Semantics, knowledge graphs and ontologies in practice

Jose Emilio Labra Gayo

WESO Research group University of Oviedo, Spain







Merge the different RDF representations in a single RDF graph

- 1.- Create SPARQL queries to solve the following:
- People whose temperature is above 36
- Average temperature of all people
- Standard deviation of temperature
- Temperature recordings made by each official





- 2.- Create SPARQL queries that detect errors in the data Example of possible errors:
- Players whose temperature is not a number
- Players with more than one team
- Players with more than one temperature recording for a session
- Players whose Wikidata item doesn't follow the pattern Qxxx where xxx is a list of digits
- Players whose temperature is above 45 or less than 30





3.- Create a federated SPARQL query that combines the information of the temperature of each player with their birth place and their country obtained from Wikidata





4.- Create a program that generates a JSON file from RDF data representing all the temperature recordings of each player combined with other information obtained from Wikidata like their birth place, country, etc.