

Name: Pawan Pilgulwar

Roll No: 205

Batch: s5

Database Setup (MySQL):

```
CREATE DATABASE student_db;
```

```
USE student_db;
```

```
CREATE TABLE students (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(100),  
    roll_no VARCHAR(20),  
    course VARCHAR(50)  
);
```

```
INSERT INTO students (name, roll_no, course) VALUES  
( 'Mahesh', '201', 'B.Tech'),  
( 'Naga', '202', 'B.Sc'),  
( 'Sumukh', '203', 'B.Com'),  
( 'Vaishnavi', '204', 'B.Tech'),  
( 'Aarya', '205', 'B.Sc');
```

Frontend&backend: sort.php

```
<?php
```

```
$connect = new mysqli("localhost", "root", "", "student_db");
```

```
$sort_by = isset($_GET['sort_by']) ? $_GET['sort_by'] : 'name';
```

```
$order = isset($_GET['order']) && $_GET['order'] === 'desc' ? 'DESC' : 'ASC';
```

```
// Allow only valid columns to prevent SQL injection
```

```
$allowed_columns = ['name', 'roll_no', 'course'];
```

```
if (!in_array($sort_by, $allowed_columns)) {
```

```
    $sort_by = 'name';
```

```
}
```

```
$sql = "SELECT * FROM students ORDER BY $sort_by $order";
```

```
$result = $connect->query($sql);
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Sorted Student Records</title>
```

```
    <style>
```

```
        table { border-collapse: collapse; width: 60%; margin-top: 20px; }
```

```
        th, td { border: 1px solid #333; padding: 8px; text-align: center; }
```

```
        select, button { padding: 5px 10px; margin-left: 10px; }
```

```
    </style>
```

```
</head>
```

```
<body>
```

```
<h2>Student Record Sorting (Custom Names)</h2>
```

```
<form method="GET">
```

```
    <label>Sort By:</label>
```

```
    <select name="sort_by">
```

```
        <option value="name" <?= $sort_by == 'name' ? 'selected' : " ?">>Name</option>
```

```
        <option value="roll_no" <?= $sort_by == 'roll_no' ? 'selected' : " ?">>Roll No</option>
```

```
<option value="course" <?= $sort_by == 'course' ? 'selected' : " ?">>Course</option>
</select>
```

```
<label>Order:</label>
```

```
<select name="order">
```

```
<option value="asc" <?= $order == 'ASC' ? 'selected' : " ?">>Ascending</option>
```

```
<option value="desc" <?= $order == 'DESC' ? 'selected' : " ?">>Descending</option>
```

```
</select>
```

```
<button type="submit">Sort</button>
```

```
</form>
```

```
<table>
```

```
<tr>
```

```
<th>ID</th>
```

```
<th>Name</th>
```

```
<th>Roll No</th>
```

```
<th>Course</th>
```

```
</tr>
```

```
<?php
```

```
if ($result->num_rows > 0) {
```

```
while ($row = $result->fetch_assoc()) {
```

```
echo "<tr>
```

```
<td>{$row['id']}</td>
```

```
<td>{$row['name']}</td>
```

```
<td>{$row['roll_no']}</td>
```

```
<td>{$row['course']}</td>
```

```
</tr>";
```

```
}
```

```
} else {  
    echo "<tr><td colspan='4'>No data found</td></tr>";  
}  
?>  
</table>  
  
</body>  
</html>
```

OUTPUT:

Student Record Sorting (B.Tech & B.Sc)

Sort By:

Name

 Order:

Ascending

Sort

ID	Name	Roll No	Course
5	Aarya	205	B.Sc
1	Mahesh	201	B.Tech
2	Naga	202	B.Sc
3	Sumukh	203	B.Com
4	Vaishnavi	204	B.Tech

Student Record Sorting (B.Tech & B.Sc)

Sort By:

Course

 Order:

Descending

Sort

ID	Name	Roll No	Course
1	Mahesh	201	B.Tech
4	Vaishnavi	204	B.Tech
2	Naga	202	B.Sc
5	Aarya	205	B.Sc
3	Sumukh	203	B.Com

Student Record Sorting (B.Tech & B.Sc)

Sort By:

Roll No

 Order:

Ascending

Sort

ID	Name	Roll No	Course
1	Mahesh	201	B.Tech
2	Naga	202	B.Sc
3	Sumukh	203	B.Com
4	Vaishnavi	204	B.Tech
5	Aarya	205	B.Sc