1. name: adding a new product into the system

Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1.choose command “Add Product”  Main screen:  Add Product  Add Purchase  Add Customer  Store Management System | 2. Display “Add Product”  “Add Product Screen”  Product ID  Name  .  Price  Quantity  Description  Cancel  Add |
| 3. Input data then click “Add” button  “Add product” screen with data  Add Product  1  Product ID  apple  Name  2.0  Price  Quantity  1  Description  Remain : 9 | 4. Hide “Add Product” screen and display “Add Product Successfully  ok  Product Added apple successfully |
| 5. Click “OK” button | 6.Display “Main” screen |

1. name: adding a new customer into the system

Steps:

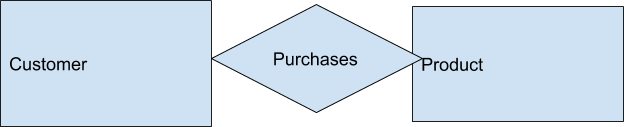
|  |  |
| --- | --- |
| Actor | System |
| 1.choose command “Add Customer”  Main screen:  Add Product  Add Purchase  Add Customer  Store Management System | 2. Display “Add Customer”  “Add Customer Screen”  Customer ID  Address  .  Name  phone  Cancel  Add |
| 3. Input data then click “Add” button  “Add product” screen with data  Add customer  1  CustomerId  Quan  Name  auburn  Address  phone  13347285696 | 4. Hide “Add Customer” screen and display “Add Customer Successfully  ok  Product Added customer successfully |
| 5. Click “OK” button | 6.Display “Main” screen |

1. name: adding a new purchase into the system

Steps:

|  |  |
| --- | --- |
| Actor | System |
| 1.choose command “Add Product”  Main screen:  Add Product  Add Purchase  Add Customer  Store Management System | 2. Display “Add Purchase”  “Add Product Screen”  Purchase ID  Product ID  .  Customer ID  Quantity  Description  Cancel  Add |
| 3. Input data then click “Add” button  “Add product” screen with data  Add Product  1  Purchase ID  2  ProductID  1  customerID  amount  1 | 4. Hide “Add Purchase” screen and display “Add Product Successfully  ok  Purchase Added apple successfully |
| 5. Click “OK” button | 6.Display “Main” screen |

2.



3.

Product: (productId, productName, price, amount)

Primary key is productId

Customer: (customerId, customerName)

Primary key is customerId

Purchase: (purchaseId, customerId, productId, amount)

Primary key is purchaseId

4.

CREATE TABLE Product (

ProductId int NOT NULL,

ProductName varchar(100),

Price float,

Amount int,

PRIMARY KEY (ProductId)

);

CREATE TABLE Customer (

CustomerId int NOT NULL,

CustomerName varchar(100),

PRIMARY KEY (CustomerId),

);

CREATE TABLE Purchase (

PurchaseId int NOT NULL,

CustomerId int NOT NULL,

ProductId int NOT NULL,

Amount int,

PRIMARY KEY (PurchaseId),

FOREIGN KEY (CustomerId) REFERENCES Customer(CustomerId),

FOREIGN KEY (ProductId) REFERENCES Product(ProductId),

);

5. INSERT INTO Product (productId , productName, price, amount)

   VALUES(1, ‘apple’, 2.0, 10), (2, ‘banana’, 3.0, 11), (3, ‘grape’, 3.0, 13), (4, ‘watermelon’, 4.0, 17), (5, ‘orange’, 4.0, 13);

  INSERT INTO Customer (customerId, customerName)

 VALUES(1, ‘QUAN’), (2, ‘ZHANG’), (3, ‘Bo’), (4, ‘Liu’), (5, ‘Qin’);

  INSERT INTO Purchase (purchaseId, customerId, productId, amount)

VALUES (1, 1, 1, 1), (2, 1, 2, 1), (3, 1, 3, 1), (4, 1, 4, 1), (5, 1, 5, 1), (6, 2, 1, 1), (7, 2, 2, 1), (8, 2, 3, 1), (9, 2, 4, 1), (10, 2, 5, 1);