### boxplot

Calculates the minimum, maximum, and quartile required to draw a box plot.

#### Syntax

boxplot EXPR [by GRP\_FIELD, ...]

Required Parameter

**EXPR**

An expression that is subject to the statistics.

Optional Parameter

**by GRP\_FIELD, ...**

Grouping fields in the aggregation, separated by a comma (,). This option MUST follow after the EXPR option.

#### Description

The output fields are as follows:

1. **count**: Total number of records belonging to GRP\_FIELD. Without GRP\_FIELD, count the total number of records.
2. **GRP\_FIELD**: Value of group field entered in the by clause
3. **iqr1**: First quartile for each group. The median value of the lowest 50% based on the median value, the lowest 25% of the total data
4. **iqr2**: Second quartile for each group (median value). The most central value when the data is sorted in order
5. **iqr3**: Third quartile for each group. The median value of the highest 50% based on the median value, the highest 25% of the total data
6. **max**: Maximum value for each group
7. **min**: Minimum value for each group

#### Usage

Five-number summary for overall CPU load.

table sys\_cpu\_logs | eval usage = kernel + user | boxplot usage

Five-number summary for CPU load by date.

table sys\_cpu\_logs | eval day = string(\_time, "yyyy-MM-dd") | eval usage = kernel + user | boxplot usage by day