Exercise 1

(2.5 Points)

		RULES															
CONDITIONS	Good health	T	T	T	T	T	T	T	T	F	F	F	F	F	F	F	F
	Dangerous disease	T	T	T	T	F	F	F	F	T	T	T	T	F	F	F	F
	Vaccination before 3 months	T	T	F	F	T	T	F	F	T	T	F	F	T	T	F	F
	Mature	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F
ACTIONS	Slaughter is authorized					X											
	slaughter is authorized only for sanitary burial	X	X	X	X					X	X	X	X				
	slaughter is prohibited						X	X	X					X	X	X	X

(2.5 Points)

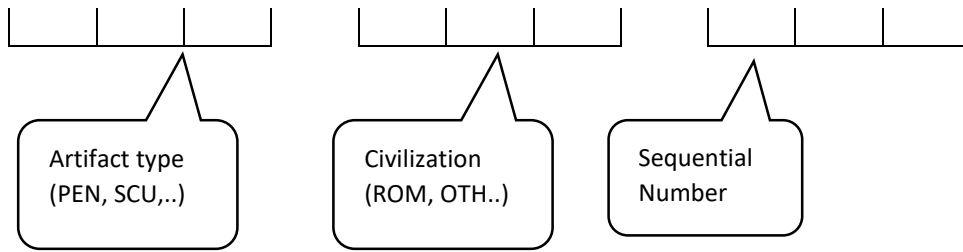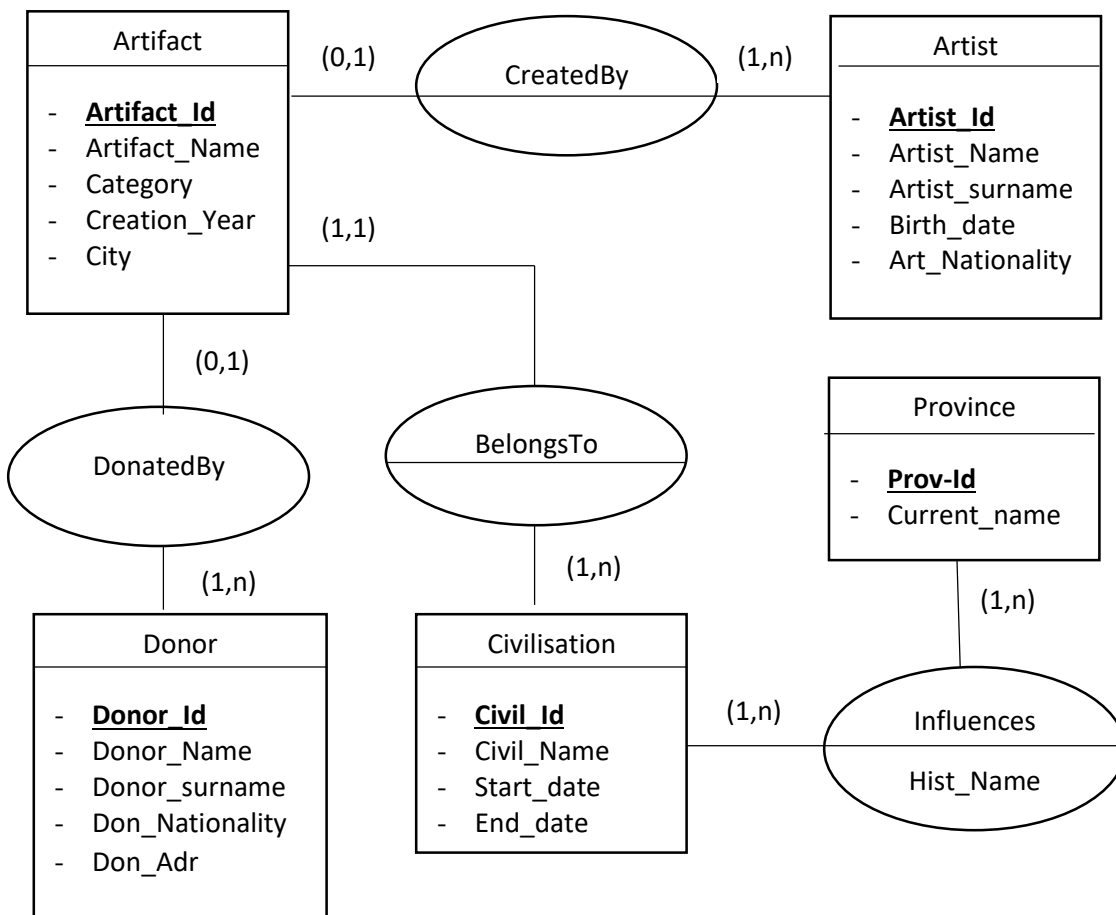|		RULES			
CONDITIONS	Good health	=	F	T	T
	Dangerous disease	T	F	F	F
	Vaccination before 3 months	=	=	F	=
	Mature	=	=	=	F
ACTIONS	Slaughter is authorized				
	slaughter is authorized only for sanitary burial	X			X
	slaughter is prohibited		X	X	

(2 Points)
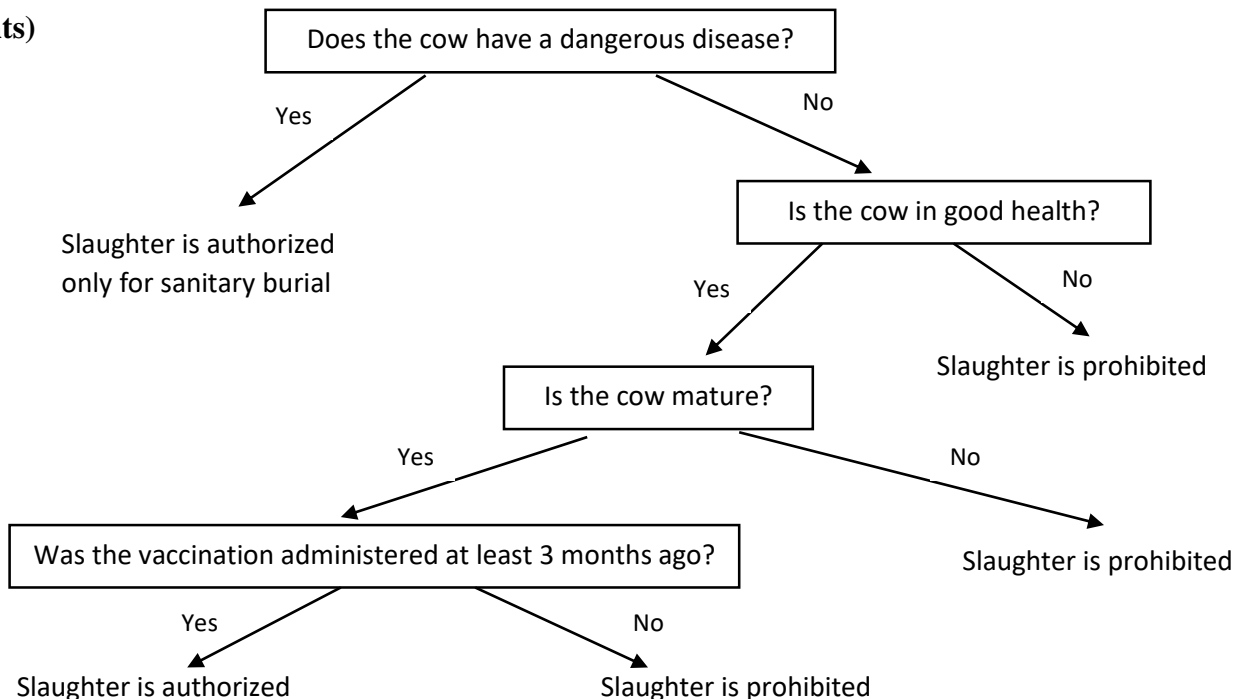
Exercise 2

1. **The proposed codification (1 Pt.)**

This codification is **Articulated (0.5 P)**

2. **Conceptual Data Model (5 Pts.)**

Each entity: **0.5 points**
Each association with its cardinalities: **0.5 points**, except for the "Influence" association, which is **1 point**.

3. Logical Data Model (3.5 Pts.)

Artifact (**Artifact_Id,** Artifact_Name, Category, Creation_Year, City, **Artist_Id*, Civil_Id*, Donor_Id *) (0.75 Pt.)**

Artist (**Artist_Id,** Artist_Name, Artist_surname, Birth_date, Art_Nationality) **(0.5 Pt.)**

Civilisation (**Civil_Id,** Civil_Name, Start_date, End_date) **(0.5 Pt.)**

Donor (**Donor_Id ,** Donor_Name, Donor_surname, Don_Nationality, Don_Adr) **(0.5 Pt.)**

Province (**Prov-Id,** Current_name) **(0.5 Pt.)**

Influences (**Civil_Id, Prov-Id,** Hist_Name) **(0.75 Pt.)**

4. Conceptual Process Model (3 Points)

```
                    ┌─────────────┐
                    │  Identity   │
                    │  document   │
                    └──────┬──────┘
                           ▼
        ┌──────────────────────────────────────┐
        │  Donor identity and artifact registration │
        ├──────────────────────────────────────┤
        │   - Donor identity registration       │
        │   - Artifact registration             │
        ├──────────────────────────────────────┤
        │              Always                   │
        └──────────────────┬───────────────────┘
                           ▼
                    ┌─────────────┐
                    │  Donation   │
                    │  document   │
                    └──────┬──────┘
                           ▼
        ┌──────────────────────────────────────┐
        │           Artifact preview            │
        ├──────────────────────────────────────┤
        │   - artifact's identification         │
        │   -  historical period determination  │
        ├──────────────────────────────────────┤
        │              Always                   │
        └──────────────────┬───────────────────┘
                           ▼
                    ┌─────────────┐
                    │  Detailed   │
                    │   report    │
                    └──────┬──────┘
                           ▼
        ┌──────────────────────────────────────┐
        │           Artifact preview            │
        ├──────────────────────────────────────┤
        │   - artifact's final identification   │
        │   -  Recognition certificate establishment │
        ├──────────────────────────────────────┤
        │              Always                   │
        └───────┬──────────────────────┬───────┘
                ▼                      ▼
         ┌─────────────┐       ┌─────────────┐
         │  Artifact   │       │ Recognition │
         │identification│      │ certificate │
         └─────────────┘       └─────────────┘
```