**Table name = Store**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Store\_Id | Number | PK, Surrogate |
| StoreName | String | NOT NULL |
| Address | Number | NOT NULL |

**Table name = ShelfLocation**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| ShelfLocation\_Id | Number | PK, Surrogate |
| Store\_Id | Number | FK references Store(Store\_Id) |
| Product\_Id | Number | FK references Product(Product\_Id), NOT\_NULL |
| FloorNumber | Number | NOT NULL |
| AisleName | String | NOT NULL |
| ShelfNumber | Number | NOT NULL |

**Table name = Product**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Product\_Id | Number | PK, Surrogate |
| SKU | Number | UNIQUE, NOT NULL |
| ProdName | String | NOT NULL |
| Price | Number | NOT NULL |

**Table name = Category**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Category\_Id | Number | PK, Surrogate |
| CategoryName | String | NOT NULL |
| CategoryDesc | String | NOT NULL |

**Table name = Prod\_Cat**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Prod\_Cat\_Id | Number | PK, Surrogate |
| Category\_Id | Number | FK references Category, NOT NULL |
| Product\_Id | Number | FK references Product, NOT NULL |
| Pro-Cat | Number | Composite Key(Product\_Id, Category\_Id) |

**Table name = Stock**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Stock\_Id, | Number | PK, Surrogate |
| Store-Prod | (Number,Number) | Composite Key(Store\_Id, Product\_Id) |
| Store\_Id | Number | FK references Store(Store\_Id) , NOT NULL |
| Product\_Id | Number | FK refrences Product(Product\_Id), NOT NULL |
| ShelfQty | Number | NOT NULL |
| RecordThreshold | Number | NOT NULL |
| StorageQty | Number | NOT NULL |
| StockDate | Number | NOT NULL |

**Table name = Bill**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Bill\_Id | Number | PK, Surrogate |
| Payment\_Id | Number | FK references Payment, NULLABLE |
| BillDate | Number | NOT NULL |
| TotalBill | Number | NOT NULL |

**Table name = BillItem**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| BillItem\_Id | Number | PK, Surrogate |
| Bill\_Id | Number | FK references Bill, (ON DELETE CASCADE) |
| Product\_Id | Number | FK references Product |
| Quantity | Number | NOT NULL |
| TotalPrice | Number | NOT NULL |

**Table name = Payment**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| Payment\_Id | Number | PK, Surrogate |
| Bill\_Id | Number | Fk references Bill, NOT NULL |
| PaymentType | String | NOT NULL |
| PaymentDate | Number | NOT NULL |
| PaymentAmount | Number | NOT NULL |

**Table name = CardPayment**

|  |  |  |
| --- | --- | --- |
| Name of column | Data type | Constraints  (e.g., PK, FK, Surrogate, UNIQUE, NOT NULL, etc.) |
| CardPayment\_Id | Number | PK, surrogate, FK references Payment (CASCADE ON DELETE) |
| CardNumber | Number | NOT NULL |
| ExpiryDate | Number | NOT NULL |
| AuthReferenceNumber | Number | NOT NULL |