### CE08: Number of comorbidity for patients with condition

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| Meaningful text  **Input:**   |  |  |  |  | | --- | --- | --- | --- | | **Parameter** | **Example** | **Mandatory** | **Notes** | | condition\_era\_end\_date |  |  |  |   **Sample query run:** The following is a sample run of the query. The input parameters are highlighted in **blue**  WITH SNOMed\_diabetes AS (  SELECT DISTINCT descendant\_concept\_id AS snomed\_diabetes\_id  FROM source\_to\_concept\_map map  JOIN concept\_ancestor ON ancestor\_concept\_id = target\_concept\_id  WHERE  source\_vocabulary\_id = 2 /\* icd9 \*/ AND  target\_vocabulary\_id = 1 /\* SNOMed \*/ AND  source\_code LIKE '250.%' AND  sysdate BETWEEN valid\_start\_date AND valid\_end\_date  ),  tt as (  SELECT  diabetic.person\_id,  count( distinct condition\_concept\_id ) AS comorbidities  FROM /\* people with diabetes/onset date \*/ (  SELECT  person\_id,  MIN( condition\_era\_start\_date ) AS onset\_date  FROM condition\_era  JOIN SNOMed\_diabetes ON snomed\_diabetes\_id = condition\_concept\_id  GROUP BY person\_id  ) diabetic  JOIN /\* condition after onset date, that are not diabetes \*/ (  SELECT  person\_id,  condition\_concept\_id,  condition\_era\_start\_date  FROM condition\_era  WHERE condition\_concept\_id NOT IN( SELECT snomed\_diabetes\_id FROM SNOMed\_diabetes )  ) comorb ON  comorb.person\_id = diabetic.person\_id AND  comorb.condition\_era\_start\_date > diabetic.onset\_date  JOIN concept ON concept\_id = comorb.condition\_concept\_id  GROUP BY diabetic.person\_id  )  SELECT  MIN( comorbidities ) AS min ,  max( comorbidities ) AS max,  avg( comorbidities ) AS average ,  (select distinct PERCENTILE\_DISC(0.25) WITHIN GROUP (ORDER BY comorbidities) over() from tt) AS percentile\_25 ,  (select distinct PERCENTILE\_DISC(0.5) WITHIN GROUP (ORDER BY comorbidities) over() from tt) AS median ,  (select distinct PERCENTILE\_DISC(0.75) WITHIN GROUP (ORDER BY comorbidities) over() from tt) AS percential\_75  FROM tt;  **Output:** Output field list:   |  |  | | --- | --- | | **Field** | **Description** | | min |  | | max |  | | average |  | | percentile\_25 |  | | median |  | | percential\_75 |  |   Sample output record:   |  |  | | --- | --- | | **Field** | **Description** | | min |  | | max |  | | average |  | | percentile\_25 |  | | median |  | | percential\_75 |  | |