*Assignment #2*

1. **[XML] (45)**
   1. (15) Consider the attached data for a simple Construction Project Management company. Create XML documents (.xml files) to store the data. Provide the XML documents as separate files.
   2. (15) Consider the XML documents defined in (a) above for the Construction Project Management dataset. Give a Document Type Definition (DTD) representation for each of the XML documents. Provide the DTD representations as .dtd files.
   3. (15) Consider the XML documents defined in (a) above for the Construction Project Management dataset. Give an XML schema representation for each of the XML documents. Provide the XML schema representation as .xsd files.
2. **[JSON] (30)**
3. (15) Consider again the Construction Project Management company dataset attached with this assignment. Assuming you don’t have any relational schema. How would you model the data to store it as JSON documents. Use the provided data to create the JSON documents. Provide the JSON documents as .json files.
4. (15) Consider the JSON data model and JSON documents defined in (a) for the Construction Project Management dataset. Give a JSON Schema that can be used to validate the JSON documents with sample data. Provide the JSON Schema as .json files.
5. **[Property Graph] (25)**

Create a Labeled Property Graph, using a Graph database management system, to describe the attached project management data. Describe the vertices and the edges along with their labels and properties. Provide the database file as an attachment.

Note: A recommended Graph database management system is Neo4j.