**D27:** Find drugs of a brand

This query is designed to extract all clinical and branded drugs associated with a branded ingredient (or simply a brand name). Since the brand names are not part of the standard drug hierarchy in the OMOP vocabulary, the association between brand name and generic/branded drugs is made using a set of relationships.  
The query requires a brand name concept ID as the input. Brand name concept IDs can be obtained by querying the Concept table for a concept class of ‘Brand Name’.

**Sample query:**

SELECT A.Concept\_Id drug\_concept\_id,

A.Concept\_Name drug\_name,

A.Concept\_Code drug\_concept\_code,

A.Concept\_Class\_id drug\_concept\_class,

D.Concept\_Id brand\_concept\_id,

D.Concept\_Name brand\_name,

D.Concept\_Code brand\_concept\_code,

D.Concept\_Class\_id brand\_concept\_class

FROM concept\_relationship CR003,

concept A,

concept\_relationship CR007,

concept\_relationship CR006,

concept D

WHERE CR003.relationship\_ID = 'Constitutes'

AND CR003.concept\_id\_1 = A.concept\_id

AND lower(A.concept\_class\_id) = 'clinical drug'

AND CR007.concept\_id\_2 = CR003.concept\_id\_2

AND CR007.relationship\_id = 'Has tradename'

AND CR007.concept\_id\_1 = CR006.concept\_id\_1

AND CR006.relationship\_id = 'RxNorm has ing'

AND CR006.concept\_id\_2 = D.concept\_id

AND lower(D.concept\_class\_id) = 'brand name'

AND D.concept\_id = 19011505

AND sysdate BETWEEN CR006.valid\_start\_date AND CR006.valid\_end\_date

AND sysdate BETWEEN CR007.valid\_start\_date AND CR007.valid\_end\_date

UNION ALL

SELECT A.Concept\_Id drug\_concept\_id,

A.Concept\_Name drug\_name,

A.Concept\_Code drug\_concept\_code,

A.Concept\_Class\_id drug\_concept\_class,

D.Concept\_Id brand\_concept\_id,

D.Concept\_Name brand\_name,

D.Concept\_Code brand\_concept\_code,

D.Concept\_Class\_id brand\_concept\_class

FROM concept A,

concept\_relationship CR007,

concept\_relationship CR006,

concept D

WHERE lower(A.concept\_class\_id) = 'branded drug'

AND CR007.concept\_id\_2 = A.concept\_id

AND CR007.relationship\_ID = 'Has tradename'

AND CR007.concept\_id\_1 = CR006.concept\_id\_1

AND CR006.relationship\_ID = 'RxNorm has ing'

AND CR006.concept\_id\_2 = D.concept\_id

AND lower(D.concept\_class\_id) = 'brand name'

AND D.concept\_id = 19011505

AND sysdate BETWEEN CR006.valid\_start\_date AND CR006.valid\_end\_date

AND sysdate BETWEEN CR007.valid\_start\_date AND CR007.valid\_end\_date;

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Example** | **Mandatory** | **Notes** |
| Brand name Concept ID | 19011505 | Yes | Concept ID for brand name ‘Fosamax’. Brand name concept IDs are listed in the CONCEPT table with a concept class of ‘Brand name’ |
| As of date | Sysdate | No | Valid record as of specific date. Current date – sysdate is a default |

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| Drug\_Concept\_ID | Concept ID of drug (clinical/generic or branded) |
| Drug\_Name | Name of drug |
| Drug\_Concept\_Code | Concept code of the drug |
| Drug\_Concept\_Class | Concept class of drug |
| Brand\_Concept\_ID | Concept ID of the brand name entered as ingredient |
| Brand\_name | Name of the brand |
| Brand\_Concept\_code | Concept code of the brand name |
| Brand\_Concept\_class | Concept Class of the brand name |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| Drug\_Concept\_ID | 40173591 |
| Drug\_Name | Alendronic acid 10 MG Oral Tablet [Fosamax] |
| Drug\_Concept\_Code | 904421 |
| Drug\_Concept\_Class | Branded Drug |
| Brand\_Concept\_ID | 19011505 |
| Brand\_name | Fosamax |
| Brand\_Concept\_code | 114265 |
| Brand\_Concept\_class | Brand Name |