

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";
?>
```

