Vitality of graph databases in Master Data Management (MDM)

Graph databases focus on the relationship between two or more entities rather than the entities themselves. For data that is largely interconnected, graph DBs can build relationships between them and derive meaningful insights. Querying becomes easier when the complex relationships have already been built which speeds up the whole process. In today's scenario where the amount of data emerging is so immense, it is difficult for the Master Data Management (MDM) systems to ensure the quality of data and hence requires to be efficiently managed. Once the data is structured and relationships between entities have been found, the process of analysing becomes much easier. This is where graph databases play a crucial role. Also, for the questions that were not anticipated while building the database but has a requirement in the near future, graph DBs can cater to the need as refactoring new data into the database is easier.

The ideas that would be addressed:

- Key features of graph databases

- Advantages of graph databases over the relational databases

- Contribution of graph databases in overcoming the current challenges with MDM systems

- How do graph databases work

- Use cases

Sources:

1. https://tdwi.org/articles/2018/05/07/diq-all-three-practical-uses-for-graph-databases-in-mdm.aspx

2. https://blog.semarchy.com/does-mdm-need-graph

3. https://bitnine.net/blog-graph-database/master-data-management-using-graph-database/