**G14:** Statistics about relationships between concepts

This query produces list and frequency of all relationships between concepts (Standard and non-standard) and their class

**Sample query:**

SELECT

R.relationship\_id,

R.relationship\_name,

C1.vocabulary\_id from\_vocabulary\_id,

V1.vocabulary\_name from\_vocabulary\_name,

C1.concept\_class\_id from\_concept\_class,

C2.vocabulary\_id to\_vocabulary\_id,

V2.vocabulary\_name to\_vocabulary\_name,

C2.concept\_class\_id to\_concept\_class,

count(\*) num\_records

FROM

concept\_relationship CR,

concept C1,

concept C2,

relationship R,

vocabulary V1,

vocabulary V2

WHERE

CR.concept\_id\_1 = C1.concept\_id AND

CR.concept\_id\_2 = C2.concept\_id AND

R.relationship\_id = CR.relationship\_id AND

C1.vocabulary\_id = V1.vocabulary\_id AND

C2.vocabulary\_id = V2.vocabulary\_id

GROUP BY

R.relationship\_id,

relationship\_name,

C1.vocabulary\_id,

V1.vocabulary\_name,

C1.concept\_class\_id,

C2.vocabulary\_id,

V2.vocabulary\_name,

C2.concept\_class\_id

ORDER BY

R.relationship\_id,

C1.concept\_class\_id;

**Input:**

None

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| relationship\_id | Identifier for the type of relationship |
| relationship\_name | Name of the type of relationship |
| from\_vocabulary\_id | ID of the vocabulary of the input concepts |
| from\_vocabulary\_name | Name of the vocabulary of the input concepts |
| from\_concept\_class | Concept class of the input concepts |
| to\_vocabulary\_id | ID of the vocabulary the related concept is derived from |
| to\_vocabulary\_name | Name of the vocabulary the related concept is derived from |
| to\_concept\_class | Concept class the related concept is derived from |
| num\_records | Number of records |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| relationship\_id | 1 |
| relationship\_name | Concept replaced by (LOINC) |
| from\_vocabulary\_id | 6 |
| from\_vocabulary\_name | LOINC |
| from\_concept\_class | LOINC Code |
| to\_vocabulary\_id | 6 |
| to\_vocabulary\_name | LOINC |
| to\_concept\_class | LOINC Code |
| num\_records | 2022 |