

## Practice Number 2: Conceptual modelling and RDF- exercises

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1. Give a conceptual schema (using ER-design) about teams, players, and their fans, including
  - For each team, its name, its players, its team captain (one of its players), and the colors of its uniform.
  - For each player, his/her name.
  - For each fan, his/her name, favorite teams, favorite players, and favorite color.
2. Do exercise 1 using UML-design
3. Capture the knowledge, using the graph of N3 notation, of the following English statements:
  - Jack Smith studies at Helsinki University
  - Helsinki University has a web site at <http://www.helsinki.fi/university/>
  - Jack is a friend of Elisa Ford
  - Elisa Ford studies at Lappeenranta University of Technology
  - Lappeenranta University of Technology has a website at <http://www.lut.fi/en/>
  - Elisa Ford has a website at <http://www.lut.fi/elisa>
4. Using UML give a schema for the statements given in exercise 3.

5. (RDF-Exercise)

Give an RDF\_description that states the following:

Resource <http://www.hut.fi/~jack/homepage> is a homepage and it is owned by Jack Taylor.

6. RDF-Exercise ).

Give an RDF\_description that states the following:

Resource <http://www.innoui.fi/innoui-ns/#T-999> is a course named Java-programming and is lectured by Lisa Smith at room T2.

7. (RDF-Exercise)

By using container element `rdf:Bag`, give an RDF\_description that states the following: Mary and John owns the car ABC-99

8. (RDF-Exercise).

By using the "collection" value of the `rdf:parseType` attribute give an RDF\_description that states the following: Mary and John owns the car ABC-99