

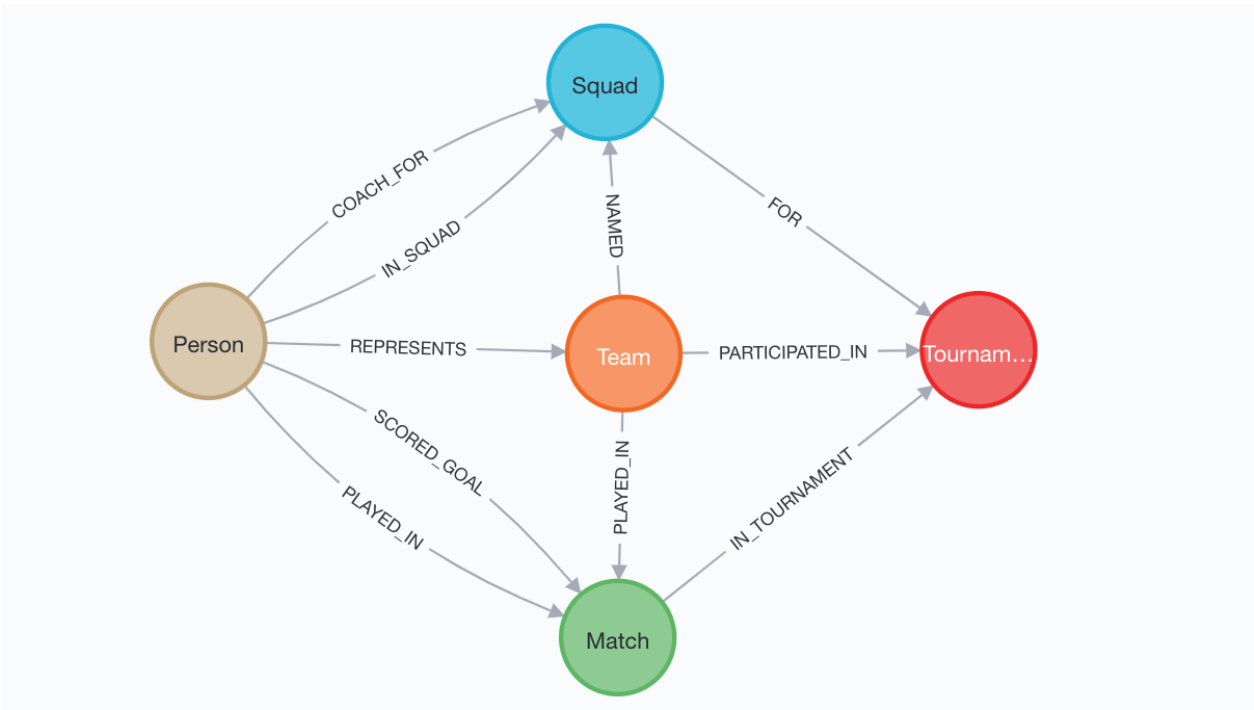


Course: MSc in Informatics/ MSc in Bioinformatics
U.C.: NoSQL Databases

Worksheet 05 - PLO6	
Teacher:	António Abelha / Cristiana Neto
Theme:	Introduction to Graph Databases
Class:	Laboratory Practice
Academic Year:	2023-2024 – 2nd Semester
Duration:	2 hours

WWC Database

This database contains all the matches, squads, lineups, and scorers from all the Women World Cups between 1991 and 2019.



- Open Neo4j Desktop;
- Create a new project named “NoSQL”;
- Upload the dump file provided to the project Files;
- Then choose the option to Create new DBMS from dump option from the file options.
- Start the database.

You have imported all the matches, squads, lineups, and scorers from all the World Cups between 1991 and 2019. Let’s take a look at the schema by running the following query: `call db.schema.visualization()`



Present cypher queries that:

1. Find the number of teams that have competed in each of the World Cups:
2. Find all players and coaches for the Brazil squad in the 2011 tournament, returning the persons names and their role (in squad or coach).
3. Retrieves all tournaments along with the teams that participated in each tournament, listing the tournament name and a collection of participating team names.
4. Find the player who has participated in the most tournaments.
5. Return the teams who played in the first day of the 2023 tournament.
6. Find the players who start the games most frequently for the USA team.
7. Return the top scorers by country and the respective number of goals.
8. Return goal scoring substitutes as well as their team and number of goals.
9. Return the number of finals played by team and the respective years, presenting the teams with most finals first.