**FirstChoice Application**

**Database Design**

Table 01 : **Company**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| CompanyName | nvarchar(100) | No |  |  |  |
| OwnerName | nvarchar(50) | No |  |  |  |
| ContactNo | nvarchar(15) | No |  |  |  |
| Email | nvarchar(50) | No |  |  |  |
| Address | nvarchar(300) | No |  |  |  |
| CompanyLogo | varbinary(MAX) | Yes |  |  |  |

Table 02 : **Supplier**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| SupplierName | nvarchar(100) | No |  |  |  |
| ContactNo | nvarchar(15) | No |  |  |  |
| Email | nvarchar(50) | No |  |  |  |
| Address | nvarchar(300) | No |  |  |  |

Table 03 : **Customer**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| SupplierName | nvarchar(100) | No |  |  |  |
| ContactNo | nvarchar(15) | No |  |  |  |
| Email | nvarchar(50) | No |  |  |  |
| Address | nvarchar(300) | No |  |  |  |

Table 04 : **Brand**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| Name | nvarchar(100) | No |  |  |  |

Table 05 : **Category**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| CategoryName | nvarchar(100) | No |  |  |  |

Table 06 : **Item**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| ItemName | nvarchar(100) | No |  |  |  |
| CategoryId | int | No |  | Category(id) |  |

Table 07 : **Size**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| ProductSize | nvarchar(30) | No |  |  |  |
| ItemId | Int | No | ForeignKey | Item(id) |  |

Table 08 : **ProductType**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| ProductType | nvarchar(100) | No |  |  |  |
| ItemId | Int | No | ForeignKey | Item(id) |  |

Table 09 : **Product**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| BrandId | Int | No | ForeignKey | Brand(id) |  |
| ItemId | Int | No | ForeignKey | Item(id) |  |
| MeasurementId | Int | No | ForeignKey | Measurement(id) |  |
| SizeId | Int | No | ForeignKey | Size(id) |  |
| TypeId | Int | No | ForeignKey | Type(id) |  |
| Stock | Decimal(10,2) | No |  |  |  |
| Price | Decimal(10,2) | No |  |  |  |
| ProductCode | nvarchar(50) | No |  |  |  |
| ProductName | nvarchar(200) | No |  |  |  |

Table 10 : **Purchase**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| SupplierId | Int | No | ForeignKey | Supplier(id) |  |
| InvoiceNo | nvarchar(50) | No |  |  |  |
| PurchaseDate | DateTime | No |  |  |  |
| TotalAmount | Decimal(10,2) | No |  |  |  |
| DiscountAmount | Decimal(10,2) | Null |  |  |  |
| PaidAmount | Decimal(10,2) | Null |  |  |  |
| PurchaseType | Int | No |  |  |  |
| CreatedDate | DateTime | No |  |  |  |

Table 11 : **PurchaseDetail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| PurchaseId | Int | No | ForeignKey | Purchase(id) |  |
| ProductId | Int | No | ForeignKey | Product(id) |  |
| Quantity | Decimal(10,2) | No |  |  |  |
| Price | Decimal(10,2) | No |  |  |  |

Table 12 : **PurchaseLedger**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| PurchaseId | Int | Yes | ForeignKey | Purchase(id) |  |
| PurchaseAmount | Decimal(10,2) | Yes |  |  |  |
| PaidAmount | Decimal(10,2) | No |  |  |  |
| Balance | Decimal(10,2) | No |  |  |  |
| TransactionType | Int | No |  |  |  |
| Remarks | Nvarchar(300) | Yes |  |  |  |

Table 13 : **Sale**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| InvoiceNo | nvarchar(50) | No |  |  |  |
| CustomerId | Int | No | ForeignKey | Customer(id) |  |
| SaleDate | DateTime | No |  |  |  |
| TotalAmount | Decimal(10,2) | No |  |  |  |
| DiscountAmount | Decimal(10,2) | Null |  |  |  |
| PaidAmount | Decimal(10,2) | Null |  |  |  |
| SaleType | Int | No |  |  |  |
| CreatedDate | DateTime | No |  |  |  |

Table 14 : **SaleDetail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| SaleId | Int | No | ForeignKey | Sale(id) |  |
| ProductId | Int | No | ForeignKey | Product(id) |  |
| Quantity | Decimal(10,2) | No |  |  |  |
| Price | Decimal(10,2) | No |  |  |  |

Table 15 : **SaleLedger**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | int | No | PrimaryKey |  |  |
| SaleId | Int | null | ForeignKey | Purchase(id) |  |
| SaleAmount | Decimal(10,2) | null |  |  |  |
| PaidAmount | Decimal(10,2) | No |  |  |  |
| Balance | Decimal(10,2) | No |  |  |  |
| TransactionType | Int | No |  |  |  |
| Remarks | Nvarchar(300) | null |  |  |  |

Table 16 : **ExpenseType**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | Int | No | PrimaryKey |  |  |
| ExpenseTitle | Nvarchar(200) | No |  |  |  |
| Remarks | Nvarchar(300) | null |  |  |  |

Table 17 : **ExpenseDetail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Allow Nulls | Primary / Foreign Key | Foreign Key Details | Remarks |
| Id | Int | No | PrimaryKey |  |  |
| ExpenseTypeId | Int | No | ForeignKey | ExpenseType(id) |  |
| ExpenseAmount | Decimal(10,2) | No |  |  |  |
| ExpenseDate | Datetime | No |  |  |  |
| Remarks | Nvarchar(300) | Null |  |  |  |