Briefly (in at most 300 words) discuss your design choices for M5: why did you pick the data model/data structure formalism that you have picked? How did you design your format? Why did you pick the schema language that you have picked? In particular, make sure you distinguish different properties of your options: some may be more familiar to you, some may be more expressive, some may be more suited to the kind of data for this exercise. In other words, please do not simply say "I picked X because X is *best*."

According to the requirement, only three entities are in this scenario. The relationship between entities is not complicate. I therefore narrow down choices to two structures, which are tree and table. Taking into consideration of high flexibility and extensibility, tree is better than table. In this case, XML is good choice for tree structure. However, JSON is know as tree structure as well. But there is no schema for JSON and it does not have a certain schema or standard either. Although JSON is easy to use in real world application, XML is more rigorous for design format. In order to avoid redundant query in XML, some constraints are necessary. Most constraints can be set by XML schema. However, schematron is used in content level. The combination uses of schema and schematron can not only valid the XML file but also set some rules on content of XML.