Neo4J

Databases 2022

Exercise 1 (MMA Math)

- MMA Math.. If fighter A beat fighter C and C beat B that's mean A can beat B.
  - Using Neo4J-empty project, build a representation of the relationship between the following fighters (fighter is a Node{name,weight}, beat is a relationship).
    - Khabib Nurmagomedov(155) > Rafael Dos Anjos (155)
    - Rafael Dos Anjos > Neil Magny(170)
    - Jon Jones(205) > Daniel Cormier(205)
    - Michael Bisping (185)> Matt Hamill (185)
    - Jon Jones > Brandon Vera (205)
    - Brandon Vera > Frank Mir (230)
    - Frank Mir > Brock Lesnar(230)
    - Neil Magny > Kelvin Gastelum(185)
    - Kelvin Gastelum > Michael Bisping
    - Michael Bisping > Matt Hamill
    - Michael Bisping > Kelvin Gastelum
    - Matt Hamill > Jon Jones

- Hint: **Create(p:Fighter {name: 'DC',weight:'205'}),(pp:Fighter {name: 'Neil'}), (p)-[:beats]->(pp)**

Exercise 1(MMA Math) Part 2

- Write a cipher queries to :
  - Return all **middle/Walter/light** weight fighters (155,170,185) who at least have one win.
  - Return fighters who had **1-1 record** with each other. Use **Count** from the aggregation functions.
  - Return all fighter that can **“Khabib Nurmagomedov”** beat them and he didn’t have a fight with them yet.
  - Return **undefeated Fighters(0 loss), defeated fighter (0 wins)**.
  - Return all fighters MMA records and create query to enter the record as a property for a fighter {name, weight, record}.

- **Submit Queries and Screenshots for the graphs**.

Insert data

- NEO4J
- Tutorial - https://neo4j.com/developer/get-started/
- Why we should use the neo4j - https://www.youtube.com/watch?v=_D19h5s73Co
- NEO4J - https://neo4j.com/
- https://habr.com/ru/post/219441/

Good luck in the final exam ☺