**Table Design**

**User Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| UserID | int | Unique, notnull |
| Username | Varchar (50) | Unique ,notnull |
| Password | Varchar (50) | notnull |
| Email | Varchar (50) | Unique |

**Role Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| RoleID | int | Primary Key, Auto Increment |
| RoleName | varchar(50) | Unique, notnull |

**Permission Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Permissionid | int | Primary Key, Auto Increment |
| Permissionname | Varchar(20) | Unique,notnull |

**Aquarium and Pet Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| aqpetid | int | Unique,notnull |
| categoryid | varchar(50) | Unique,notnull |
| description | varchar(50) | notnull |
| price | Decimal(10,2) | Unique |

**Categories Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| categoryid | int | Primary Key, Auto Increment |
| categoryname | varchar(50) | notnull |

**Supplier Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| SupplierID | int | Primary Key, Auto Increment |
| SupplierName | varchar(100) | Not null |
| Phno | text | Not null |

**Inventory Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Inventoryid | int | Primary Key, Auto Increment |
| aqpetid | int | Foreign key(aqpetid from aquarium and pet table) |
| SupplierID | int | Foreign key(supplierid from supplier table) |
| quantity | int | Not null |
| purchasedate | date | Not null |

**Customer Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| customerid | int | Primary Key, Auto Increment |
| customername | varchar(50) | notnull |

**Order Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| orderid | int | Primary Key, Auto Increment |
| customerid | int | Foreignkey, Unique, notnull |
| orderdate | Not null | notnull |
| amount | Decimal(10,2) | notnull |

**Payment Method**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| methodid | int | Primary Key, Auto Increment |
| orderid | int | Foreignkey, (ordered in ordertable)Not null |
| methodname | varchar(100) | Not null |

**Payment Table**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| methodid | int | Primary Key, Auto Increment |
| orderid | int | Foreignkey, (ordered in ordertable)Not null |
| methodid | int | Foreignkey, (methodid in payment id)Not null |