

Scenario-1

```
<?php
```

```
$conn = mysqli_connect("localhost", "root", "", "class_db");
```

Change the POST to GET.

We need to change it because we are sending data through URL.

```
$id = $_GET['id'];
```

```
$sql = "SELECT * FROM students WHERE id = $id";
```

```
$res = mysqli_query($conn, $sql);
```

```
$r = mysqli_fetch_assoc($res);
```

```
echo $r['first_name'];
```

```
?>
```

Scenario-2

```
<?php
```

```
$conn = mysqli_connect("localhost", "root", "", "class_db");
```

```
$fname = $_POST['fname'];
```

#Not inside the quotes because fname is a variable

#It show error if we not put ' ' around \$fname

```
$sql = "SELECT * FROM students WHERE first_name = '$fname' ";
```

```
$res = mysqli_query($conn, $sql);
```

```
?>
```

Scenario-3

```
<?php
```

```
$conn = mysqli_connect("localhost", "root", "", "class_db");
```

#If we put user input directly in sql is not safe

```
$stmt = $conn->prepare("SELECT * FROM students WHERE age = ?");  
$stmt->bind_param("i", $age);  
$stmt->execute();  
?>
```

Scenario-4

```
<?php  
$conn = mysqli_connect("localhost","root","","class_db");  
  
# We check if the fields are not empty before inserting  
if (!empty($_POST['fname']) && !empty($_POST['lname'])) {  
    $first = $_POST['fname'];  
    $last = $_POST['lname'];  
  
    # Only insert when both have values  
    $sql = "INSERT INTO students (first_name, last_name) VALUES ('$first', '$last')";  
    mysqli_query($conn, $sql);  
    echo "Inserted!";  
} else {  
    # one or both fields are empty  
    echo "Please fill out both first and last name."  
}  
?>
```

Scenario-5

```
<?php  
$conn = mysqli_connect("localhost","root","","class_db");
```

The POST key was misspelled, so we fix it to 'email'

```
$email = $_POST['email'];
```

```
$sql = "SELECT * FROM students WHERE email='$email'";
```

```
$res = mysqli_query($conn, $sql);
```

```
?>
```

Scenario-6

```
<?php
```

```
$conn = mysqli_connect("localhost","root","","class_db");
```

#We convert it into integer to prevent harmful input like ?id=0 OR 1=1.

```
$id = intval($_GET['id']);
```

```
$sql = "DELETE FROM students WHERE id = $id";
```

```
mysqli_query($conn, $sql);
```

```
?>
```

Scenario-7

```
<?php
```

```
$conn = mysqli_connect("localhost","root","","class_db");
```

```
$id = $_POST['id'];
```

```
$email = $_POST['email'];
```

Wrap the email in quotes since it's a string ' '

Add error handling to avoid showing "Updated " if the query fails

```
$sql = "UPDATE students SET email='$email' WHERE id=$id";
```

```
if (!$res = mysqli_query($conn, $sql)) {
```

```
    echo "Error updating!";  
}  
?>
```

Scenario-8

```
<?php  
  
$conn = mysqli_connect("localhost","root","","class_db");  
  
$res = mysqli_query($conn,"SELECT * FROM students");  
  
# Use a while loop to fetch and display all students  
  
# Instead of fetching just a single row  
  
while ($row = mysqli_fetch_assoc($res)) {  
    echo $row['email'] . "<br>";  
}  
?>
```

Scenario-9

```
<?php  
  
# Get the 'id' value from the URL query string  
  
$id = $_GET['id'];  
  
?>  
  
<a href="view.php?id=3">View Student</a>
```

Scenario-10

```
<?php  
  
$age = $_POST['age'];  
  
# Use the correct variable 'age' (was misspelled as 'aeg' before)
```

```
$sql = "SELECT * FROM students WHERE age = $age";
```

```
?>
```

Scenario-11

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
<title> Scenario 11 </title>
```

```
</head>
```

```
<body>
```

```
<form method="GET" action="save.php">
```

```
<input name="email">
```

```
</form>
```

```
</body>
```

```
</html>
```

```
<?php
```

```
$email = $_GET['email'];
```

```
?>
```

Scenario-12

```
<?php
```

```
$id = $_GET['id'];
```

#'id' is a number, so we don't put quotes around it in the SQL query

```
$sql = "SELECT * FROM students WHERE id = $id";
```

```
?>
```

Scenario-13

```
<?php
$newEmail = $_POST['email'];

# Use WHERE to update only the specific student, otherwise all rows would change
$sql = "UPDATE students SET email='$newEmail' WHERE student_id=$id";
mysqli_query($conn,$sql);

?>
```

Scenario-14

```
<?php
$data = $_POST;

# Make sure array keys are correct and string values are wrapped in quotes for SQL
$sql = "INSERT INTO students (first_name, last_name, email)
VALUES ('{$data['first_name']}', '{$data['last_name']}', '{$data['email']}')";

?>
```

Scenario-15

```
<?php

# Get the page number from the URL
$page = $_GET['page'];

# Convert it to an integer to prevent invalid input
$page = intval($page);

# Make sure the page number is not negative
if ($page < 0) {
    $page = 0;
}
```

Calculate how many records to skip for pagination

`$limit = 5;`

`$offset = $page * $limit;`

Get a limited set of students for the current page

`$sql = "SELECT * FROM students LIMIT $offset, $limit";`

`?>`

