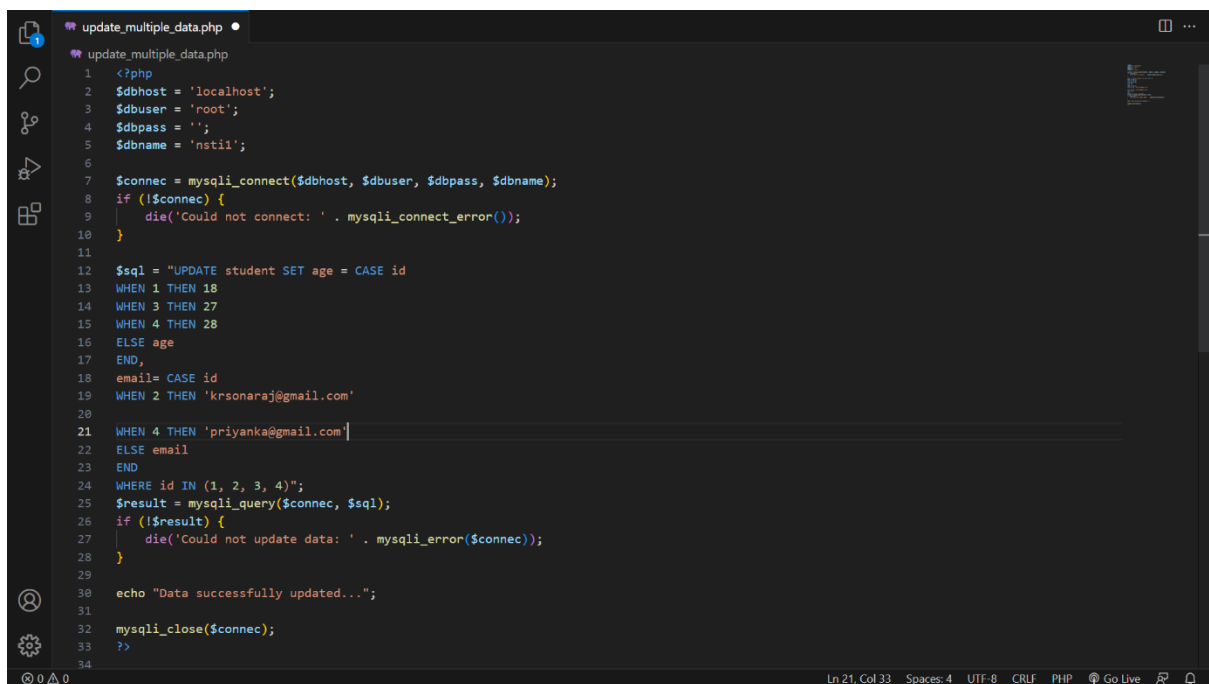
```
END
```

```
WHERE id IN (1, 2, 3, 4)";
```

```
$result = mysqli_query($connec, $sql);
```

```
if (!$result) {  
    die('Could not update data: ' . mysqli_error($connec));  
}  
  
echo "Data successfully updated...";  
  
mysqli_close($connec);  
?>
```

Screenshot of code



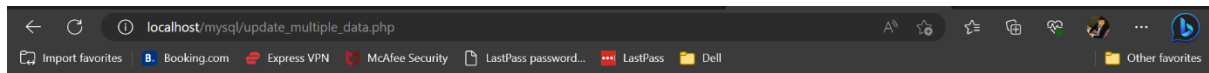
```
update_multiple_data.php  
1 <?php  
2 $dbhost = 'localhost';  
3 $dbuser = 'root';  
4 $dbpass = '';  
5 $dbname = 'nstill';  
6  
7 $connec = mysqli_connect($dbhost, $dbuser, $dbpass, $dbname);  
8 if (!$connec) {  
9     die('Could not connect: ' . mysqli_connect_error());  
10 }  
11  
12 $sql = "UPDATE student SET age = CASE id  
13 WHEN 1 THEN 18  
14 WHEN 3 THEN 27  
15 WHEN 4 THEN 28  
16 ELSE age  
17 END,  
18 email= CASE id  
19 WHEN 2 THEN 'krsonaraj@gmail.com'  
20  
21 WHEN 4 THEN 'priyanka@gmail.com'  
22 ELSE email  
23 END  
24 WHERE id IN (1, 2, 3, 4)";  
25 $result = mysqli_query($connec, $sql);  
26 if (!$result) {  
27     die('Could not update data: ' . mysqli_error($connec));  
28 }  
29  
30 echo "Data successfully updated...";  
31  
32 mysqli_close($connec);  
33 ?>  
34
```

Then after executed code: -

After go to browser and search: -

localhost/adit(folder_name)filename.

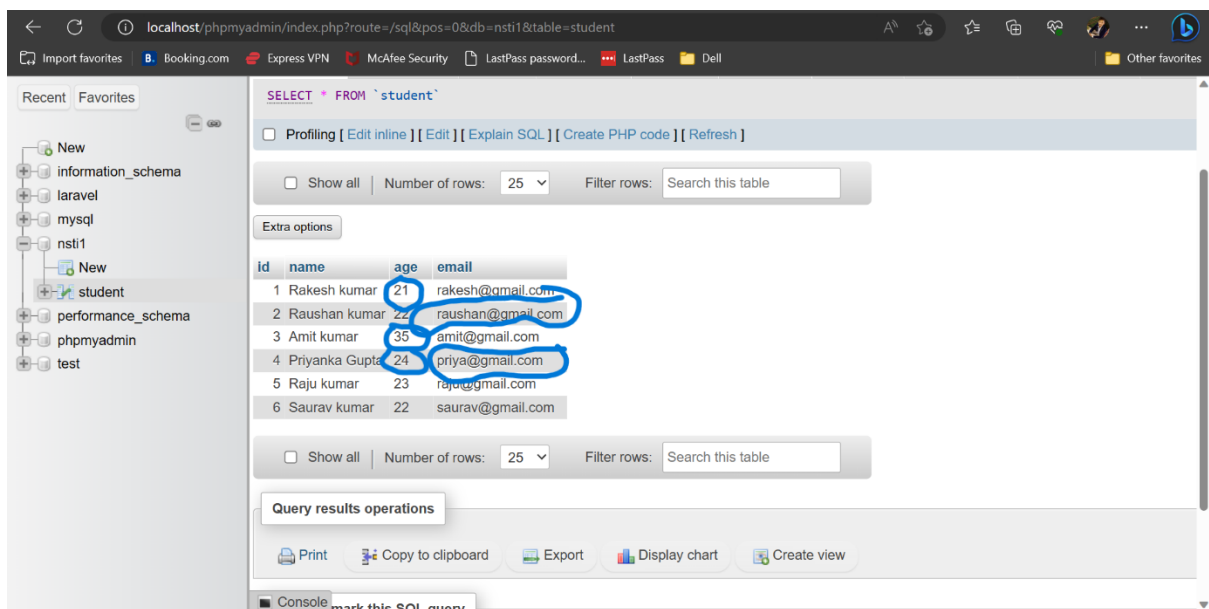
Output: -



Data successfully updated...

Then after go to MySQL Databases and see Data

Screenshot of database Before Update



Screenshot of database After Update

The screenshot shows the phpMyAdmin interface in a web browser. The left sidebar displays a database structure with 'nsti1' selected, containing a 'student' table. The main area shows the 'student' table with the following data:

| id | name | age | email |
|----|----------------|-----|----------------------|
| 1 | Rakesh kumar | 18 | rakesh@gmail.com |
| 2 | Raushan kumar | 22 | krisonaraj@gmail.com |
| 3 | Amit kumar | 27 | amit@gmail.com |
| 4 | Priyanka Gupta | 28 | priyanka@gmail.com |
| 5 | Raju kumar | 23 | raju@gmail.com |
| 6 | Saurav kumar | 22 | saurav@gmail.com |

The SQL query 'SELECT * FROM `student`' is displayed at the top. Below the table, there are options to 'Show all', 'Number of rows: 25', and a 'Filter rows' search box. At the bottom, there are buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

7 **Aim:** - Delete selected records from table.

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

```
<?php

/* Attempt MySQL server connection. Assuming you are running
MySQL server with default setting (user
'root' with no password) */

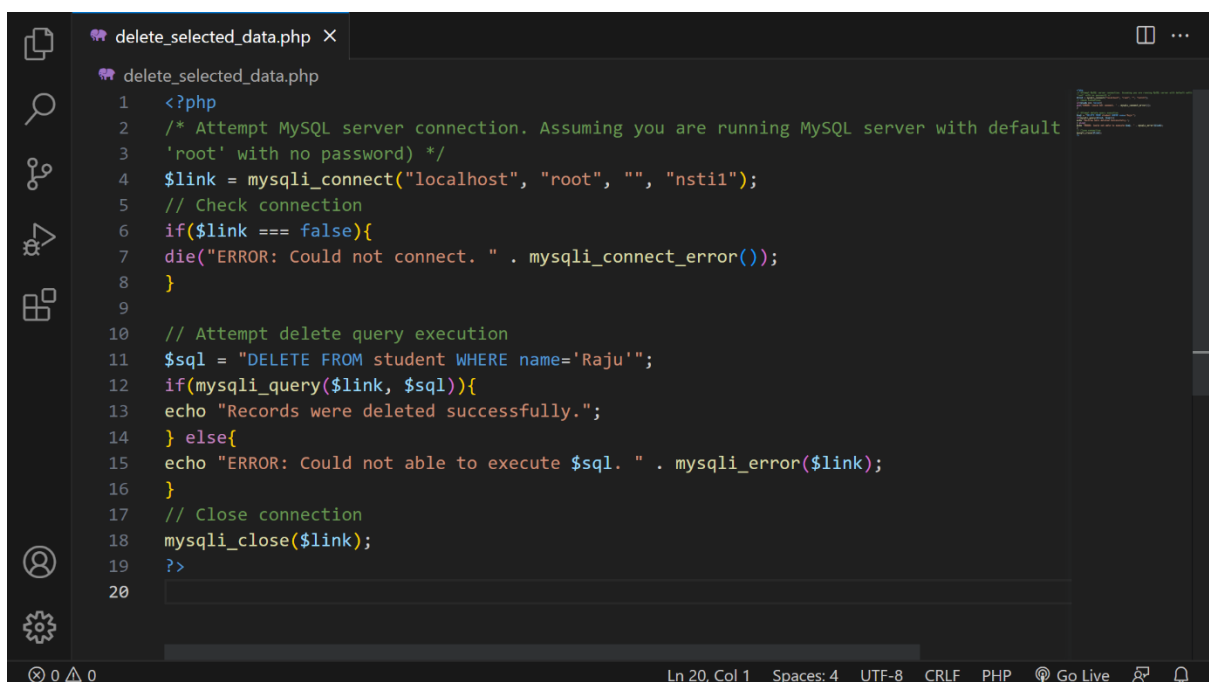
$link = mysqli_connect("localhost", "root", "", "nsti1");

// Check connection
if($link === false){
    die("ERROR: Could not connect. " . mysqli_connect_error());
}

// Attempt delete query execution
$sql = "DELETE FROM student WHERE name='Raju kumar'";
if(mysqli_query($link, $sql)){
    echo "Records were deleted successfully.";
```

```
} else{  
  
echo "ERROR: Could not able to execute $sql. " . mysqli_error($link);  
  
}  
  
// Close connection  
mysqli_close($link);
```

?> **Screenshot of code**



The screenshot shows a code editor with a file named 'delete_selected_data.php'. The code is as follows:

```
1  <?php  
2  /* Attempt MySQL server connection. Assuming you are running MySQL server with default  
3  'root' with no password) */  
4  $link = mysqli_connect("localhost", "root", "", "nstit1");  
5  // Check connection  
6  if($link === false){  
7      die("ERROR: Could not connect. " . mysqli_connect_error());  
8  }  
9  
10 // Attempt delete query execution  
11 $sql = "DELETE FROM student WHERE name='Raju'";  
12 if(mysqli_query($link, $sql)){  
13     echo "Records were deleted successfully.";  
14 } else{  
15     echo "ERROR: Could not able to execute $sql. " . mysqli_error($link);  
16 }  
17 // Close connection  
18 mysqli_close($link);  
19 ?>  
20
```

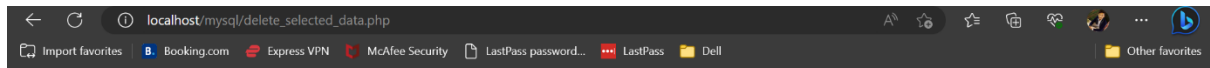
The editor interface includes a sidebar with icons for file explorer, search, and other functions. The status bar at the bottom shows 'Ln 20, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and 'Go Live'.

Then after executed code: -

After go to browser and search: -

localhost/adit(folder_name)filename.

Output: -



Records were deleted successfully.

Then after go to MySQL Databases and see Data

Screenshot of database Before Update

Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

SELECT * FROM `student`

Number of rows: 25 Filter rows: Search this table

id	name	age	email
1	Rakesh kumar	18	rakesh@gmail.com
2	Raushan kumar	22	krsonaraj@gmail.com
3	Amit kumar	27	amit@gmail.com
4	Priyanka Gupta	28	privanka@gmail.com
5	Raju kumar	23	raju@gmail.com
6	Saurav kumar	22	saurav@gmail.com

Number of rows: 25 Filter rows: Search this table

Screenshot of database After Update

Showing rows 0 - 4 (5 total, Query took 0.0006 seconds.)

SELECT * FROM `student`

Number of rows: 25 Filter rows: Search this table

id	name	age	email
1	Rakesh kumar	18	rakesh@gmail.com
2	Raushan kumar	22	krsonaraj@gmail.com
3	Amit kumar	27	amit@gmail.com
4	Priyanka Gupta	28	privanka@gmail.com
6	Saurav kumar	22	saurav@gmail.com

Number of rows: 25 Filter rows: Search this table

9 **Aim:** - Perform transaction in database tables using commit and rollback operations

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

Code: -

```
<?php
```

```
//trans.php
```

```
// Establish a MySQLi connection
```

```
$connection = mysqli_connect("localhost", "root", "", "nsti1");
```

```
if (!$connection) {
```

```
    die("Connection failed: " . mysqli_connect_error());
```

```
}
```

```
// Begin transaction
```

```
mysqli_begin_transaction($connection);
```

```
$query = "INSERT INTO student (id, name, age, email) VALUES ('5',  
'Raju kumar', '23', 'raju@gmail.com')";
```

```
$result = mysqli_query($connection, $query);
```

```
if (!$result) {
```

```
    // Rollback transaction
```

```
    mysqli_rollback($connection);
```

```
    echo "Transaction rolled back";
```

```
    exit;
```

```
} else {
```

```
    // Commit transaction
```

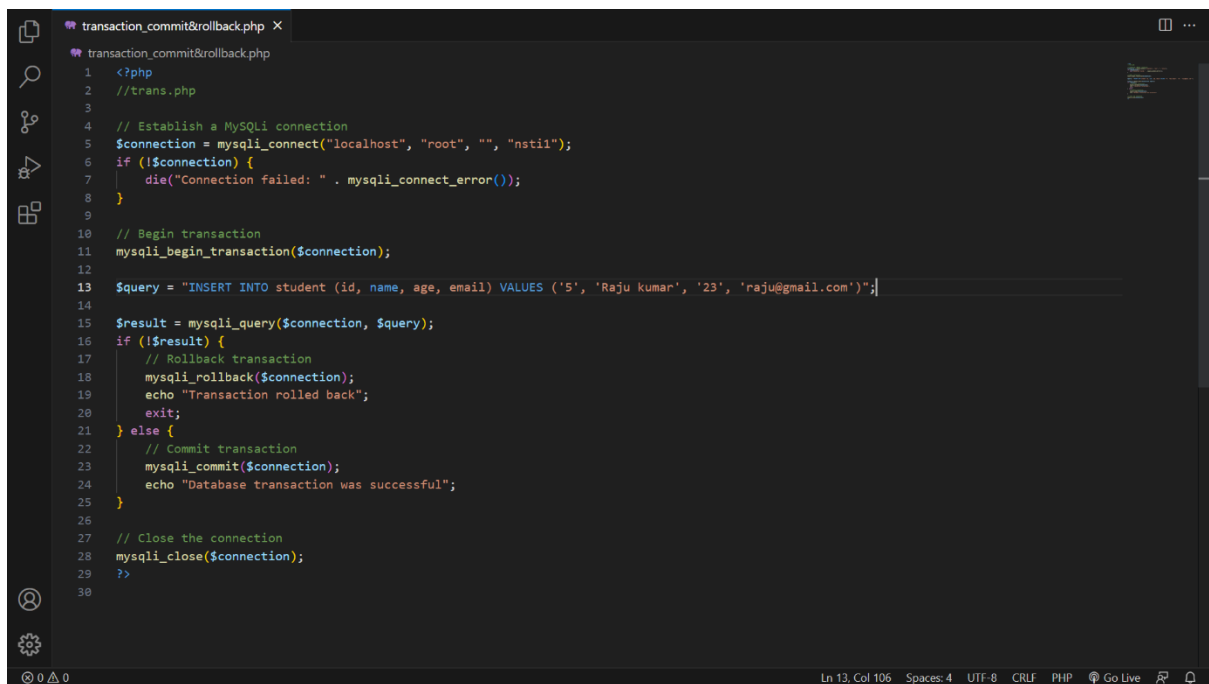
```
    mysqli_commit($connection);
```

```
    echo "Database transaction was successful";
}

// Close the connection
mysqli_close($connection);

?>
```

Screenshot of code

A screenshot of a code editor window titled 'transaction_commit&rollback.php'. The code is written in PHP and demonstrates a database transaction. It starts with a MySQLi connection to 'localhost' as 'root'. An SQL query is prepared to insert a student record. The code then checks the result of the query. If it fails, it rolls back the transaction and echoes 'Transaction rolled back'. If it succeeds, it commits the transaction and echoes 'Database transaction was successful'. Finally, it closes the connection. The editor interface includes a sidebar with icons for file explorer, search, and other tools. The status bar at the bottom shows 'Ln 13, Col 106', 'Spaces: 4', 'UTF-8', 'CRLF', 'PHP', and 'Go Live' button.

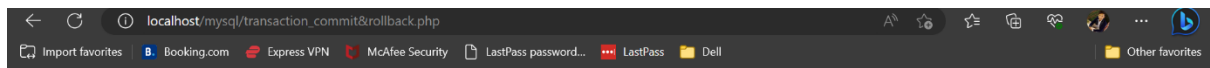
```
transaction_commit&rollback.php X
transaction_commit&rollback.php
1 <?php
2 //trans.php
3
4 // Establish a MySQLi connection
5 $connection = mysqli_connect("localhost", "root", "", "nstit");
6 if (!$connection) {
7     die("Connection failed: " . mysqli_connect_error());
8 }
9
10 // Begin transaction
11 mysqli_begin_transaction($connection);
12
13 $query = "INSERT INTO student (id, name, age, email) VALUES ('5', 'Raju kumar', '23', 'raju@gmail.com')";
14
15 $result = mysqli_query($connection, $query);
16 if (!$result) {
17     // Rollback transaction
18     mysqli_rollback($connection);
19     echo "Transaction rolled back";
20     exit;
21 } else {
22     // Commit transaction
23     mysqli_commit($connection);
24     echo "Database transaction was successful";
25 }
26
27 // Close the connection
28 mysqli_close($connection);
29 ?>
30
```

Then after executed code: -

After go to browser and search: -

localhost/adit(folder_name)filename.

Output: -



Database transaction was successful

Then after go to MySQL Databases and see Data

Screenshot of database Before Update

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=nsti1&table=student

information_schema
laravel
mysql
nsti1
New
student
performance_schema
phpmyadmin
test

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

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

Extra options

id	name	age	email
1	Rakesh kumar	18	rakesh@gmail.com
2	Raushan kumar	22	krsonaraj@gmail.com
4	Priyanka Gupta	28	priyanka@gmail.com
6	Saurav kumar	22	saurav@gmail.com
3	Amit Kumar	27	amit@gmail.com

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

Screenshot of database After Update

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=nsti1&table=student

information_schema
laravel
mysql
nsti1
New
student
performance_schema
phpmyadmin
test

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

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

Extra options

id	name	age	email
1	Rakesh kumar	18	rakesh@gmail.com
2	Raushan kumar	22	krsonaraj@gmail.com
4	Priyanka Gupta	28	priyanka@gmail.com
6	Saurav kumar	22	saurav@gmail.com
3	Amit Kumar	27	amit@gmail.com
5	Raju kumar	23	raju@gmail.com

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

10 **Aim:** - Demonstrate use of transaction control in relational databases

Learning outcome: -Able to configure embedded databases with different web pages using XAMPP and MySQL.

Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server.
- 4 Notepad Code editor and any browser.

Procedure: -

Open your Xampp server and Start Apache and MySQL.

Then after open Notepad code editor.

Then after write MySQL code.

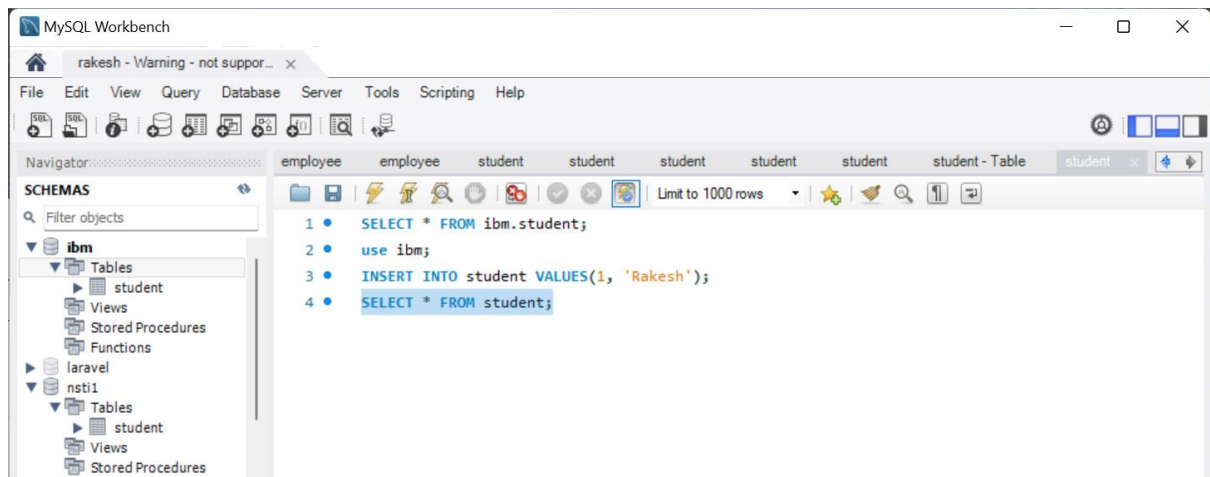
Code: -

Select *from ibm.student;

Use ibm;

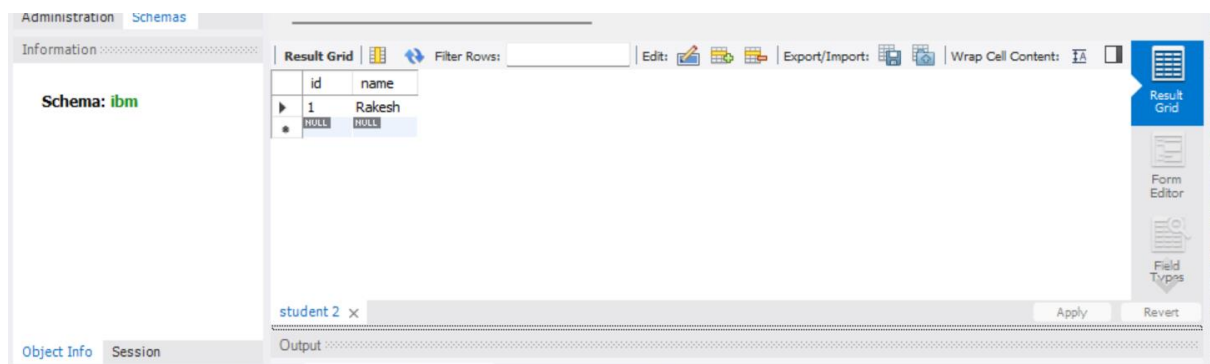
Insert into student values(1,'Rakesh');

Select *from student;



Then after executed code:

Output: -



Code:

Update student Set name = 'Rahul' Where id ='2';

Savepoint A;

Insert into student values(3, 'Raushan');

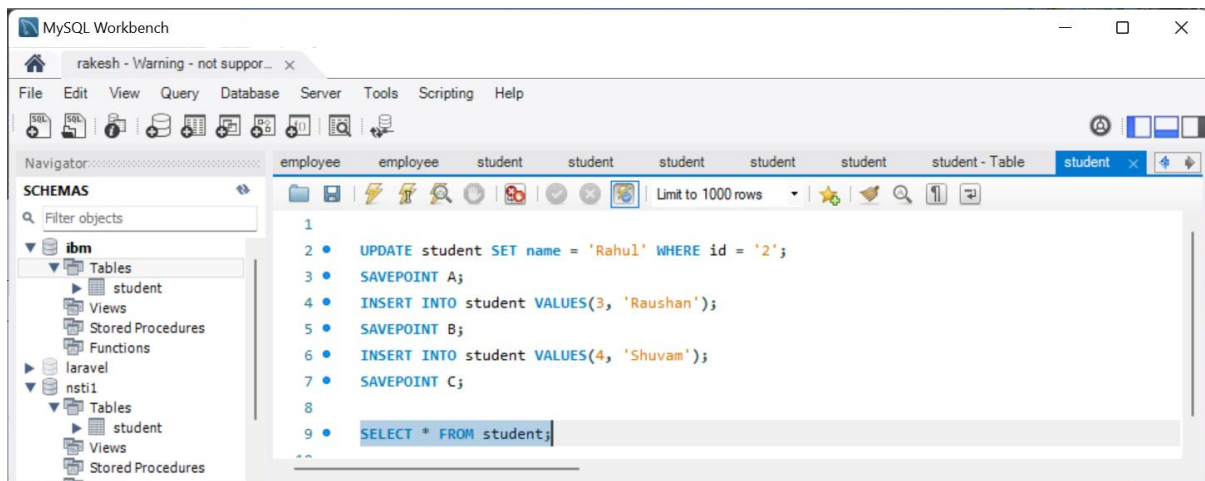
Savepoint B;

Insert into student values(4, 'Shuvam');

Savepoint B;

Select * From student;

Screenshot of code:



Output:

AdministrationSchemas

Information.....

Schema: **ibm**

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

Result Grid

Form Editor

	id	name
▶	1	Rakesh
	3	Raushan
	4	Shuvam
*	NULL	NULL

student 8 x Apply Revert

Output.....

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

Object Info

Session

