**DER11:** Distribution of drug era start dates

This query is used to to provide summary statistics for drug era start dates (drug\_era\_start\_date) across all drug era 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:**

SELECT distinct min(tt.start\_date) over () AS min\_date , max(tt.start\_date) over () AS max\_date ,

avg(tt.start\_date\_num) over () + tt.min\_date AS avg\_date , (round(stdDev(tt.start\_date\_num) over ())) AS stdDev\_days ,

tt.min\_date +

(PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY tt.start\_date\_num ) over ()) AS percentile\_25\_date

, tt.min\_date + (PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY tt.start\_date\_num ) over() ) AS median\_date

, tt.min\_date + (PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY tt.start\_date\_num ) over() ) AS percential\_75\_date

FROM (

SELECT (t.drug\_era\_start\_date - MIN(t.drug\_era\_start\_date) OVER()) AS start\_date\_num, t.drug\_era\_start\_date AS start\_date, MIN(t.drug\_era\_start\_date) OVER() min\_date

FROM drug\_era t ) tt

GROUP BY tt.start\_date, tt.start\_date\_num, tt.min\_date;

**Input:**

None

**Output:**

|  |
| --- |
|  |
| **Field** | **Description** |
| Min\_date | Minimum drug era start date across all drug era records |
| Max\_date | Maximum drug era start date across all drug era records |
| Avg\_date | Average drug era start date across all drug era records |
| Stddev\_days | Standard deviation of drug era start date across all drug era records |
| percentile\_25\_date | 25th percentile of the drug era start date |
| median\_date | Median of the drug era start date |
| percentile\_75\_date | the 75th percentile of the drug era start date |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| Min\_date | 1997-01-01 00:00:00 |
| Max\_date | 2017-12-31 00:00:00 |
| Avg\_date | 2007-07-02 00:00:00 |
| Stddev\_days | 2214 |
| percentile\_25\_date | 2002-04-02 00:00:00 |
| median\_date | 2007-07-02 00:00:00 |
| percentile\_75\_date | 2012-10-01 00:00:00 |