**G08:** Find ancestors for a given concept

For a concept identifier entered as the input parameter, this query lists all ancestors in the hierarchy of the domain. Ancestors are concepts that have a relationship to the given concept and is defined as hierarchical in the relationship table, and any secondary, tertiary etc. concepts going up in the hierarchy. The resulting output provides the ancestor concept details and the minimum and maximum level of separation.

**Sample query:**

SELECT C.concept\_id as ancestor\_concept\_id, C.concept\_name as ancestor\_concept\_name, C.concept\_code as ancestor\_concept\_code, C.concept\_class\_id as ancestor\_concept\_class\_id, C.vocabulary\_id, VA.vocabulary\_name, A.min\_levels\_of\_separation, A.max\_levels\_of\_separation

FROM concept\_ancestor A, concept C, vocabulary VA

WHERE A.ancestor\_concept\_id = C.concept\_id

AND C.vocabulary\_id = VA.vocabulary\_id

AND A.ancestor\_concept\_id<>A.descendant\_concept\_id

AND A.descendant\_concept\_id = 192671

AND sysdate BETWEEN valid\_start\_date

AND valid\_end\_date

ORDER BY 5,7;

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Example** | **Mandatory** | **Notes** |
| Concept ID | 192671 | Yes | GI - Gastrointestinal hemorrhage |
| As of date | Sysdate | No | Valid record as of specific date. Current date – sysdate is a default |

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| Ancestor\_Concept\_ID | Unique identifier of the concept related to the ancestor concept |
| Ancestor\_Concept\_Name | Name of the concept related to the ancestor concept |
| Ancestor\_Concept\_Code | Concept code of concept related to the ancestor concept |
| Ancestor\_Concept\_>Class | Concept Class of concept related to the ancestor concept |
| Vocabulary\_ID | ID of the vocabulary the ancestor concept is derived from |
| Vocabulary\_Name | Name of the vocabulary the ancestor concept is derived from |
| Min\_Levels\_of\_Separation | The length of the shortest path between the concept and the ancestor |
| Max\_Levels\_of\_Separation | The length of the longest path between the concept and the ancestor |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| Ancestor\_Concept\_ID | 4000610 |
| Ancestor\_Concept\_Name | Disease of gastrointestinal tract |
| Ancestor\_Concept\_Code | 119292006 |
| Ancestor\_Concept\_Class | Clinical finding |
| Vocabulary\_ID | 1 |
| Vocabulary\_Name | SNOMED-CT |
| Min\_Levels\_of\_Separation | 1 |
| Max\_Levels\_of\_Separation | 1 |