**OP16:** Count of genders, stratified by year and age group

This query is used to count the genders (gender\_concept\_id) across all observation period records stratified by year and age group. The age groups are calculated as 10 year age bands from the age of a person at the observation period start date. All possible value combinations are summarized.

**Sample query:**

SELECT

observation\_year,

age\_group,

gender,

count(\*) AS num\_people

FROM (

SELECT DISTINCT

person\_id ,

EXTRACT( YEAR from observation\_period\_start\_date ) AS observation\_year

FROM observation\_period

)

JOIN (

SELECT

person\_id,

gender ,

CAST(FLOOR( age / 10 ) \* 10 AS VARCHAR)||' to '||CAST(( FLOOR( age / 10 ) \* 10 ) + 9 AS VARCHAR) AS age\_group

FROM (

SELECT

person\_id,

NVL( concept\_name, 'MISSING' ) AS gender,

year\_of\_birth ,

extract( YEAR FROM first\_observation\_date ) - year\_of\_birth AS age

FROM (

SELECT

person\_id,

gender\_concept\_id,

year\_of\_birth ,

min( observation\_period\_start\_date ) AS first\_observation\_date

FROM

observation\_period

JOIN person USING( person\_id )

GROUP BY

person\_id,

gender\_concept\_id,

year\_of\_birth

)

LEFT OUTER JOIN concept ON concept\_id = gender\_concept\_id

WHERE year\_of\_birth IS NOT NULL

)

WHERE age >= 0

) USING( person\_id )

GROUP BY

observation\_year,

age\_group,

gender

ORDER BY

observation\_year,

age\_group,

gender;

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| observation\_year | Year of observation |
| age\_group | Group of person by age |
| gender | Gender concept name |
| num\_people | Number of people within year of observation, age group and gender |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| observation\_year | 2003 |
| age\_group | 10 to 19 |
| gender | MALE |
| num\_people | 12060 |