**EXORCISES**

1. **Exorcise paper 1**

Consider the following situation: "Monique has ownership rights to a plot".

* 1. Draw a UML instance diagram depicting this situation in the LADM model.
  2. Indicate for each object in your diagram, which UML class it belongs to.
  3. For each object, attribute data must be collected to comply with the LADM standard – please list the attribute names for each object.
  4. For each association, indicate the association's name if it is explicitly given in the LADM standard.

**Answer:**

**Diagram

Description automatically generated**

*This exercise assesses how the student has assimilated the core LADM classes and the idea that a class represents a group of objects of the same kind such as a party. It also shows that the student can use the core LADM classes to describe a specific scenario. The solution to problem 1.a. would look exactly like the bottom row of boxes in Figure 2 (a) or (b), except the class of each object would be included in the diagram or as a separate descriptive text. It should be noted that from this initial problem, questions related with other knowledge areas such as model representation in relational database tables, basic SQL query syntax or and spatial representations may be derived.*

**Comments**

* The plot does not belong to Monique but Carlos

Diagram

Description automatically generated

**Graphical user interface, application

Description automatically generated**

**Table

Description automatically generated**

* WR01 in the dataset is land use agricultural but should be residential?
* There are three different rights, it should be only one right for Monique (table1).
* The exorcise text specifies to follow what is explicit in the LADM standard, but the exorcise needs to provide the LADM classes

1. **Exorcise paper 2**

Given the initial scenario shown in Figure 1, where Monique owns an apartment, laundry room, and parking space in an apartment complex (as depicted in **Error! Reference source not found.**),

* 1. redraw the instance diagram where a single entity, Galaxy Properties, buys out the entire property. In the new scenario Galaxy Properties now owns both the land and all the structures on the residential complex.
  2. Write the SQL queries required to update the data to reflect the new scenario.

Timeline

Description automatically generated

Figure 1. Scenario presented for exercise question 2

**Answer:**

**Diagram

Description automatically generated**

Diagram

Description automatically generated

Figure 2. Possible answers for exercise 2. (a) transfer of ownership rights by shifting only the reference to the right and therefore anything that follows-on, (b) the ownership rights are transferred by moving each spatial under a Basic Administrative Unit over

*Figure 2 shows the two possible solutions for problem 2.a. Both answers are admissible within LADM but either might or might not conform to a particular country profile. Problem 2.b. assumes that the student has already developed or has been provided with the corresponding database schema.*

**Comments:**

* WR18-04,WR18-05,WR18-06 belong to the association, not Monique

**Table

Description automatically generated**

* P13 is the association code, Galaxy Properties does not exist in the dataset…. Update next number for P#
* Create a party called Galaxy Properties and write down the answer.

1. **Exorcise course**

BAU-12

Right057

Diagram, schematic

Description automatically generated

land

P01 Carlos

land

parking

apartment

laundry

BAU-1

Right001

Right063

P13

P13

Right061

Right062

P13

**Answers:**

* Other option is editing in rrr table (r.party\_id, r.id,r.type,) and in spatial\_unit table (baunit\_id)

Right094>>new r.id Right105

P14>> new r.party\_id P01

* WR18-37

**Comments:**

* In the table rrr needs to be filled the baunit also, then the ownership can be changed by changing BAU?
* When updating the selling from Monique to Carlos, it appears double
* When editing the spatial unit the modification is just in the view but not in the database
* After the change, there is no modification…. Right094 does not appear in the table but appears in the database
* Check that each baunit has the same right not different rights