Project Title: "Eco-Friendly Modular Furniture Solutions"

Name: Siva Rama Krishna Reddy Bhumireddy

GitHub URL: <https://github.com/bhumireddysivaramakrishnareddy/Database-Week-02.git>

SQL Environment: Windows

**Entities and Description:**

For the business model "Eco-Friendly Modular Furniture Solutions," we can identify five key entities relevant to the business process. Here are the entities along with a short description and their respective attributes:

1. **Furniture Products**:

* **Description**: These are the core items sold by the business, consisting of various modular furniture pieces such as sofas, tables, chairs, and shelves.
* **Attributes**: Product ID, Supplier ID, Name, Type (e.g., chair, table), Material Composition (e.g., bamboo, recycled plastics), Price.

1. **Customers**:

* **Description**: Individuals or entities purchasing furniture items. This entity is crucial for managing customer relationships and personalizing the shopping experience.
* **Attributes**: Customer ID, Name, Contact Information (Phone, Email), Shipping Address, Billing Address, Purchase History.

1. **Suppliers**:

* **Description**: Entities providing raw materials such as bamboo, recycled plastics, and organic cotton. Effective management of suppliers is essential for maintaining the sustainability of the supply chain.
* **Attributes**: Supplier ID, Name, Contact Information, Material Provided, Location, Sustainability Rating, Delivery Lead Times, Contract Terms.

1. **Orders**:

* **Description**: Records of purchases made by customers. Each order encapsulates the details of the products purchased, prices, and delivery information.
* **Attributes**: Order ID, Customer ID, Product ID, Employee ID, Quantity of Each Product, Total Price, Order Date, Estimated Delivery Date, Delivery Status, Payment Status.

1. **Employees**:

* **Description**: Individuals working in various capacities within the company, such as design, manufacturing, sales, and administration.
* **Attributes**: Employee ID, Name, Role/Position, Contact Information, Department, Hire Date, Salary.

**Tables and Data Types:**

Below are five simple tables describing the entities, their attributes, and the data types for each attribute for the "Eco-Friendly Modular Furniture Solutions" business:

1. **Furniture Products Table**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| Product ID | Integer |
| Supplier ID | Integer |
| Name | VarChar(100) |
| Type | VarChar(50) |
| Material Composition | VarChar(100) |
| Price | Float |

1. **Customers Table**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| Customer ID | Integer |
| Name | VarChar(100) |
| Phone | VarChar(15) |
| Email | VarChar(100) |
| Shipping Address | VarChar(200) |
| Billing Address | VarChar(200) |
| Purchase History | Text |

1. **Suppliers Table**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| Supplier ID | Integer |
| Name | VarChar(100) |
| Contact Information | VarChar(100) |
| Material Provided | VarChar(100) |
| Location | VarChar(100) |
| Sustainability Rating | Float |
| Delivery Lead Times | VarChar(50) |
| Contract Terms | Text |

1. **Orders Table**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| Order ID | Integer |
| Customer ID | Integer |
| Employee ID | Integer |
| Product IDs | Text |
| Quantity | Integer |
| Total Price | Float |
| Order Date | Date |
| Estimated Delivery Date | Date |
| Delivery Status | VarChar(50) |
| Payment Status | VarChar(50) |

1. **Employees Table**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| Employee ID | Integer |
| Name | VarChar(100) |
| Role/Position | VarChar(100) |
| Contact Information | VarChar(100) |
| Department | VarChar(100) |
| Hire Date | Date |
| Salary | Float |