**Title Of Your Project – Data entities, attributes and Files**

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**Your Github URL - https://github.com/Shiv-Lewis/Project\_2**

**Current Date – 11/09/2022**

1. **Entities lists**

Entity name à Suppliers

This supplier entity stores the information about the suppliers who supplies the materials. A supplier may supply lot of materials and provide services to the other entities. By using this entity, the supplier ID, name, contact number and address can be obtained for communication. The supplier ID and contact number are provided with the integer. On the other hand, supplier\_name and address attributes require a varchar datatype.

Entity name à Raw\_Material

This entity is for tracking the details of the material used for the toys. The details of the raw materials like wood, clay, paper, and plastic are stored in this table. This entity consists of the supplier id, raw material id, material type and unit cost. Here, supplier and raw material id require integer datatype and material\_type is varchar because the type of material may consist of an alphanumeric value. The unit cost is assigned to the decimal type.

Entity name à Lot

This Lot entity is for storing the information about the martial cost and the created date. Lot ID is provided with integer datatype and cost is assigned to decimal. Then the date datatype is required for a created date in this lot entity.

Entity name à Toys\_Production

This entity is the main of our business and this for storing the basic toy information like weight of the toy that is manufactured and is it done the quality test or not and so on. This Toy\_production entity helps to identify the toy in the store and also, it helps to achieve the quality of the toy based on the quality test attribute. In this entity, ID and weight are expressed in integer and other attributes are assigned to varchar datatype.

Entity name à Raw\_Material\_Lot

This for storing the raw material lot. A lot can have more than one raw material and same as a raw material may be stored in more than one lot. It can able to obtain total unit of the material by using raw material ID and Lot ID. Here, all the attributes have the same data type such as integers as they are related to the numeric value.

1. **Tables**

|  |  |  |
| --- | --- | --- |
| **Table name** | **Attributes** | **Data type** |
| Supplier | Supplier\_ID | Integer |
|  | Supplier\_Name | Varchar (20) |
|  | Contact\_Number | Integer |
|  | Address | Varchar (30) |

|  |  |  |
| --- | --- | --- |
| **Table name** | **Attributes** | **Data type** |
| Raw\_Material | Raw\_Material\_ID | Integer |
|  | Supplier\_ID | Integer |
|  | Material\_Type | Varchar (20) |
|  | Unit\_Cost | Decimal (5,2) |

|  |  |  |
| --- | --- | --- |
| **Table name** | **Attributes** | **Data type** |
| Lot | Lot\_ID | Integer |
|  | Cost | Decimal (5,2) |
|  | Created\_Date | Date |

|  |  |  |
| --- | --- | --- |
| **Table name** | **Attributes** | **Data type** |
| Raw\_Material\_Lot | Raw\_Material\_ID | Integer |
|  | Lot\_ID | Integer |
|  | Total\_Unit | Integer |

|  |  |  |
| --- | --- | --- |
| **Table name** | **Attributes** | **Data type** |
| Toys\_Production | Toy\_Production\_ID | Integer |
|  | Lot\_ID | Integer |
|  | Toy\_Name | Varchar (20) |
|  | Toy\_Description | Varchar (40) |
|  | Toy\_Weight | Integer |
|  | IsQualityTested | Varchar (10) |