**OP11:** Distribution of observation period end dates

This query is used to to provide summary statistics for observation period end dates (observation\_period\_end\_date) 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. No input is required for this query.

**Sample query:**

WITH op AS

( SELECT to\_number( to\_char( observation\_period\_end\_date, 'J' ), 9999999 )::INT AS end\_date

FROM observation\_period)

SELECT to\_date( min( end\_date ), 'J' ) AS min\_end\_date

, to\_date( max( end\_date ), 'J' ) AS max\_end\_date

, to\_date( round( avg( end\_date ) ), 'J' ) AS avg\_end\_date

, round( stdDev( end\_date ) ) AS stdDev\_end\_days

, to\_date( (SELECT DISTINCT PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY end\_date ) OVER () FROM op), 'J' ) AS percentile\_25

, to\_date( (SELECT DISTINCT PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY end\_date ) OVER () FROM op), 'J' ) AS median

, to\_date( (SELECT DISTINCT PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY end\_date ) OVER () FROM op), 'J' ) AS percentile\_75

FROM op; /\* end\_date \*/

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| min\_end\_date | Minimum value of observation period end date |
| max\_end\_date | Maximum value of observation  period end date |
| avg\_end\_date | Average value of observation period end date |
| stdDev\_end\_date | Standard deviation of observation period end date |
| percentile\_25 | 25th percentile of observation period end date |
| median | Median value of observation period end date |
| percentile\_75 | 75th percentile of observation period end date |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| min\_end\_date | 1/31/2003 |
| max\_end\_date | 6/30/2011 |
| avg\_end\_date | 11/21/2009 |
| stdDev\_end\_date | 614 |
| percentile\_25 | 12/31/2008 |
| median | 12/31/2009 |
| percentile\_75 | 12/31/2010 |