**Relational Databases: Exercise 6(2)**

**Task 1**

A hardware store uses a relational database called HardwareStore to store details of the products for sale and the manufacturer of each product.

A sample record from the Product table of the HardwareStore database is shown below.

|  |  |
| --- | --- |
|  | Product Name – Medium Paint Brush (Size 2)  Product Code – MPB2  Number in Stock – 24  On Order – No  Cost Price – £5.65  Manufacturer ID – 531 |

The store applies a business rule to ensure that the Number in Stock is always between 0 and 50. All costs in the database must be over £1.

Copy and complete the following data dictionary for the Product table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Key** | **Type** | **Field Length** | **Reqd** | **Validation** |
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**Task 2**

The Manufacturer table of the HardwareStore database is used to store details of manufacturers. Sample details stored in this table are shown below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Manufacturer ID** | **Name** | **Address** | **Telephone Number** |
| 531 | Metal and Wood | Tyne Way Newcastle | 01542123485 |

Copy and complete the following data dictionary for the Manufacturer table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Key** | **Type** | **Field Length** | **Reqd** | **Validation** |
|  |  |  |  |  |  |
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**Task 3**

Draw an entity relationship diagram to represent the relationship between the Product and Manufacturer tables of the HardwareStore database.

**Task 4**

Create a new database called HardwareStore.

Use the graphical tools provided in MS Access to create the structure for the Product and Manfacturer tables of the HardwareStore database.

Make sure that the properties of both tables match all of the settings indicated in your data dictionary.

Remember to enforce referential integrity between the two tables.