**SUPER MARKET BILLING SYSTEM**

**Table schema;**

**1.customers**

CREATE TABLE `customers` (

`customer\_id` int NOT NULL AUTO\_INCREMENT,

`name` varchar(100) NOT NULL,

`contact` varchar(15) DEFAULT NULL,

PRIMARY KEY (`customer\_id`)

) ;

**2.products**

CREATE TABLE `products` (

`product\_id` int NOT NULL AUTO\_INCREMENT,

`category` varchar(100) NOT NULL,

`p\_name` varchar(100) NOT NULL,

`description` text,

`price` decimal(10,2) NOT NULL,

`stock\_quantity` decimal(10,2) NOT NULL,

PRIMARY KEY (`product\_id`)

);

**3.coupons**

CREATE TABLE `coupons` (

`coupon\_code` varchar(50) NOT NULL,

`discount\_percentage` decimal(5,2) NOT NULL,

`expiry\_date` date DEFAULT NULL,

`available\_coupon` int DEFAULT NULL,

PRIMARY KEY (`coupon\_code`),

CONSTRAINT `coupons\_chk\_1` CHECK ((`available\_coupon` >= 0))

);

**4.bills**

CREATE TABLE `bills` (

`bill\_id` int NOT NULL AUTO\_INCREMENT,

`customer\_id` int DEFAULT NULL,

`total\_amount` decimal(10,2) DEFAULT NULL,

`bill\_date` datetime DEFAULT CURRENT\_TIMESTAMP,

PRIMARY KEY (`bill\_id`),

KEY `customer\_id\_idx` (`customer\_id`,`bill\_id`)

);

**5.bill\_details**  
CREATE TABLE `bill\_details` (

`bill\_detail\_id` int NOT NULL AUTO\_INCREMENT,

`bill\_id` int DEFAULT NULL,

`product\_id` int DEFAULT NULL,

`quantity` int NOT NULL,

`amountPaid` decimal(10,2) NOT NULL,

`coupon` varchar(45) DEFAULT NULL,

PRIMARY KEY (`bill\_detail\_id`),

KEY `bill\_id` (`bill\_id`),

KEY `product\_id` (`product\_id`),

CONSTRAINT `bill\_details\_ibfk\_1` FOREIGN KEY (`bill\_id`) REFERENCES `bills` (`bill\_id`),

CONSTRAINT `bill\_details\_ibfk\_2` FOREIGN KEY (`product\_id`) REFERENCES `products` (`product\_id`)

);

**7.payments**

CREATE TABLE `payments` (

`payment\_id` int NOT NULL AUTO\_INCREMENT,

`bill\_id` int DEFAULT NULL,

`payment\_mode` varchar(50) NOT NULL,

`grandTotal` decimal(10,2) DEFAULT '0.00',

`payment\_date` timestamp NULL DEFAULT CURRENT\_TIMESTAMP,

`status` int DEFAULT '0',

PRIMARY KEY (`payment\_id`),

KEY `bill\_id` (`bill\_id`),

CONSTRAINT `payments\_ibfk\_1` FOREIGN KEY (`bill\_id`) REFERENCES `bills` (`bill\_id`)

);

**Sample output:**

**1.Bill Entry:**

**----BILLING SYSTEM----**

**1.Bill Entry**

**2.Reports**

**3.Exit**

**Enter your choice:1**

**Contact Number : 1234567890**

**Customer Name:sam**

**Product ID : 1**

**quantity : 3**

**Have any coupon(y/n):y**

**Enter the coupon code: FALL15**

**addProduct(y/n):y**

**Product ID : 3**

**quantity : 2**

**Have any coupon(y/n):n**

**Coupon Invalid/cancelled!!**

**addProduct(y/n):n**

**-------------------------**

**1. Cash**

**2. UPI**

**3. Card**

**4. Cancel**

**Choose the payment mode:2**

**Payment successful**

**------------------- BILL RECEIPT ----------------------------**

**Customer ID: 1**

**Bill Date: 2024-06-25**

**-------------------------------------------------------------------**

**Count | Product Name | Quantity | Price | Coupon Discount | Total**

**-------------------------------------------------------------------**

**1 | Laptop | 3 x 999.99 | 450.00 | 2549.97**

**2 | Headphones | 2 x 199.99 | 0.00 | 399.98**

**-------------------------------------------------------------------**

**TOTAL: 2949.95**

**-------------------------------------------------------------------**

**Process finished with exit code 0  
  
  
2.Reports**

**----BILLING SYSTEM----**

**1.Bill Entry**

**2.Reports**

**3.Exit**

**Enter your choice:2**

**-------------------------**

**1.Customer reports**

**2.Sales Reports**

**3.Stock Reports**

**4.Cancel**

**Enter the option:1**

**Choose an option:**

**1. Specific Customer ID**

**2. All Customers**

**1**

**Enter Customer ID: 1**

**Customer ID: 1**

**Customer Name: sam**

**Contact: 1234567890**

**--------------------------------------------------------**

**Bill ID: 1**

**Total Amount: 2949.95**

**Item: Laptop, Quantity: 3, Price: 999.99, Payment Status: successful**

**Payment date: 2024-06-25 12:54:19.0**

**Item: Headphones, Quantity: 2, Price: 199.99, Payment Status: successful**

**Payment date: 2024-06-25 12:54:19.0**

**----BILLING SYSTEM----**

**1.Bill Entry**

**2.Reports**

**3.Exit**

**Enter your choice:2**

**-------------------------**

**1.Customer reports**

**2.Sales Reports**

**3.Stock Reports**

**4.Cancel**

**Enter the option:2**

**Sales Report:**

**------------------------------------------------------------------**

**Product\_Name Total\_Quantity\_Sold Number\_of\_Entries Total\_Amount**

**------------------------------------------------------------------**

**Laptop 3 1 2999.97**

**Headphones 2 1 399.98**

**------------------------------------------------------------------**

**Total Sales Amount:3399.95**

**------------------------------------------------------------------**

**----BILLING SYSTEM----**

**1.Bill Entry**

**2.Reports**

**3.Exit**

**Enter your choice:2**

**-------------------------**

**1.Customer reports**

**2.Sales Reports**

**3.Stock Reports**

**4.Cancel**

**Enter the option:3**

**Stock Analysis Report:**

**-------------------------------------------------------------------------------------**

**Product ID Product Name Category Remaining Quantity Price**

**-------------------------------------------------------------------------------------**

**1 Laptop Electronics 963 999.99**

**2 Smartphone Electronics 985 699.99**

**3 Headphones Accessories 991 199.99**

**4 Monitor Monitors 996 299.99**

**5 Keyboard Accessories 997 89.99**

**-------------------------------------------------------------------------------------**

**----BILLING SYSTEM----**

**1.Bill Entry**

**2.Reports**

**3.Exit**

**Enter your choice:3**

**Process finished with exit code 0**