DEX09: Distribution of distinct drugs per person over some time period

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| This query is to determine the distribution of distinct drugs patients are exposed to during a certain time period. If the time period is omitted, the entire time span of the database is considered.  **Input:**   |  |  |  |  | | --- | --- | --- | --- | | **Parameter** | **Example** | **Mandatory** | **Notes** | | date from | 01-Jan-2008 | Yes |  | | date to | 31-Dec-2008 | Yes |  |   **Sample query run:** The following is a sample run of the query. The input parameters are highlighted in **blue**.  SELECT MIN ( drugs ) AS min ,  approximate PERCENTILE\_DISC(0.25) WITHIN GROUP( ORDER BY drugs ) as percentile\_25,  ROUND ( AVG ( drugs ), 2 ) AS mean,  approximate PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY drugs ) AS median ,  approximate PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY drugs ) AS percential\_75,  MAX ( drugs ) AS max,  ROUND ( STDDEV ( drugs ), 1 ) AS stdDev  FROM (SELECT person\_id, NVL( drugs, 0 ) AS drugs FROM person JOIN  ( SELECT person\_id, COUNT( DISTINCT drug\_concept\_id ) AS drugs FROM drug\_exposure  WHERE drug\_exposure\_start\_date BETWEEN **'2017-01-01'** AND **'2017-12-31'** GROUP BY person\_id ) USING( person\_id ) );  **Output:** Output field list:   |  |  | | --- | --- | | **Field** | **Description** | | min | The minimum number of drugs taken by a patient | | percentile\_25 | The 25th percentile of the distibution | | mean | The mean or average of drugs taken by patients | | median | The median number of drugs take | | percentile\_75 | The 75th percentile of the distribution | | max | The maximum number of drugs taken by a patient | | stddev | The standard deviation of the age distribution |   Sample output record:   |  |  | | --- | --- | | **Field** | **Content** | | min | 0 | | percentile\_25 | 0 | | mean | 1.73 | | median | 0 | | percentile\_75 | 1 | | max | 141 | | stddev | 4.2 | |