**OP13:** Distribution of observation period start dates

This query is used to to provide summary statistics for observation period start dates (observation\_period\_start\_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\_start\_date, 'J' ), 9999999)::INT AS start\_date FROM observation\_period )

SELECT

to\_date( min( start\_date ), 'J' ) AS min\_start\_date ,

to\_date( max( start\_date ), 'J' ) AS max\_start\_date ,

to\_date( round( avg( start\_date ) ), 'J' ) AS avg\_start\_date ,

round( stdDev( start\_date ) ) AS stdDev\_days,

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

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

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

FROM

op

;

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| min\_start\_date | Minimum start date value |
| max\_start\_date | Maximum start date value |
| avg\_start\_date | Average start date value |
| stdDev\_days | Standard Deviation of start date |
| percentile\_25 | 25th percentile of start date |
| median | Median of start date |
| percentile\_75 | 75th percentile of start date |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| min\_start\_date | 1/1/2003 |
| max\_start\_date | 6/30/2011 |
| avg\_start\_date | 2/5/2008 |
| stdDev\_days | 741 |
| percentile\_25 | 1/1/2006 |
| median | 1/1/2009 |
| percentile\_75 | 1/1/2010 |