**OP12:** Distribution of observation period length

This query is used to provide summary statistics for the observation period length across all observation period records: the mean, the standard deviation, the minimum, the 25th percentile, the median, the 75th percentile, the maximum and the number of missing values. The length of an is defined as the difference between the start date and the end date. No input is required for this query.

**Sample query:**

SELECT

min( period\_length ) OVER() AS min\_period,

max( period\_length ) OVER() AS max\_period,

round( avg( period\_length ) OVER(), 2 ) AS avg\_period,

round( stdDev( period\_length ) OVER(), 1 ) AS stdDev\_period,

PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY period\_length ) OVER() AS percentile\_25,

PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY period\_length ) OVER() AS median,

PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY period\_length ) OVER() AS percentile\_75

FROM /\* period\_length \*/

(

SELECT

observation\_period\_end\_date - observation\_period\_start\_date + 1 AS period\_length

FROM

observation\_period

)

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| min\_period | Minimum observation period duration in days |
| max\_period | Maximum observation period duration in days |
| avg\_period | Average observation period in days |
| stdDev\_period | Standard deviation of observation period days |
| percentile\_25 | 25th percentile of observation period days |
| median | Median value of of observation period |
| percentile\_75 | 25th percentile of observation period days |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| min\_period | 1 |
| max\_period | 2372 |
| avg\_period | 655.91 |
| stdDev\_period | 501 |
| percentile\_25 | 365 |
| median | 487 |
| percentile\_75 | 731 |