**DER21:** Counts of drugs, stratified by year, age group and gender

This query is used to count drugs (drug\_concept\_id) across all drug era records stratified by year, age group and gender (gender\_concept\_id). The age groups are calculated as 10 year age bands from the age of a person at the drug era start date. The input to the query is a value (or a comma-separated list of values) of a drug\_concept\_id , year, age\_group (10 year age band) and gender\_concept\_id. If the input is omitted, all existing value combinations are summarized.

**Sample query:**

SELECT

tt.drug\_concept\_id,

count(1) as s\_count,

tt.age\_band,

tt.year\_of\_Era,

tt.gender\_concept\_id

from (

SELECT

floor( (extract(year from t.drug\_era\_start\_date ) - p.year\_of\_birth )/10 ) as age\_band,

extract(year from t.drug\_era\_start\_date) as year\_of\_era,

p.gender\_concept\_id,

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)

) tt

where

tt.age\_band in(3,4) and

tt.year\_of\_Era in( 2007, 2008)

group by

tt.age\_band,

tt.year\_of\_Era,

tt.gender\_concept\_id,

tt.drug\_concept\_id

order by

tt.age\_band,

tt.year\_of\_Era,

tt.gender\_concept\_id,

tt.drug\_concept\_id

;

**Input:**

|  |
| --- |
|  |
| **Parameter** | **Example** | **Mandatory** | **Notes** |
| list of concept\_id | 1300978, 1304643, 1549080 | Yes |  |
| list of year\_of\_era | 2007, 2008 | Yes |  |

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| drug\_concept\_id | A foreign key that refers to a standard concept identifier in the vocabulary for the drug concept. |
| s\_count | Count of drug group by age and gender |
| age\_band | The number of individual drug exposure occurrences used to construct the drug era. |
| year\_of\_era | A foreign key to the predefined concept identifier in the vocabulary reflecting the type of drug exposure recorded. It indicates how the drug exposure was represented in the source data: as medication history, filled prescriptions, etc. |
| gender\_concept\_id | A foreign key that refers to a standard concept identifier in the vocabulary for the gender of the person. |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| drug\_concept\_id | 1304643 |
| s\_count | 5 |
| age\_band | 3 |
| year\_of\_era | 2007 |
| gender\_concept\_id | 8507 |