CE07: Comorbidities of patient with condition

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| This query counts the top ten comorbidities for patients with diabetes  **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  )  SELECT  comorbidity,  frequency  FROM /\* top 10 \*/ (  SELECT  comorbidity,  count(\*) frequency  FROM /\* commorbidities for patients with diabetes \*/ (  SELECT DISTINCT  diabetic.person\_id,  concept\_name AS comorbidity  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 comorbidity  ORDER BY frequency DESC  )  limit 10;  **Output:** Output field list:   |  |  | | --- | --- | | **Field** | **Description** | | comorbidity |  | | frequency |  |   Sample output record:   |  |  | | --- | --- | | **Field** | **Description** | | comorbidity |  | | frequency |  | |