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Retail Store Management System

INDEX

Content	Page No.
1. Problem Statement	2
2. Use Case	2
3.EER Diagram	3
4. StoredProcedure/View/Triggers	3
5. Store Procedure – Customer Activity	4
6. View- Expired Products	5
7. View – Inventory Tracking	6
8. Triggers	7
9. Functions	8
10. Code	9

1. Problem Statement

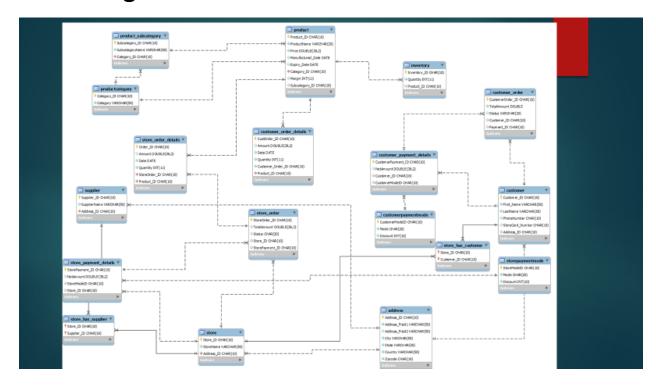
A retail store sells small quantities of products or services to the public. This store generally buys products from the manufacturers in large quantities and sells it to the customer with a marked-up price. Retail businesses include large department stores and chains or individual shops located in every community. The store needs to keep track of the products to be ordered from the manufacturers. Based on the categories of products, the store should place order to the manufacturers. Customers buy products from the store as per their needs. The store wants to develop a database that will efficiently help to track the data of an entity. (i.e. Products, Supplier, ProductCategory, Orders etc.)

2. Use Case

Use Case KEEP TRACK OF THE ORDERS PLACED TO THE SUPPLIERS TRACK PRODUCTS WITH QUANTITY BELOW A MARGIN. TRACK EXPIRED PRODUCTS

MANAGE THE CUSTOMER BUYING HABITS.

3.EER Diagram

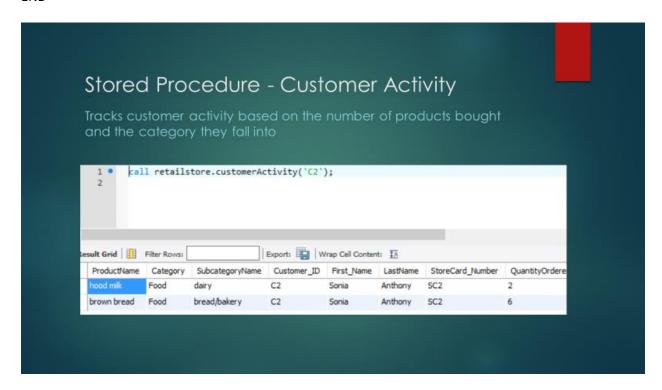


4. StoredProcedure/View/Triggers



5. Store Procedure - Customer Activity

CREATE DEFINER='root'@'localhost' PROCEDURE 'customerActivity'(in x char(10)) **BEGIN** declare customerid char(10); select p.ProductName,pc.Category, ps.SubcategoryName,c.Customer_ID, c.First_Name, c.LastName, c.StoreCard_Number, cod.Quantity as QuantityOrdered from product as p join customer order details as cod on p.Product ID = cod.Product ID join customer order as co on co.CustomerOrder ID = cod.Customer Order ID join customer as c on c.Customer ID = co.Customer ID join productcategory as pc on pc.Category ID = p.Category ID join product_subcategory as ps on ps.Subcategory_ID= p.Subcategory_ID where c.Customer_ID = xgroup by p.Product_ID; **END**



6. View- Expired Products

```
CREATE
  ALGORITHM = UNDEFINED
  DEFINER = `root`@`localhost`
  SQL SECURITY DEFINER
VIEW 'retailstore'. 'expired product details' AS
  SELECT
    'p'.'Product ID' AS 'Product ID',
    `p`.`ProductName` AS `ProductName`,
    'p'.'Expiry Date' AS 'Expiry Date',
    ('supl orders'.'Ordered quantity' - 'cust orders'.'quantity sold') AS 'remaining quantity'
  FROM
    ((`retailstore`.`product` `p`
    JOIN (SELECT
      'retailstore'.'customer order details'.'Product ID' AS 'Product ID',
         SUM(`retailstore`.`customer_order_details`.`Quantity`) AS `quantity_sold`
    FROM
       `retailstore`.`customer_order_details`
    GROUP BY 'retailstore'. 'customer_order_details'. 'Product_ID') 'cust_orders')
    JOIN (SELECT
      's'.'Product ID' AS 'Product ID',
        SUM('s'.'Quantity') AS 'Ordered quantity'
    FROM
       'retailstore'.'store order details' 's'
    GROUP BY 's'.'Product ID') 'supl orders')
    (('p'.'Product ID' = 'cust orders'.'Product ID')
      AND ('cust_orders'.'Product_ID' = 'supl_orders'.'Product_ID')
      AND ('p'.'Expiry_Date' < NOW()))
```



7. View – Inventory Tracking

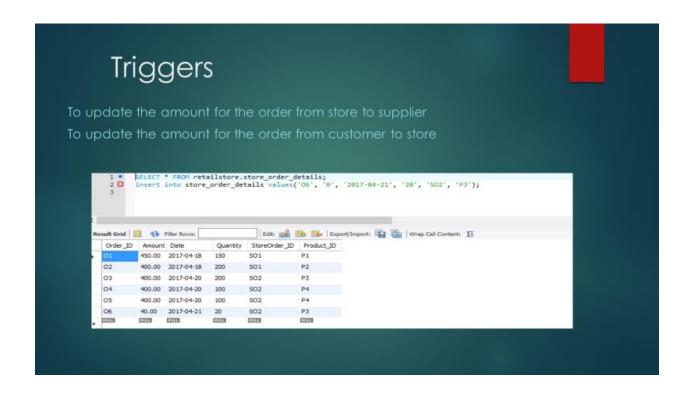
```
CREATE
  ALGORITHM = UNDEFINED
  DEFINER = `root`@`localhost`
  SQL SECURITY DEFINER
VIEW 'retailstore'. 'product gunatity inventory' AS
    'p'.'Product ID' AS 'Product ID',
    `p`.`ProductName` AS `ProductName`,
    'cust orders'.'quantity sold' AS 'quantity sold',
    'supl orders'.'Ordered quantity' AS 'Ordered quantity',
    (`supl_orders`.`Ordered_quantity` - `cust_orders`.`quantity_sold`) AS `remaining_quantity`
  FROM
    (('retailstore'.'product' 'p'
    JOIN (SELECT
      'retailstore'.'customer order details'.'Product ID' AS 'Product ID',
        SUM(`retailstore`.`customer_order_details`.`Quantity`) AS `quantity_sold`
    FROM
      `retailstore`.`customer_order_details`
    GROUP BY 'retailstore'.'customer_order_details'.'Product_ID') 'cust_orders')
    JOIN (SELECT
      's'.'Product ID' AS 'Product ID',
        SUM('s'.'Quantity') AS 'Ordered quantity'
    FROM
      `retailstore`.`store order details` `s`
    GROUP BY 's'. 'Product ID') 'supl orders')
  WHERE
    ((`p`.`Product_ID` = `cust_orders`.`Product_ID`)
      AND ('cust_orders'.'Product_ID' = 'supl_orders'.'Product_ID'))
```



8. Triggers

END

```
1. To calculate the amount for order from the customer to store:
CREATE DEFINER='root'@'localhost' TRIGGER 'customerorder_update'
       BEFORE insert
       ON 'customer order details'
       FOR EACH ROW
BEGIN
       set new.Amount =(select storeOrderAmount(p.Price, new.Quantity) as Amount
   from product as p
   where p.Product ID = new.Product ID
   and new.CustOrder_ID = new.CustOrder_ID);
END
2. To calculate the amount for order from the store to supplier:
CREATE DEFINER='root'@'localhost' TRIGGER 'order_update'
       BEFORE insert
       ON `store_order_details`
       FOR EACH ROW
BEGIN
       set new.Amount =(select storeOrderAmount(p.Price, new.Quantity) as Amount
   from product as p
   where p.Product ID = new.Product ID
   and new.Order ID = new.Order ID);
END
3. To track the remaining products in the store inventory:
CREATE DEFINER='root'@'localhost' TRIGGER 'update inventory'
       AFTER insert
       ON 'customer order details'
       FOR EACH ROW
BEGIN
       update inventory i
       set Quantity = Quantity - new.Quantity
       where i.Product_ID = new.Product_ID;
```



9. Functions

1.StoreOrderAmount – Calculates the amount for a product by multiplying the price from Product Table and quantity from the customer_order_details for customer order and from the store_order_details for store order.

```
CREATE DEFINER=`root`@`localhost` FUNCTION `StoreOrderAmount`(x int, y double) RETURNS double(38,2)
BEGIN
declare amount double(38,2);
declare v_amount double(38,2);
declare amount_cursor cursor for
select amount from store_order_details;
open amount_cursor;
fetch amount_cursor into v_amount;
set amount = x * y;
RETURN amount;
close amount_cursor;
END
```

1.StoreOrderDiscount – Calculates the net amount for a product by discount allotted for a particular payment mode and total amount for the order placed.

```
CREATE DEFINER=`root`@`localhost` FUNCTION `StoreOrderDiscont`( x int, amt double) RETURNS double(38,2) BEGIN declare netamt double(38,2); set netamt = amt + (amt*(x/100)); RETURN netamt; END
```

10. Code

```
-- MySQL dump 10.13 Distrib 5.7.12, for Win64 (x86 64)
-- Host: localhost Database: retailstore
-- Server version
                     5.7.17-log
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULTS */;
/*!40101 SET @OLD COLLATION CONNECTION=@@COLLATION CONNECTION */;
/*!40101 SET NAMES utf8 */;
/*!40103 SET @OLD TIME ZONE=@@TIME ZONE */;
/*!40103 SET TIME ZONE='+00:00' */;
/*!40014 SET @OLD UNIQUE CHECKS=@@UNIQUE CHECKS, UNIQUE CHECKS=0 */;
/*!40014 SET @OLD FOREIGN KEY CHECKS=@@FOREIGN KEY CHECKS, FOREIGN KEY CHECKS=0 */;
/*!40101 SET @OLD SQL MODE=@@SQL MODE, SQL MODE='NO AUTO VALUE ON ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
-- Table structure for table 'address'
DROP TABLE IF EXISTS 'address';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `address` (
 `Address ID` char(10) NOT NULL,
 `Address Field1` varchar(50) NOT NULL,
 `Address Field2` varchar(50) DEFAULT NULL,
 'City' varchar(50) NOT NULL,
 'State' varchar(50) NOT NULL,
 `Country` varchar(50) NOT NULL,
 'Zipcode' char(10) NOT NULL,
 PRIMARY KEY ('Address ID')
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'address'
LOCK TABLES 'address' WRITE;
/*!40000 ALTER TABLE `address` DISABLE KEYS */;
INSERT INTO 'address' VALUES ('A1','1167 Boylston Street',NULL,'Boston','MA','USA','2215'),('A2','360
Huntington Ave ',NULL,'Boston','MA','USA','2115'),('A3','400 Bedford Street
',NULL,'SanFransisco','CA','USA','94016'),('A4','35 Queensberry Street','Apt
23', 'Verona', 'PA', 'USA', '15147'), ('A5', '1163 Boyslton Street', 'Apt 31', 'Boston', 'MA', 'USA', '2215');
/*!40000 ALTER TABLE `address` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `customer`
DROP TABLE IF EXISTS 'customer';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `customer` (
 'Customer ID' char(10) NOT NULL,
 `First Name` varchar(50) NOT NULL,
 `LastName` varchar(50) NOT NULL,
 'PhoneNumber' char(10) DEFAULT NULL,
 `StoreCard_Number` char(10) DEFAULT NULL,
 `Address ID` char(10) DEFAULT NULL,
PRIMARY KEY ('Customer_ID'),
KEY 'IX_Relationship25' ('Address_ID'),
CONSTRAINT `FK Customer ID Address ID` FOREIGN KEY (`Address ID`) REFERENCES `address`
('Address ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'customer'
LOCK TABLES 'customer' WRITE;
/*!40000 ALTER TABLE `customer` DISABLE KEYS */;
INSERT INTO 'customer' VALUES
('C1', 'James', 'Bell', '8677463746', 'SC1', 'A4'), ('C2', 'Sonia', 'Anthony', '6178374846', 'SC2', 'A5');
/*!40000 ALTER TABLE `customer` ENABLE KEYS */;
UNLOCK TABLES;
```

```
-- Table structure for table `customer order`
DROP TABLE IF EXISTS 'customer order';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `customer order` (
 `CustomerOrder ID` char(10) NOT NULL,
 'TotalAmount' double NOT NULL,
 'Status' varchar(20) DEFAULT NULL,
 'Customer ID' char(10) DEFAULT NULL,
 'Payment ID' char(10) DEFAULT NULL,
 PRIMARY KEY ('CustomerOrder ID'),
 KEY 'IX Relationship37' ('Customer ID'),
 KEY `IX_Relationship43` (`Payment_ID`),
CONSTRAINT `FK_CustomerOrder_ID_CustomerPayment_ID` FOREIGN KEY (`Payment_ID`) REFERENCES
`customer_payment_details` (`CustomerPayment_ID`),
CONSTRAINT `FK CustomerOrder ID Customer ID` FOREIGN KEY (`Customer ID`) REFERENCES
`customer` (`Customer_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'customer order'
LOCK TABLES `customer_order` WRITE;
/*!40000 ALTER TABLE `customer_order` DISABLE KEYS */;
INSERT INTO 'customer order' VALUES
('CO1',27,'Pending','C2','CP2'),('CO2',22,'Pending','C1','CP1'),('CO3',6,'Pending','C1','CP4'),('CO4',0,NULL,'
C2','CP3');
/*!40000 ALTER TABLE `customer order` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `customer order details`
DROP TABLE IF EXISTS `customer_order_details`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `customer_order_details` (
 'CustOrder ID' char(10) NOT NULL,
 `Amount` double(38,2) DEFAULT NULL,
 'Date' date NOT NULL,
 'Quantity' int(11) NOT NULL,
 'Customer Order ID' char(10) NOT NULL,
```

```
'Product ID' char(10) NOT NULL,
 PRIMARY KEY ('CustOrder ID'),
 KEY 'IX Relationship10' ('Product ID'),
CONSTRAINT `FK Product ID CustOrder ID FOREIGN KEY (`Product ID`) REFERENCES `product`
('Product ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table `customer order details`
LOCK TABLES 'customer order details' WRITE;
/*!40000 ALTER TABLE `customer order details` DISABLE KEYS */;
INSERT INTO `customer order details` VALUES ('O1',6.00,'2017-04-20',2,'CO1','P1'),('O2',12.00,'2017-
04-20',6,'CO1','P2'),('O3',6.00,'2017-04-20',3,'CO2','P3'),('O4',16.00,'2017-04-
20',4,'CO2','P4'),('O5',6.00,'2017-04-20',2,'CO3','P5'),('O6',9.00,'2017-04-20',3,'CO1','P1');
/*!40000 ALTER TABLE `customer_order_details` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'customer payment details'
DROP TABLE IF EXISTS `customer_payment_details`;
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'customer payment details' (
 `CustomerPayment_ID` char(10) NOT NULL,
 'NetAmount' double(38,2) DEFAULT NULL,
 'Customer ID' char(10) DEFAULT NULL,
 `CustomerModeID` char(10) DEFAULT NULL,
 PRIMARY KEY ('CustomerPayment ID'),
 KEY 'IX Relationship44' ('Customer ID'),
 KEY 'IX Relationship47' ('CustomerModeID'),
CONSTRAINT `FK CustomerModeID CustomerPayment ID` FOREIGN KEY (`CustomerModeID`)
REFERENCES 'customerpaymentmode' ('CustomerModeID'),
CONSTRAINT `FK_Customer_ID_CustomerPayment_ID` FOREIGN KEY (`Customer_ID`) REFERENCES
`customer` (`Customer_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'customer payment details'
LOCK TABLES 'customer payment details' WRITE;
/*!40000 ALTER TABLE `customer payment details` DISABLE KEYS */;
```

```
INSERT INTO 'customer payment details' VALUES
('CP1',NULL,'C1','CM1'),('CP2',NULL,'C2','CM3'),('CP3',NULL,'C2','CM4'),('CP4',NULL,'C1','CM2');
/*!40000 ALTER TABLE `customer payment details` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `customerpaymentmode`
DROP TABLE IF EXISTS 'customerpaymentmode';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `customerpaymentmode` (
 `CustomerModeID` char(10) NOT NULL,
 'Mode' char(20) NOT NULL,
 'Discount' int(10) NOT NULL,
PRIMARY KEY ('CustomerModeID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `customerpaymentmode`
LOCK TABLES 'customerpaymentmode' WRITE;
/*!40000 ALTER TABLE `customerpaymentmode` DISABLE KEYS */;
INSERT INTO 'customerpaymentmode' VALUES
('CM1','CreditCard',5),('CM2','DebitCard',4),('CM3','Check',10),('CM4','Cash',6);
/*!40000 ALTER TABLE `customerpaymentmode` ENABLE KEYS */;
UNLOCK TABLES;
-- Temporary view structure for view `expiredproductdetails`
DROP TABLE IF EXISTS 'expired product details';
/*!50001 DROP VIEW IF EXISTS `expiredproductdetails`*/;
SET @saved cs client = @@character set client;
SET character_set_client = utf8;
/*!50001 CREATE VIEW `expiredproductdetails` AS SELECT
1 AS `Product_ID`,
1 AS `ProductName`,
1 AS 'Expiry_Date',
1 AS 'remaining quantity'*/;
SET character set client = @saved cs client;
-- Table structure for table `inventory`
```

```
DROP TABLE IF EXISTS 'inventory';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'inventory' (
 'Inventory_ID' char(10) NOT NULL,
 'Quantity' int(11) NOT NULL,
 `Product_ID` char(10) DEFAULT NULL,
 PRIMARY KEY ('Inventory ID'),
KEY 'IX Relationship27' ('Product ID'),
CONSTRAINT `FK Product ID Inventory ID` FOREIGN KEY (`Product ID`) REFERENCES `product`
('Product ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'inventory'
LOCK TABLES 'inventory' WRITE;
/*!40000 ALTER TABLE 'inventory' DISABLE KEYS */;
INSERT INTO `inventory` VALUES ('I1',0,'P1'),('I2',0,'P3'),('I3',0,'P2');
/*!40000 ALTER TABLE `inventory` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'product'
DROP TABLE IF EXISTS 'product';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `product` (
 'Product ID' char(10) NOT NULL,
 `ProductName` varchar(20) NOT NULL,
 'Price' double(38,2) NOT NULL,
 `Manufactured Date` date DEFAULT NULL,
 `Expiry_Date` date DEFAULT NULL,
 `Category_ID` char(10) NOT NULL,
 'Margin' int(11) DEFAULT NULL,
 `Subcategory_ID` char(10) DEFAULT NULL,
 PRIMARY KEY ('Product_ID'),
 KEY 'IX Relationship1' ('Category ID'),
 KEY 'IX Relationship36' ('Subcategory ID'),
CONSTRAINT `FK Category ID Product ID` FOREIGN KEY ('Category ID') REFERENCES
`productcategory` (`Category_ID`),
```

```
CONSTRAINT 'FK Subcategory ID Product ID' FOREIGN KEY ('Subcategory ID') REFERENCES
`product subcategory` (`Subcategory ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'product'
LOCK TABLES 'product' WRITE;
/*!40000 ALTER TABLE `product` DISABLE KEYS */;
INSERT INTO `product` VALUES ('P1','hood milk',2.99,'2017-04-19','2017-04-
29','1',50,'1'),('P10','iphone7',749.00,'2017-04-11',NULL,'5',50,'10'),('P2','brown bread ',1.74,'2017-04-
04','2017-04-10','1',30,'2'),('P3','white bread ',1.50,'2017-04-07','2017-04-
14','1',30,'2'),('P4','carrots',3.50,'2017-04-04','2017-04-09','1',20,'3'),('P5','potatoes',2.99,'2017-04-
05','2017-04-10','1',20,'3'),('P6','mens shirt',10.00,'2017-04-06',NULL,'2',50,'5'),('P7','wall
clock',15.00,'2017-04-10',NULL,'3',10,'7'),('P8','kellogs',5.00,'2017-04-08','2017-05-
20','1',20,'4'),('P9','womens dress',15.00,'2017-04-09',NULL,'2',50,'6');
/*!40000 ALTER TABLE `product` ENABLE KEYS */;
UNLOCK TABLES;
-- Temporary view structure for view 'product qunatity inventory'
DROP TABLE IF EXISTS 'product qunatity inventory';
/*!50001 DROP VIEW IF EXISTS `product qunatity inventory`*/;
SET @saved_cs_client = @@character_set_client;
SET character set client = utf8;
/*!50001 CREATE VIEW `product qunatity inventory` AS SELECT
1 AS 'Product ID',
1 AS 'ProductName',
1 AS 'quantity sold',
1 AS 'Ordered quantity',
1 AS 'remaining quantity'*/;
SET character set client = @saved cs client;
-- Table structure for table `product_subcategory`
DROP TABLE IF EXISTS 'product_subcategory';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'product subcategory' (
 'Subcategory ID' char(10) NOT NULL,
 `SubcategoryName` varchar(50) NOT NULL,
 `Category_ID` char(10) NOT NULL,
```

```
PRIMARY KEY ('Subcategory ID'),
KEY 'IX Relationship2' ('Category ID'),
CONSTRAINT `FK Subcategory ID Category ID `FOREIGN KEY (`Category ID') REFERENCES
`productcategory` (`Category ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'product_subcategory'
LOCK TABLES 'product subcategory' WRITE;
/*!40000 ALTER TABLE `product subcategory` DISABLE KEYS */;
INSERT INTO 'product_subcategory' VALUES
('1','dairy','1'),('10','cellphones','5'),('2','bread/bakery','1'),('3','vegetables','1'),('4','cereals','1'),('5','mens
clothing','2'),('6','womens clothing','2'),('7','clocks','3'),('8','decorative storage','3'),('9','cookware','4');
/*!40000 ALTER TABLE `product subcategory` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'productcategory'
DROP TABLE IF EXISTS 'productcategory';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'productcategory' (
 'Category ID' char(10) NOT NULL,
 `Category` varchar(50) NOT NULL,
PRIMARY KEY ('Category ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'productcategory'
LOCK TABLES 'productcategory' WRITE;
/*!40000 ALTER TABLE `productcategory` DISABLE KEYS */;
INSERT INTO `productcategory` VALUES ('1','Food'),('2','Clothing'),('3','home décor'),('4','kitchen and
dining'),('5','electronics');
/*!40000 ALTER TABLE `productcategory` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'store'
```

```
DROP TABLE IF EXISTS 'store':
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'store' (
 'Store ID' char(10) NOT NULL,
 'StoreName' varchar(50) NOT NULL,
 `Address_ID` char(10) NOT NULL,
 PRIMARY KEY ('Store ID'),
KEY `IX_Relationship24` (`Address_ID`),
CONSTRAINT 'Relationship24' FOREIGN KEY ('Address ID') REFERENCES 'address' ('Address ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'store'
LOCK TABLES 'store' WRITE;
/*!40000 ALTER TABLE `store` DISABLE KEYS */;
INSERT INTO 'store' VALUES ('S1', 'Target1', 'A3'), ('S2', 'Target2', 'A2');
/*!40000 ALTER TABLE `store` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'store has customer'
DROP TABLE IF EXISTS 'store has customer';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'store has customer' (
 `Store_ID` char(10) NOT NULL,
 'Customer ID' char(10) NOT NULL,
 PRIMARY KEY ('Store ID', 'Customer ID'),
KEY 'Relationship55' ('Customer ID'),
CONSTRAINT `Relationship54` FOREIGN KEY (`Store ID`) REFERENCES `store` (`Store ID`),
CONSTRAINT `Relationship55` FOREIGN KEY (`Customer ID`) REFERENCES `customer` (`Customer ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table `store_has_customer`
LOCK TABLES 'store has customer' WRITE;
/*!40000 ALTER TABLE `store has customer` DISABLE KEYS */;
INSERT INTO 'store has customer' VALUES ('S1','C1'),('S2','C1'),('S1','C2');
/*!40000 ALTER TABLE `store has customer` ENABLE KEYS */;
```

```
UNLOCK TABLES:
-- Table structure for table 'store has supplier'
DROP TABLE IF EXISTS 'store_has_supplier';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE 'store has supplier' (
 'Store ID' char(10) NOT NULL,
 'Supplier ID' char(10) NOT NULL,
PRIMARY KEY ('Store ID', Supplier ID'),
 KEY `Relationship52` (`Supplier_ID`),
CONSTRAINT `Relationship51` FOREIGN KEY (`Store ID`) REFERENCES `store` (`Store ID`),
CONSTRAINT `Relationship52` FOREIGN KEY (`Supplier_ID`) REFERENCES `supplier` (`Supplier_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'store has supplier'
LOCK TABLES 'store has supplier' WRITE;
/*!40000 ALTER TABLE `store has supplier` DISABLE KEYS */;
INSERT INTO 'store has supplier' VALUES ('S1','1'),('S2','1');
/*!40000 ALTER TABLE `store has supplier` ENABLE KEYS */;
UNLOCK TABLES:
-- Table structure for table `store_order`
DROP TABLE IF EXISTS 'store order';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE `store order` (
 `StoreOrder ID` char(10) NOT NULL,
 `TotalAmount` double(38,2) DEFAULT NULL,
 'Status' char(20) DEFAULT NULL,
 `Store_ID` char(10) DEFAULT NULL,
 `StorePayment ID` char(10) DEFAULT NULL,
 PRIMARY KEY ('StoreOrder_ID'),
 KEY 'IX Relationship9' ('Store ID'),
 KEY 'IX Relationship38' ('StorePayment ID'),
CONSTRAINT `FK StoreOrder ID Store ID` FOREIGN KEY ('Store ID'), REFERENCES 'store' ('Store ID'),
CONSTRAINT `FK StorePayment ID StoreOrder ID FOREIGN KEY (`StorePayment ID') REFERENCES
'store payment details' ('StorePayment ID')
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table `store_order`
LOCK TABLES 'store order' WRITE;
/*!40000 ALTER TABLE `store_order` DISABLE KEYS */;
INSERT INTO 'store order' VALUES
('SO1',850.00,NULL,'S2','SP2'),('SO2',800.00,NULL,'S1','SP1'),('SO3',600.00,NULL,'S1','SP4'),('SO4',NULL,N
ULL,'S2','SP3'),('SO6',NULL,",'S1','SP5');
/*!40000 ALTER TABLE `store order` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'store order details'
DROP TABLE IF EXISTS 'store_order_details';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'store order details' (
 'Order ID' char(10) NOT NULL,
 `Amount` double(38,2) DEFAULT NULL,
 'Date' date NOT NULL,
 'Quantity' int(11) NOT NULL,
 `StoreOrder ID` char(10) NOT NULL,
 `Product_ID` char(10) NOT NULL,
 PRIMARY KEY ('Order ID'),
KEY 'IX Relationship7' ('StoreOrder ID'),
 KEY 'IX_Relationship8' ('Product_ID'),
CONSTRAINT `FK Product ID Order ID `FOREIGN KEY (`Product ID`) REFERENCES `product`
('Product ID'),
CONSTRAINT `FK StoreOrder ID Order ID` FOREIGN KEY ('StoreOrder ID') REFERENCES `store order`
('StoreOrder ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'store_order_details'
LOCK TABLES 'store order details' WRITE;
/*!40000 ALTER TABLE 'store order details' DISABLE KEYS */;
INSERT INTO `store order details` VALUES ('01',450.00,'2017-04-18',150,'S01','P1'),('02',400.00,'2017-
04-18',200,'SO1','P2'),('O3',400.00,'2017-04-20',200,'SO2','P3'),('O4',400.00,'2017-04-
20',100,'SO2','P4'),('O5',400.00,'2017-04-20',100,'SO2','P4');
```

```
/*!40000 ALTER TABLE `store order details` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'store payment details'
DROP TABLE IF EXISTS 'store payment details';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'store payment details' (
 `StorePayment ID` char(10) NOT NULL,
 `NetAmount` double(38,2) DEFAULT NULL,
 `StoreModeID` char(10) DEFAULT NULL,
 `Store ID` char(10) DEFAULT NULL,
 PRIMARY KEY ('StorePayment ID'),
 KEY 'IX Relationship36' ('StoreModeID'),
KEY 'IX_Relationship39' ('Store_ID'),
CONSTRAINT `FK StoreModeID StorePayment ID` FOREIGN KEY (`StoreModeID`) REFERENCES
`storepaymentmode` (`StoreModeID`),
CONSTRAINT `FK StorePayment ID Store ID` FOREIGN KEY ('Store ID') REFERENCES 'store'
('Store ID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'store payment details'
LOCK TABLES 'store payment details' WRITE;
/*!40000 ALTER TABLE `store payment details` DISABLE KEYS */;
INSERT INTO 'store_payment_details' VALUES
('SP1',920.00,'SM1','S1'),('SP2',1003.00,'SM3','S2'),('SP3',NULL,'SM4','S2'),('SP4',660.00,'SM2','S1'),('SP5',
NULL,'SM2','S1');
/*!40000 ALTER TABLE `store payment details` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table `storepaymentmode`
DROP TABLE IF EXISTS 'storepaymentmode';
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'storepaymentmode' (
 'StoreModeID' char(10) NOT NULL,
 `Mode` char(20) NOT NULL,
 'Discount' int(10) NOT NULL,
```

```
PRIMARY KEY ('StoreModeID')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
-- Dumping data for table 'storepaymentmode'
LOCK TABLES 'storepaymentmode' WRITE;
/*!40000 ALTER TABLE `storepaymentmode` DISABLE KEYS */;
INSERT INTO 'storepaymentmode' VALUES
('SM1','CreditCard',15),('SM2','DebitCard',10),('SM3','Check',18),('SM4','Cash',20);
/*!40000 ALTER TABLE `storepaymentmode` ENABLE KEYS */;
UNLOCK TABLES;
-- Table structure for table 'supplier'
DROP TABLE IF EXISTS 'supplier';
/*!40101 SET @saved cs client = @@character set client */;
/*!40101 SET character set client = utf8 */;
CREATE TABLE 'supplier' (
 'Supplier ID' char(10) NOT NULL,
 `SupplierName` varchar(50) NOT NULL,
 `Address ID` char(10) NOT NULL,
PRIMARY KEY ('Supplier ID'),
KEY 'IX_Relationship23' ('Address_ID'),
CONSTRAINT `FK_Store_ID_Address_ID` FOREIGN KEY (`Address_ID`) REFERENCES `address`
(`Address ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table 'supplier'
LOCK TABLES 'supplier' WRITE;
/*!40000 ALTER TABLE `supplier` DISABLE KEYS */;
INSERT INTO 'supplier' VALUES ('1', 'Supplier 1', 'A1');
/*!40000 ALTER TABLE `supplier` ENABLE KEYS */;
UNLOCK TABLES;
-- Final view structure for view `expiredproductdetails`
/*!50001 DROP VIEW IF EXISTS `expiredproductdetails`*/;
```

```
/*!50001 SET @saved cs client
                                    = @@character set client */;
/*!50001 SET @saved cs results
                                     = @@character set results */;
/*!50001 SET @saved col connection
                                        = @@collation connection */;
/*!50001 SET character set client
                                    = utf8 */;
/*!50001 SET character set results
                                    = utf8 */;
/*!50001 SET collation_connection
                                     = utf8_general_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `expiredproductdetails` AS select `p`.`Product_ID` AS `Product_ID`,`p`.`ProductName` AS
'ProductName', 'p'. 'Expiry Date' AS 'Expiry Date', ('supl orders'. 'Ordered quantity' -
'cust orders'.'quantity sold') AS 'remaining quantity' from (('retailstore'.'product' 'p' join (select
'retailstore'.'customer order details'.'Product ID' AS
'Product ID',sum('retailstore'.'customer order details'.'Quantity') AS 'quantity sold' from
'retailstore'.'customer order details' group by 'retailstore'.'customer order details'.'Product ID')
'cust orders') join (select 's'.'Product ID' AS 'Product ID',sum('s'.'Quantity') AS 'Ordered quantity'
from `retailstore`.`store_order_details` `s` group by `s`.`Product_ID`) `supl_orders`) where
(('p'.'Product_ID' = 'cust_orders'.'Product_ID') and ('cust_orders'.'Product_ID' =
`supl_orders`.`Product_ID`) and (`p`.`Expiry_Date` < now())) */;
/*!50001 SET character set client = @saved cs client */;
/*!50001 SET character set results = @saved cs results */;
/*!50001 SET collation connection = @saved col connection */;
-- Final view structure for view 'product qunatity inventory'
/*!50001 DROP VIEW IF EXISTS `product qunatity inventory`*/;
/*!50001 SET @saved cs client
                                    = @@character_set_client */;
/*!50001 SET @saved cs results
                                     = @@character_set_results */;
/*!50001 SET @saved col connection = @@collation connection */;
/*!50001 SET character set client
                                    = utf8 */;
/*!50001 SET character_set_results = utf8 */;
/*!50001 SET collation connection
                                     = utf8 general ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `product qunatity inventory` AS select `p`.`Product ID` AS
'Product ID', 'p'. 'ProductName' AS 'ProductName', 'cust orders'. 'quantity sold' AS
'quantity sold', 'supl orders'. 'Ordered quantity' AS
`Ordered_quantity`,(`supl_orders`.`Ordered_quantity` - `cust_orders`.`quantity_sold`) AS
`remaining_quantity` from ((`retailstore`.`product` `p` join (select
`retailstore`.`customer_order_details`.`Product_ID` AS
'Product ID',sum('retailstore'.'customer order details'.'Quantity') AS 'quantity sold' from
'retailstore'.'customer_order_details' group by 'retailstore'.'customer_order_details'.'Product_ID')
'cust orders') join (select 's'.'Product ID' AS 'Product ID',sum('s'.'Quantity') AS 'Ordered quantity'
from 'retailstore'. 'store order details' 's' group by 's'. 'Product ID') 'supl orders') where
(('p'.'Product_ID' = 'cust_orders'.'Product_ID') and ('cust_orders'.'Product_ID' =
`supl orders`.`Product ID`)) */;
/*!50001 SET character set client = @saved cs client */;
```

```
/*!50001 SET character_set_results = @saved_cs_results */;
/*!50001 SET collation_connection = @saved_col_connection */;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;
```

-- Dump completed on 2017-04-21 8:56:52