Title of Project:  
Underground Eco-Homes for Digital Nomads

Name:  
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GitHub URL:  
https://github.com/jethin26/Database2.git

SQL environment:

Windows

**Entities and their Descriptions:**

1. **Home Designs**

**Description:** Architectural templates for the underground homes we offer.

**Attributes:**

* DesignID (Integer): A unique identifier for each design.
* TemplateName (Varchar): The name of the design template.
* Blueprint (Blob): The digital blueprint file of the design.

1. **Orders**

**Description:** Records of customer purchases of underground homes.

**Attributes:**

* OrderID (Integer): A unique identifier for each order.
* CustomerID (Integer): The identifier for the customer who made the order.
* DesignID (Integer): The chosen home design for the order.

1. **Customers**

**Description:** Individuals who register on our platform to purchase or explore home options.

**Attributes:**

* CustomerID (Integer): A unique identifier for each customer.
* Name (Varchar): Full name of the customer.
* Email (Varchar): Email address for communication and login.

1. **Suppliers**

**Description:** Companies or entities that provide the raw materials for home construction.

**Attributes:**

* SupplierID (Integer): A unique identifier for each supplier.
* MaterialID (Integer): Identifier for the type of material they supply.
* Location (Varchar): The geographical location of the supplier.

1. **Materials**

**Description:** The raw and auxiliary materials used for the construction of the homes.

**Attributes:**

* MaterialID (Integer): A unique identifier for each material type.
* MaterialName (Varchar): The name of the material (e.g., Rammed Earth).
* InStock (Boolean): Indicates if the material is currently in stock.

**Entities Tables and Data Types:**

1. **Home Designs**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| DesignID | Integer |
| TemplateName | Varchar(100) |
| Blueprint | Blob |

1. **Orders**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| OrderID | Integer |
| CustomerID | Integer |
| DesignID | Integer |
| OrderDate | Date |
| Status | Varchar(50) |

1. **Customers**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| CustomerID | Integer |
| Name | Varchar(100) |
| Email | Varchar(100) |
| RegisteredOn | Date |
| IsActive | Boolean |

1. **Suppliers**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| SupplierID | Integer |
| MaterialID | Integer |
| Location | Varchar(255) |
| ContactName | Varchar(100) |
| PhoneNumber | Varchar(20) |

1. **Materials**

|  |  |
| --- | --- |
| **Attribute** | **Data Type** |
| MaterialID | Integer |
| MaterialName | Varchar(100) |
| InStock | Boolean |
| UnitCost | Decimal(10,2) |
| StockLevel | Integer |