### OP08: Distribution of observation period records per person

Counts the number of observation period records (observation\_period\_id) for all persons: the mean, the standard deviation, the minimum, the 25th percentile, the median, the 75th percentile, the maximum and the number of missing values. There is no input required for this query.

**Sample query:**

WITH obser\_person AS

(

SELECT person\_id,

count(\*) as observation\_periods

FROM observation\_period

JOIN person USING( person\_id )

GROUP BY person\_id

)

SELECT min( observation\_periods ) AS min\_periods ,

max( observation\_periods ) AS max\_periods ,

round( avg( observation\_periods ), 2 ) AS avg\_periods ,

round( stdDev( observation\_periods ), 1 ) AS stdDev\_periods ,

(SELECT DISTINCT PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY observation\_periods ) OVER() FROM obser\_person) AS percentile\_25 ,

(SELECT DISTINCT PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY observation\_periods ) OVER() FROM obser\_person) AS median ,

(SELECT DISTINCT PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY observation\_periods ) OVER() FROM obser\_person) AS percentile\_75

FROM

obser\_person

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| min\_periods | Minimum number of periods |
| max\_periods | Maximum number of periods |
| avg\_periods | Average number of periods |
| stdDev\_periods | Standard Deviation of periods |
| percentile\_25 | 25th percentile of periods |
| median | Median of periods |
| percentile\_75 | 75th percentile of periods |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| min\_periods | 1 |
| max\_periods | 10 |
| avg\_periods | 1.12 |
| stdDev\_periods | 0.30 |
| percentile\_25 | 1 |
| median | 1 |
| percentile\_75 | 1 |