

How to pass from SQL DB to Graph DB

It is convenient to pass from a SQL DB to a Graph DB if:

- There are many relationships between tables in SQL DB.
- There are only binary relationships between tables in SQL DB.
- There are not many nodes not involved in relationships in Graph DB.

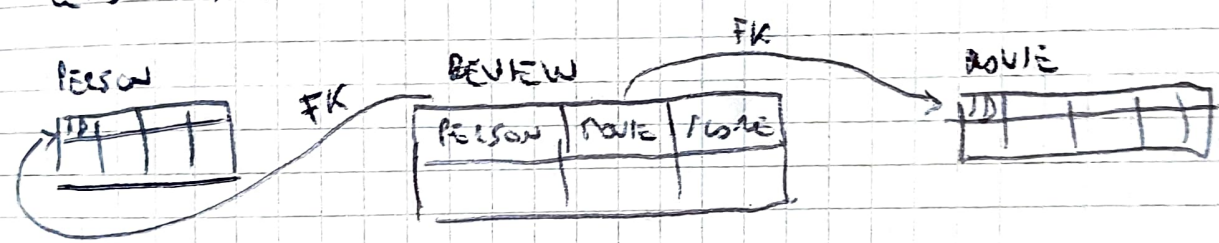
How to convert a SQL DB into a Graph DB:

- Identity, attributes are properties
- Identity, foreign keys are edges
- A table can be either a node or an edge (if possible, it is preferable to be an edge). In particular, it is:

- A node, if it represents an entity that can stand alone
- An edge, if it links two entities.

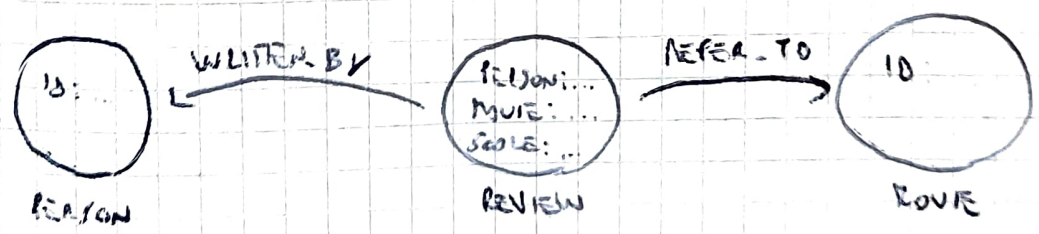
More in detail, we can have the following situations:

Let's suppose we have the following tables



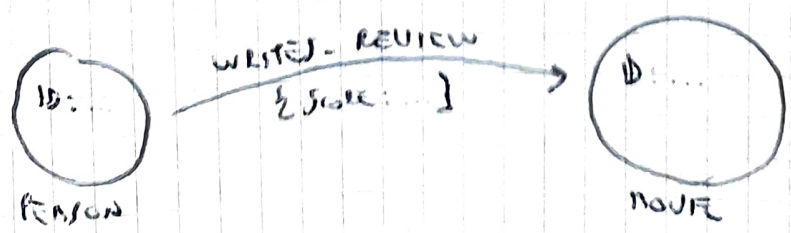
We can convert these tables in a Graph DB in the following two ways:

1) REVIEW TABLE AS A NODE



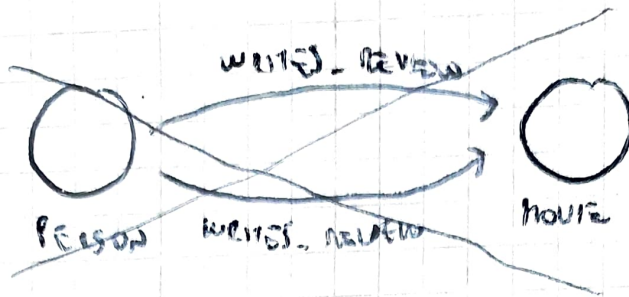
This allows to have a person that can write more than one review for the same movie.

2) REVIEW TABLE AS AN EDGE (PREFERABLE)



This allows to have a person that can write only one review for each movie. *

* THIS IS BECAUSE THERE CANNOT BE MULTIPLE EDGES BETWEEN TWO
NODES WITH THE SAME LABEL



VERY IMPORTANT

DO NOT USE PROPERTIES INSTEAD OF EDGES WHEN THERE ARE NONE
FOR THOSE "PROPERTIES".

