**DER10:** Distribution of drug era end dates

This query is used to to provide summary statistics for drug era end dates (drug\_era\_end\_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.end\_date) over () AS min\_date

, max(tt.end\_date) over () AS max\_date

, (avg(tt.end\_date\_num) over ()) + tt.min\_date AS avg\_date

, (round(stdDev(tt.end\_date\_num)) ) AS stdDev\_days

, tt.min\_date + (PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY tt.end\_date\_num ) over ())

AS percentile\_25\_date

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

AS median\_date

, tt.min\_date + (PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY tt.end\_date\_num ) over ())

AS percential\_75\_date

FROM

( SELECT (t.drug\_era\_end\_date - MIN(t.drug\_era\_end\_date) OVER()) AS end\_date\_num,

t.drug\_era\_end\_date AS end\_date,

MIN(t.drug\_era\_end\_date) OVER() min\_date

FROM drug\_era t

) tt

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

**Input:**

None

**Output:**

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

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| Min\_date | 2006-01-01 00:00:00 |
| Max\_date | 2017-09-30 00:00:00 |
| Avg\_date | 2011-11-16 00:00:00 |
| percentile\_25\_date | 2008-12-08 00:00:00 |
| median\_date | 2011-11-16 00:00:00 |
| percentile\_75\_date | 2014-10-24 00:00:00 |