**DER20:** Counts of drugs, stratified by drug type and drug exposure count

This query is used to count drugs (drug\_concept\_id) across all drug exposure records stratified by drug exposure type (drug\_type\_concept\_id, in CDM V2 drug\_exposure\_type) and drug exposure count (drug\_exposure\_count) for each era. The input to the query is a value (or a comma-separated list of values) of a drug\_concept\_id, a drug\_type\_concept\_id and a drug\_exposure\_count. If the input is omitted, all existing value combinations are summarized.

**Sample query:**

with tt as (

SELECT

extract(year from (min(t.drug\_era\_start\_date) over(partition by t.person\_id, t.drug\_concept\_id))) - p.year\_of\_birth as stat\_value,

t.drug\_concept\_id

FROM

drug\_era t,

person p

where

t.person\_id = p.person\_id and

t.drug\_concept\_id in (1300978, 1304643, 1549080) --input

)

SELECT

tt.drug\_concept\_id,

min(tt.stat\_value) AS min\_value,

max(tt.stat\_value) AS max\_value,

avg(tt.stat\_value) AS avg\_value,

(round(stdDev(tt.stat\_value)) ) AS stdDev\_value ,

(select distinct PERCENTILE\_DISC(0.25) WITHIN GROUP(ORDER BY tt.stat\_value) OVER() from tt) AS percentile\_25,

(select distinct PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY tt.stat\_value) OVER() from tt) AS median\_value,

(select distinct PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY tt.stat\_value) OVER() from tt) AS percential\_75

FROM tt

group by drug\_concept\_id;

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Example** | **Mandatory** | **Notes** |
| concept\_id |  | Yes |  |
| drug\_exposure\_count |  | Yes |  |

**Output:**

|  |  |
| --- | --- |
| **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 | 1300978 |
| min\_value | 0 |
| max\_value | 89 |
| avg\_value | 65 |
| stddev\_value | 14 |
| percentile\_25 | 59 |
| median\_value | 70 |
| percentile\_75 | 80 |