DEX41: Distribution of drug exposure start date, stratified by drug

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| This query is used to provide summary statistics for start dates (drug\_exposure\_start\_date) across all drug exposure records stratified by drug (drug\_concept\_id): the mean, the standard deviation, the minimum, the 25th percentile, the median, the 75th percentile, the maximum and the number of missing values. The input to the query is a value (or a comma-separated list of values) of a drug\_concept\_id. If the input is omitted, the drug\_exposure\_start\_date for all existing values of drug\_concept\_id are summarized.  **Input:**   |  |  |  |  | | --- | --- | --- | --- | | **Parameter** | **Example** | **Mandatory** | **Notes** | | drug\_concept\_id | 906805, 1517070, 19010522 | Yes |  |   **Sample query run:** The following is a sample run of the query. The input parameters are highlighted in **blue**  SELECT  tt.drug\_concept\_id ,  min(tt.start\_date) AS min\_date ,  max(tt.start\_date) AS max\_date ,  avg(tt.start\_date\_num) + tt.min\_date AS avg\_date ,  (round(stdDev(tt.start\_date\_num)) ) AS stdDev\_days ,  tt.min\_date + (APPROXIMATE PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY tt.start\_date\_num ) ) AS percentile\_25\_date ,  tt.min\_date + (APPROXIMATE PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY tt.start\_date\_num ) ) AS median\_date ,  tt.min\_date + (APPROXIMATE PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY tt.start\_date\_num ) ) AS percential\_75\_date  FROM (  SELECT  (t.drug\_exposure\_start\_date - MIN(t.drug\_exposure\_start\_date) OVER(partition by t.drug\_concept\_id)) AS start\_date\_num,  t.drug\_exposure\_start\_date AS start\_date,  MIN(t.drug\_exposure\_start\_date) OVER(partition by t.drug\_concept\_id) min\_date,  t.drug\_concept\_id  FROM  drug\_exposure t  where t.drug\_concept\_id in (**906805, 1517070, 19010522**)  ) tt  GROUP BY tt.min\_date , tt.drug\_concept\_id order by tt.drug\_concept\_id ;  **Output:** Output field list:   |  |  | | --- | --- | | **Field** | **Description** | | drug\_concept\_id | A foreign key that refers to a standard concept identifier in the vocabulary for the drug concept. | | min\_value |  | | max\_value |  | | avg\_value |  | | stdDev\_value |  | | percentile\_25 |  | | median\_value |  | | percentile\_75 |  |   Sample output record:   |  |  | | --- | --- | | **Field** | **Description** | | drug\_concept\_id |  | | min\_value |  | | max\_value |  | | avg\_value |  | | stdDev\_value |  | | percentile\_25 |  | | median\_value |  | | percentile\_75 |  | |