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# Choosing the Right Widget Display in Deskpro Dashboards

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When building dashboards in Deskpro, one of the most important decisions is how to display your data. The type of widget you choose determines how information is interpreted and how quickly users can draw insights.

This guide explains when to use each widget type, how it visualizes data, and includes sample DPQL queries with real examples.

## Simple Stat - Display a Single Key Metric

A **Simple Stat** widget displays one key value, such as a total, count, or percentage. Use this type when you want to emphasize a single KPI.

```
SELECT DPQL_COUNT() AS 'stat_value',
       'Tickets waiting' AS 'stat_description'
FROM tickets
WHERE tickets.status IN ('awaiting_agent', 'awaiting_user')
```

You can customize the display further with:

- `unit_left` or `unit_right` add a currency or symbol (e.g. £ or %).
- `default_value` set a fallback value if the query returns none.

Example:

```
'%' AS 'unit_right',
'0' AS 'default_value'
```

DPQL example:

```
SELECT DPQL_COUNT() AS 'stat_value',
       'Tickets waiting' AS 'stat_description',
       '%' AS 'unit_right',
       '0' AS 'default_value'
FROM tickets
WHERE tickets.status IN ('awaiting_agent', 'awaiting_user')
```

**Use this widget when:**

- Showing total open tickets
- Displaying average response or resolution times
- Tracking SLA performance percentages



## Bar and Line Charts - Compare or Track Data Over Time

**Bar charts** and **line charts** are the versatile display types. They are ideal for comparing categories or showing trends across time periods.

```
SELECT DPQL_COUNT() AS 'Number of Hotdogs'
FROM tickets
WHERE tickets.organization <> NULL AND tickets.custom_data[24] <> NULL
GROUP BY DPQL_HIERARCHY(tickets.custom_data[24], 1, 3) AS 'Type'
```

This query groups ticket data using the `DPQL_HIERARCHY()` function. It aggregates nested custom field options, for example, grouping all sub-types under “German”.

### Use this widget when:

- Comparing ticket volume by department or agent
- Tracking performance over time
- Displaying SLA compliance trends



## Layered Charts - Compare Multiple Datasets in One View

Layered charts allow you to combine multiple result sets in a single visualization using the `LAYER WITH` keyword.

This is useful when comparing related metrics, such as open and closed tickets per department.

```
SELECT
    DPQL_COUNT() AS 'Open Tickets',
    tickets.organization.name AS 'Department',
    'Tickets' AS 'value_axis_title'
FROM tickets
WHERE
    tickets.organization.name <> NULL
    AND tickets.status IN ('awaiting_user', 'awaiting_agent')
GROUP BY tickets.organization.name AS 'Department'
```

LAYER WITH

```
SELECT
    DPQL_COUNT() AS 'Closed Tickets',
    tickets.organization.name AS 'Department'
FROM tickets
WHERE
    tickets.organization.name <> NULL
    AND tickets.status = 'resolved'
GROUP BY tickets.organization.name AS 'Department'
```

You can also use `LAYER WITH LINE` to combine chart types, for example, bars for totals and a line for targets.

### Use this widget when:

- Comparing two or more datasets with the same categories
- Showing changes in open vs. closed or inbound vs. resolved counts

**Avoid using when:** only a single metric is being displayed, or when datasets differ significantly in scale.



```
FROM ticket_charges
WHERE ticket_charges.ticket.date_created = %THIS_YEAR%
```

- `stat_value` determines the current position of the needle or fill.
- `stat_total` defines the maximum range.
- `tooltip_text` adds context for the displayed value.

**Use this widget when:**

- Comparing progress against a set goal or budget
- Tracking utilization rates or performance thresholds

**Avoid using when:** you need to compare multiple categories or historical data.



## Tooltips and Templates - Enhance Readability

Tooltips and templates provide a way to customize axis labels, tooltips, and values for clearer visualization.

```
SELECT AVG(tickets.custom_data[rate_responsiveness])*5 AS 'Responsiveness',
       'Responsiveness: {{formatNumber (math value "/" 5) minimumFractionDigits=0
maximumFractionDigits=1}} out of 5' AS 'tooltip_text_template'
FROM tickets
WHERE tickets.custom_data[rate_responsiveness].value <> NULL
      AND tickets.custom_data[external_lawyer] <> NULL
GROUP BY DPQL_HIERARCHY(tickets.custom_data[external_lawyer], 1) AS 'Firm'
```

Template functions include:

- `formatCurrency` - displays numeric values as currency.
- `formatNumber` - adds digit grouping and decimals.
- `formatPercent` - converts fractions to percentages.
- `math` - performs simple operations within the template.

When layering datasets:

- First layer uses `{{value}}`, `{{category}}`
- Second uses `{{0_value}}`, `{{0_category}}`
- Third uses `{{1_value}}`, etc.



## Advanced Example - Four-Layer Template Query

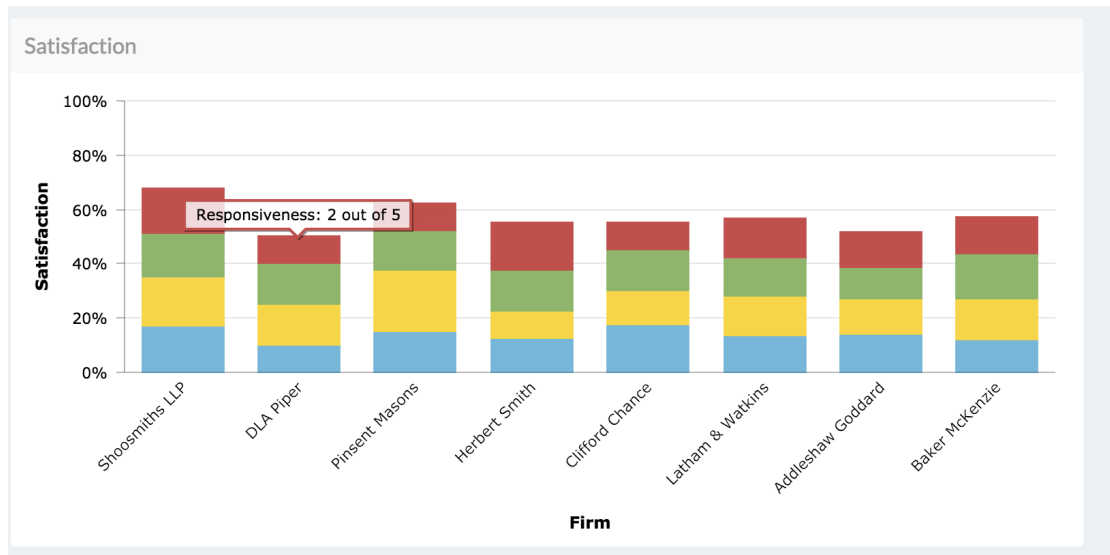
The following query shows how to create a chart that layers four metrics, each with its own tooltip template. Each layer calculates the average rating for a different metric, such as responsiveness or friendliness.

```
SELECT
    AVG(tickets.custom_data[rate_responsiveness])*5 AS 'Responsiveness',
    'Responsiveness: {{formatNumber (math value "/" 5) minimumFractionDigits=0
maximumFractionDigits=1}} out of 5' as 'tooltip_text_template'
FROM tickets
WHERE
    tickets.custom_data[rate_responsiveness].value <> NULL
    AND tickets.custom_data[external_lawyer] <> NULL
GROUP BY DPQL_HIERARCHY(tickets.custom_data[external_lawyer], 1) AS 'Firm'

LAYER WITH
SELECT
    AVG(tickets.custom_data[rate_commerciality])*5 AS 'Commerciality',
    'Commerciality: {{formatNumber (math 0_value "/" 5) minimumFractionDigits=0
maximumFractionDigits=1}} out of 5' as 'tooltip_text_template'
FROM tickets
WHERE
    tickets.custom_data[rate_commerciality].value <> NULL
    AND tickets.custom_data[external_lawyer] <> NULL
GROUP BY DPQL_HIERARCHY(tickets.custom_data[external_lawyer], 1) AS 'Firm'

LAYER WITH
SELECT
    AVG(tickets.custom_data[rate_value])*5 AS 'Value',
    'Value: {{formatNumber (math 1_value "/" 5) minimumFractionDigits=0
maximumFractionDigits=1}} out of 5' as 'tooltip_text_template'
FROM tickets
WHERE
    tickets.custom_data[rate_value].value <> NULL
    AND tickets.custom_data[external_lawyer] <> NULL
GROUP BY DPQL_HIERARCHY(tickets.custom_data[external_lawyer], 1) AS 'Firm'

LAYER WITH
SELECT
    AVG(tickets.custom_data[rate_friendliness])*5 AS 'Friendliness',
    'Friendliness: {{formatNumber (math 2_value "/" 5) minimumFractionDigits=0
maximumFractionDigits=1}} out of 5' as 'tooltip_text_template'
FROM tickets
WHERE
    tickets.custom_data[rate_friendliness].value <> NULL
    AND tickets.custom_data[external_lawyer] <> NULL
GROUP BY DPQL_HIERARCHY(tickets.custom_data[external_lawyer], 1) AS 'Firm'
```



## Summary

Each widget type in Deskpro serves a distinct purpose:

Goal	Best Widget	Key DPQL Function
Display a single KPI	Simple Stat	DPQL_COUNT() AS 'stat_value', 'Tickets this month' AS 'stat_description'
Compare categories or time periods	Bar / Line	GROUP BY, LAYER WITH
Show proportions	Pie	GROUP BY
Track progress against targets	Gauge	stat_total, DPQL_FORMAT
Display detailed data	Table	GROUP BY with multiple fields