### OP10: Observation period records stratified by observation month

### Counts the observation period records stratified by observation month. All possible values are summarized.

**Sample query:**

SELECT

month,

sum( observations ) AS num\_observations

FROM (

SELECT

person\_id,

start\_date,

end\_date ,

month ,

min\_count,

remainder ,

start\_month,

DECODE( SIGN(start\_month + remainder - 12), -1, start\_month + remainder, 12) end1 ,

1,

start\_month + remainder - 12 end2 ,

min\_count + CASE

WHEN MONTH >= start\_month AND MONTH <= DECODE( SIGN(start\_month + remainder - 12), -1, start\_month + remainder, 12) THEN 1

WHEN MONTH >= 1 AND MONTH <= start\_month + remainder - 12 THEN 1

ELSE 0

END AS observations

FROM (

SELECT 1 AS month

UNION SELECT 2

UNION SELECT 3

UNION SELECT 4

UNION SELECT 5

UNION SELECT 6

UNION SELECT 7

UNION SELECT 8

UNION SELECT 9

UNION SELECT 10

UNION SELECT 11

UNION SELECT 12 )

CROSS JOIN (

SELECT

person\_id,

start\_date,

end\_date ,

min\_count,

start\_month,

remainder

FROM (

SELECT

person\_id,

observation\_period\_start\_date start\_date ,

observation\_period\_end\_date as end\_date ,

round(months\_between( observation\_period\_end\_date, observation\_period\_start\_date ) ) AS months /\* number of complete years \*/ ,

floor( round(months\_between( observation\_period\_end\_date, observation\_period\_start\_date ) ) / 12 ) AS min\_count ,

extract( month from observation\_period\_start\_date ) start\_month ,

mod( cast(round(months\_between( observation\_period\_end\_date, observation\_period\_start\_date ) ) AS integer), 12 ) AS remainder

FROM

observation\_period

)

)

) GROUP BY month order by month;

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| month | Month number 1-12 |
| num\_observations | Number of observation in a specific month |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| month | 1 |
| num\_observations | 12266979 |