

Creating Charts from Processed SQL Data

A chart is useful only when it makes a comparison or pattern easier to understand. JavaScript is a supporting technology; the assessed reasoning lies in the data choice, processing and justified output.

Prepare data in PHP

```
$labels = array_column($rows, "team_name");  
$values = array_map("intval", array_column($rows, "points"));
```

Pass encoded data safely:

```
<script>  
const labels = <?= json_encode($labels) ?>;  
const values = <?= json_encode($values) ?>;  
</script>
```

A chart library can use these arrays. Provide a visible title, axis labels, sufficient contrast and a text/table alternative.

Choose the chart

- bar chart: compare teams or categories
- line chart: change over ordered time
- avoid pie charts when many categories or close values impede comparison

Do not create a chart from raw unprocessed data when a grouped or calculated result is what users need.

Check

- ☐ Chart answers a stated question.
 - ☐ SQL/PHP processing is explainable.
 - ☐ Labels and units are present.
 - ☐ Equivalent values are available without relying only on colour or graphics.
 - ☐ Empty and extreme datasets are tested.
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