Database query designer

Framework NET Genium
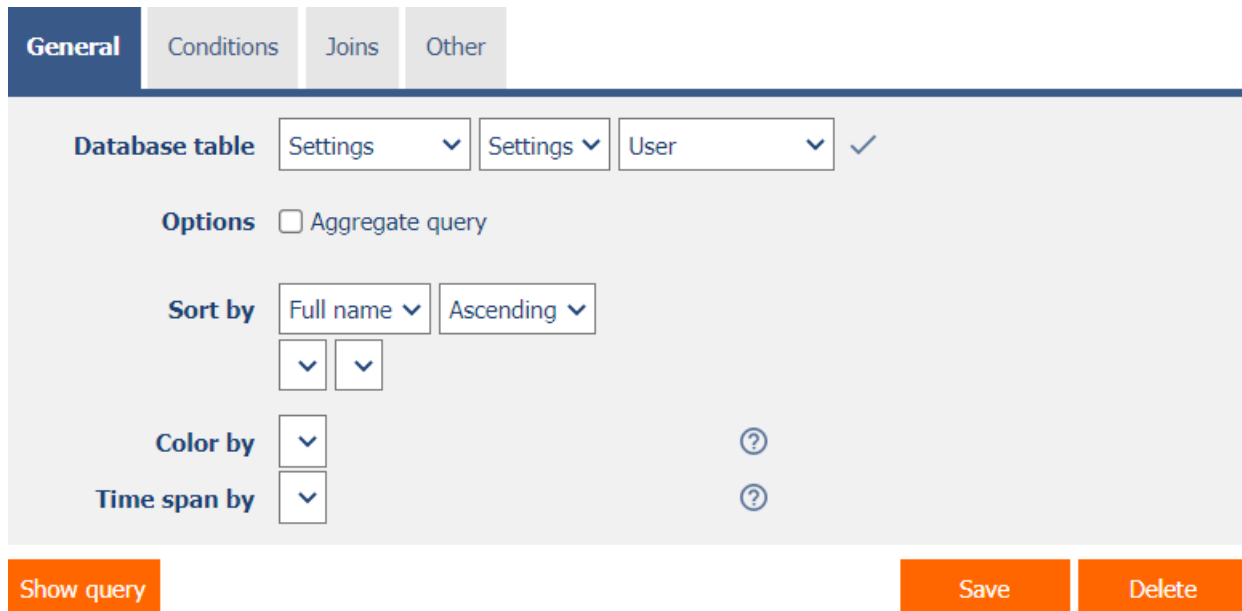
Content

1 List of tabs in the settings dialog database query

General	Setting general properties
Conditions	Definition of restrictive conditions
Joins	Definition of joins
Columns	Aggregate table column definitions
Headers	Aggregate table header definitions
Colors	Graph color definition
Other	Setting other properties

1.1 "General" tab

1.1.1 Database table

- Select the edit form from whose database table the records stored in the database will be retrieved.

1.1.2 Options

- **Aggregate query** - Checking this box determines whether the query should result in an aggregated data set compiled using grouping.

1.1.3 Sort by

- Selection of the column according to which the database records will be sorted, including the sorting method – ascending (ASC) or descending (DESC).
- Optional selection of the second column according to which the database records will be sorted, including the sorting method – ascending (ASC) or descending (DESC).
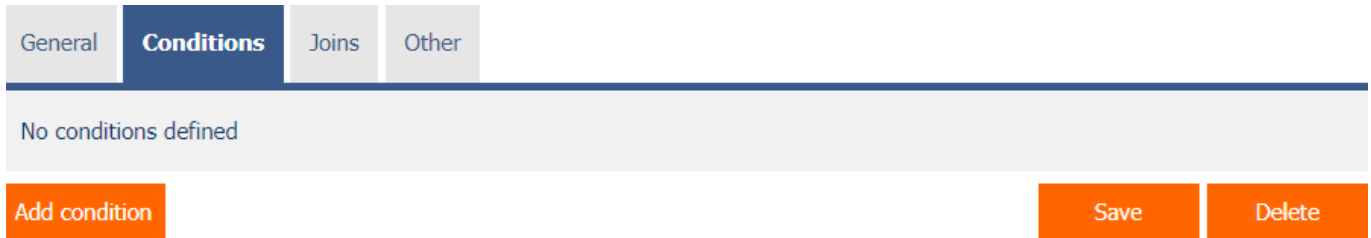
1.1.4 Color by

- A column selection that determines whether and by which column a colored rectangle will appear in each view table.

1.1.5 Time span by

- Column selection, which determines whether and according to which column a filter for selecting the "from-to" time period will be displayed above the view table.

1.2 "Conditions" tab

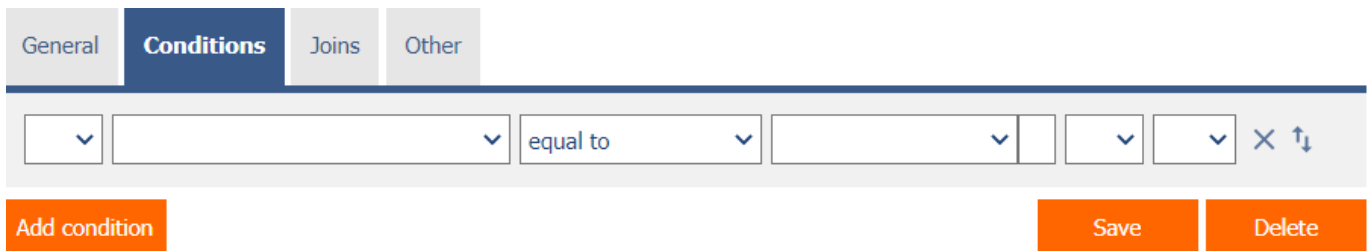| General	**Conditions**	Joins	Other

No conditions defined

Add condition   Save   Delete

- Definitions of query constraints that follow the "WHERE" clause of a database query.

1.2.1 Add condition

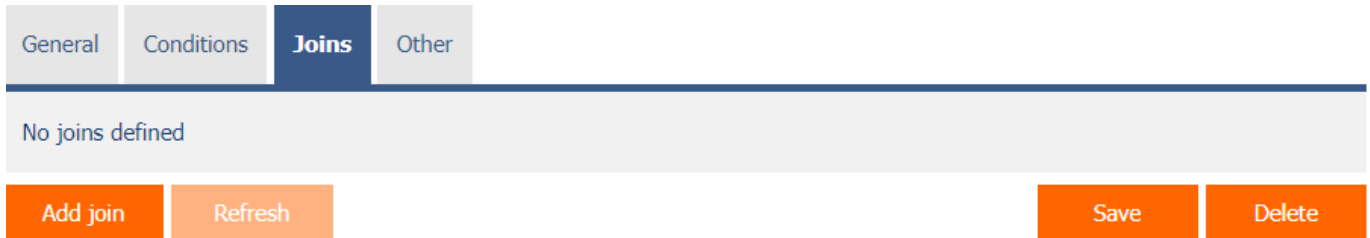- You can use the "Add condition" button to add a new query condition.

General	**Conditions**	Joins	Other

equal to

Add condition   Save   Delete

1.3 "Joins" tab

| General | Conditions | **Joins** | Other |

No joins defined

Add join   Refresh   Save   Delete

- Definitions of joins that are built using the "JOIN" clause of a database query.

1.3.1 Add join

- You can use the "Add join" button to add a new query join.

| General | Conditions | **Joins** | Other |

Left join ∨   J1   (None) ∨   (None) ∨   (None) ∨   (ID) (J1) ∨   =   ∨   ∨   ✕ ⇅

Add join   Refresh   Save   Delete

1.3.2 Refresh

- Using the "Refresh" button, the list of columns on the left and right side of the condition is updated based on the selected accepted table.

1.4 "Columns" tab

General	Conditions	Joins	**Columns**	Headers	Other

No columns defined

Add column   Save   Delete

↖ *Only when the "Aggregate query" box is checked*

- Definition of the columns of the resulting aggregation table.

1.4.1 Add column
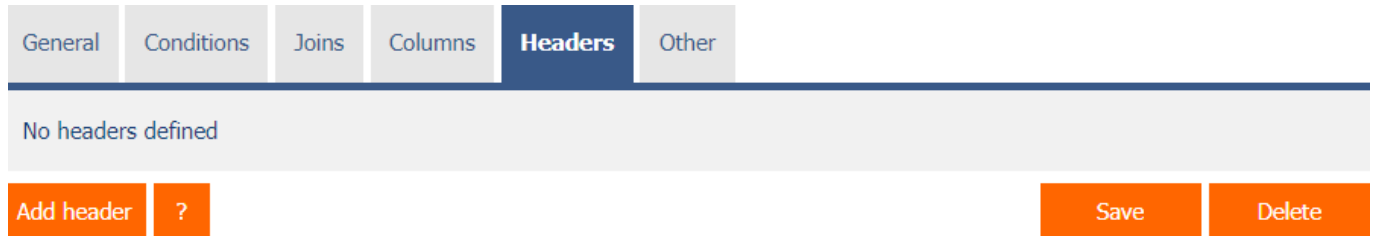
- Using the "Add column" button, it is possible to add a new column to the resulting aggregation table.

General	Conditions	Joins	**Columns**	Headers	Other

0.	Day	... day ⌄	Created on ⌄	Centre ⌄	✕ ↑↓
1.	Count	Count ⌄		Centre ⌄	**Conditions (0)** ✕ ↑↓

Add column   Save   Delete

1.5 "Headers" tab

General	Conditions	Joins	Columns	**Headers**	Other

No headers defined

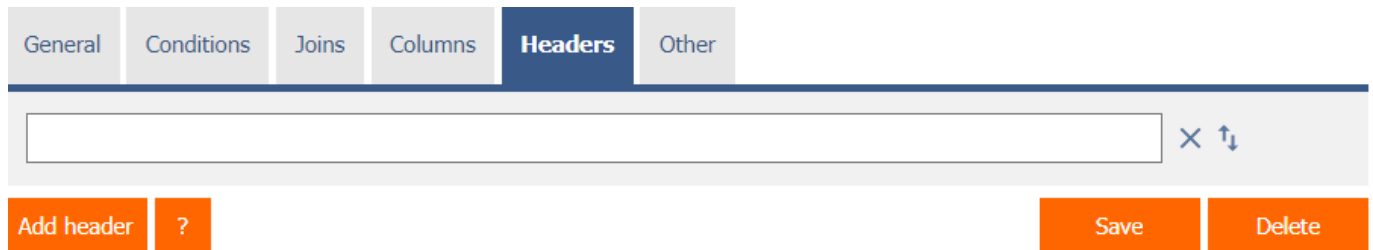Add header | ?   Save | Delete

🔨 *Only when the "Aggregate query" box for the "DataGrid" or "LiteDataGrid" control is checked*

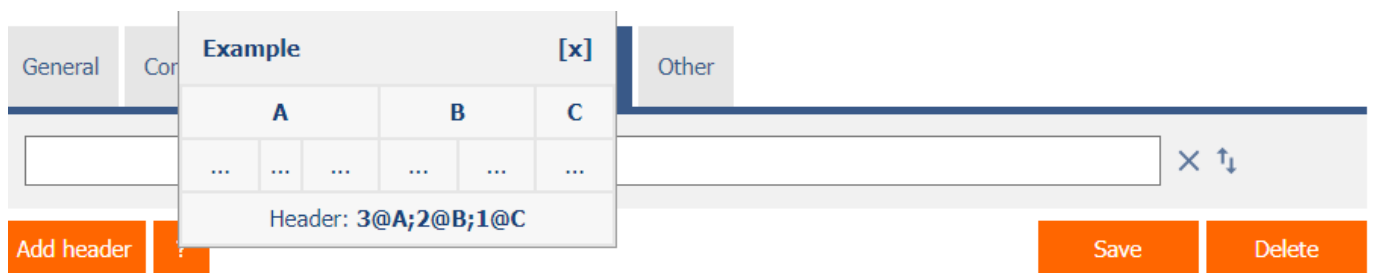- Definition of the headers of the resulting aggregation table.

1.5.1 Add header

- Using the "Add header" button, it is possible to add a new header to the resulting aggregation table.

General	Conditions	Joins	Columns	**Headers**	Other

× ↑↓

Add header | ?   Save | Delete

1.5.2 ?

- Use the "?" Button to display header syntax help.
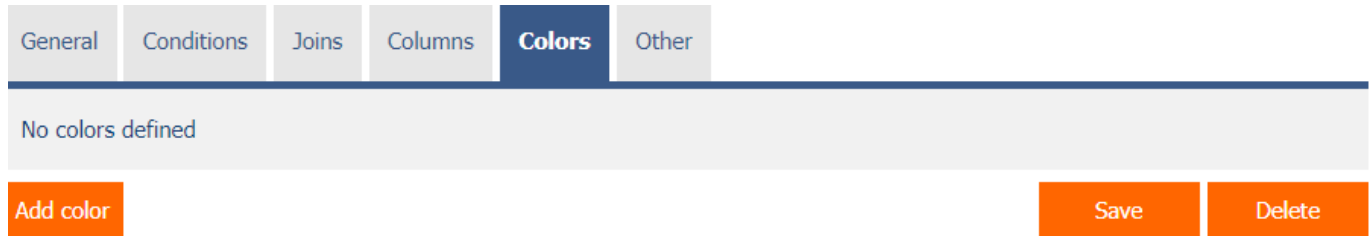
General	Con...			Other

Example [x]

	A		B		C
...	...	...	...	...	...

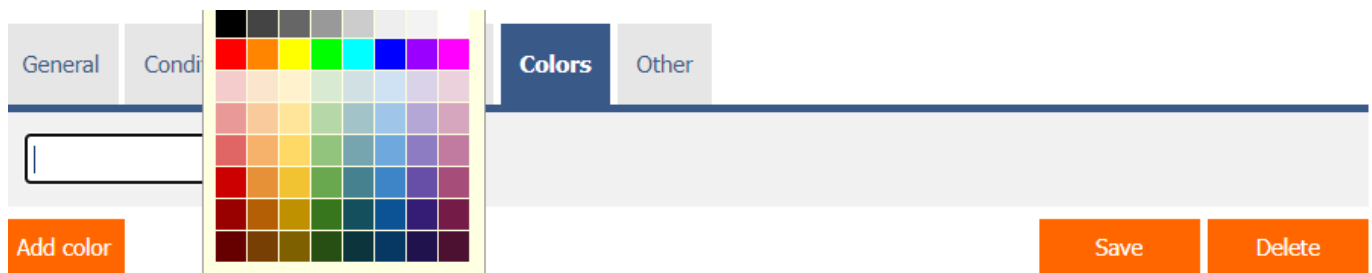Header: 3@A;2@B;1@C

Add header | ?   Save | Delete

1.6 "Colors" tab

🔨 *Chart control only*

- Definition of colors that will be used to draw individual columns of the chart.

1.6.1 Add color

- Use the "Add color" button to add a new chart color.

1.7 "Other" tab

1.7.1 Template name

- The template name is used to name the database query with the option to copy it when creating other database queries with the same source database table.
- When creating a new database query, all available templates are available in the "Templates" drop-down list on the "General" tab. After selecting a template, all parameters of the database query will be automatically pre-filled with data from the selected template.
- A list of all database queries that are marked as templates can be displayed using a report. A detailed description of the reports is given in a separate manual "Reports".

1.7.2 Notes

- Notes are used to enter any text intended for the application administrator.

1.7.3 Load only first

- Limitation of the maximum number of records retrieved by a database query resp. the SQL equivalent of the TOP() or FIRST() statement.

1.7.4 Remove records with duplicate

- Selects the column according to which duplicate rows in the retrieved data set will be evaluated, and these rows will then be removed from this set.

1.7.5 Options

- **ngef(NETGenium.DataTable)**

  - The result of a database query is always a set of data from the database, temporarily stored in an object of type "DataTable". This data set is then passed to the individual controls for evaluation or visualization.
  - Checking this box determines whether an external function should be run before passing the "DataTable" object to the control, which has the option to change the properties of this object – add rows, change values in individual columns, or delete rows.

1.7.6 Logging

- Using the "Logging" button, a detailed report is displayed with individual records of database query calls and data about

  - the date and time the query was started,
  - the user who initiated the query
  - query processing time in milliseconds,
  - the number of records returned, and
  - specific SQL query.

- The number of records is limited to 100 by default. This number can be manually increased or decreased by changing the "maxrows" parameter in the report URL.