**Project Report on “E-commerce system for company EzeeBiz Solutions”**

EzeeBiz solution wants to maintain database which will handle its business. EzeeBiz solutions is a small company which is focused in providing platform where customers can do online shopping. Multiple suppliers can use Ezeebiz system to sell their own products.

A database has been created in MySQL 5.5 which will handle all the data and business for Ezeebiz Solutions.

Below are the list of Business rules Ezeebiz Solutions wants to implement using MySQL database.

1. There can be 0 or more suppliers.
2. Supplier can own 0 or more product at a time for selling purpose.
3. A product can have 0 or more discounts but only 1 discount at a time.
4. A product can be given 0 or more ratings at a time.
5. There can be 0 or more customers.
6. Customers can own 0 or more credit cards as mode of payment.
7. Customers can own 0 or more gift cards as mode of payment.
8. Customer’s address needs to be stored separately (address can be only Mailing or Billing)
9. Customer can place 0 or more purchase orders but only 1 at a time.
10. Purchase orders should contain minimum 1 and maximum ‘N’ order items in it.
11. Order item will contain 1 product and multiple quantities of the same product.
12. Once the order is placed by user, 1 invoice will be generated for given PO.
13. Purchase order will then be placed inside single shipment.
14. Warehouse can prepare 0 or more shipments at a time.
15. Once the shipment is created by warehouse, a delivery provider will attempt to deliver 0 or more shipments at a time.
16. Delivery provider can generate 0 or more tracking IDs.
17. Single tracking ID will contain 1 or more tracking statuses.

**ER Diagram:** Based on above Business rules, ER diagram is created as attached.



**Data Insertion:** Below file contains steps to insert the data in the EzeeBiz database.

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**Triggers and Validations:** Attached file contains list of triggers created for validation and other calculations purpose.



**Stored Procedures:** Attached file contains list of stored procedures created.



**Users and Access:** Attached file contains list of users created along with access levels given to them.



**Views:** Some of the views are created to view the high-level data from the system. Attached file contains the list of same.

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**Backup and Restore:** Since the solution is developed for small size client, system admin will be manually taking full backups at the end of each day. And during the failure or crash of database, backup file will be restored by the system admin.

Attached is the full backup taken on 04/22/2018 at 8.00pm.



**Executable Queries:** Attached file contains list of all queries required to run the system.



**Test Data:** Attached file contains data created for this project.



**Appendix:** Below section contains the queries from overall backup file**.**

-- MySQL dump 10.13 Distrib 5.7.17, for Win64 (x86\_64)

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-- Host: 127.0.0.1 Database: ezeebizdb

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-- Server version 5.5.59

/\*!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 `creditcard`

--

DROP TABLE IF EXISTS `creditcard`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `creditcard` (

`CCNumber` varchar(64) NOT NULL,

`Customer\_CustomerID` int(10) unsigned DEFAULT NULL,

`CVV` varchar(64) NOT NULL,

`ExpiryYear` tinyint(2) unsigned NOT NULL,

`ExpiryMonth` tinyint(2) unsigned NOT NULL,

`CardType` varchar(10) NOT NULL COMMENT 'Type = Master/Visa/AMEX',

PRIMARY KEY (`CCNumber`),

KEY `fk\_CreditCard\_Customer1\_idx` (`Customer\_CustomerID`),

CONSTRAINT `fk\_CreditCard\_Customer1` FOREIGN KEY (`Customer\_CustomerID`) REFERENCES `customer` (`CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `creditcard`

--

LOCK TABLES `creditcard` WRITE;

/\*!40000 ALTER TABLE `creditcard` DISABLE KEYS \*/;

INSERT INTO `creditcard` VALUES ('33cdbc3872b3789776eff6178cd7585d9c9b080c752aa4e92c274d768e2a7ea2',1,'a665a45920422f9d417e4867efdc4fb8a04a1f3fff1fa07e998e86f7f7a27ae3',20,12,'VISA'),('606be4be7da45ecaae02068579b7579f4c9218c87fa7e3678b3b151c78457908',2,'b3a8e0e1f9ab1bfe3a36f231f676f78bb30a519d2b21e6c530c0eee8ebb4a5d0',22,10,'AMEX');

/\*!40000 ALTER TABLE `creditcard` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_validate\_creditcard

BEFORE INSERT ON creditcard

FOR EACH ROW

BEGIN

IF LENGTH(NEW.CCNumber) <> 16

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Credit Card umber should be 16 digits';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- 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` (

`CustomerID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`FirstName` varchar(30) NOT NULL,

`LastName` varchar(30) NOT NULL,

`Email` varchar(45) NOT NULL,

`ContactNo` varchar(10) NOT NULL,

PRIMARY KEY (`CustomerID`)

) ENGINE=InnoDB AUTO\_INCREMENT=3 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 (1,'John','Bills','john@gmail.com','1234567890'),(2,'Brown','Wills','brown@gmail.com','9876543210');

/\*!40000 ALTER TABLE `customer` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_customer\_validate\_contact\_and\_email

BEFORE INSERT ON customer

FOR EACH ROW

BEGIN

IF NEW.email NOT LIKE '%\_@%\_.\_%'

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Email column is not valid';

ELSEIF LENGTH(NEW.ContactNo) < 10

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Contact Number should be 10 digit';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `customeraddress`

--

DROP TABLE IF EXISTS `customeraddress`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `customeraddress` (

`AddressType` varchar(15) NOT NULL COMMENT 'Address Type Should be either Shipping or Billing.',

`Customer\_CustomerID` int(10) unsigned NOT NULL,

`Street` varchar(45) NOT NULL,

`City` varchar(25) NOT NULL,

`State` varchar(2) NOT NULL,

`ZIP` varchar(10) NOT NULL,

PRIMARY KEY (`AddressType`,`Customer\_CustomerID`),

KEY `fk\_CustomerAddress\_Customer1\_idx` (`Customer\_CustomerID`),

CONSTRAINT `fk\_CustomerAddress\_Customer1` FOREIGN KEY (`Customer\_CustomerID`) REFERENCES `customer` (`CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `customeraddress`

--

LOCK TABLES `customeraddress` WRITE;

/\*!40000 ALTER TABLE `customeraddress` DISABLE KEYS \*/;

INSERT INTO `customeraddress` VALUES ('Billing',1,'90 Charles st','Boston','MA','02563'),('Billing',2,'10 waltham st','Boston','MA','02854'),('Mailing',1,'75 Smith st','Boston','MA','02115'),('Mailing',2,'10 Prince st','Boston','MA','02651');

/\*!40000 ALTER TABLE `customeraddress` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_customer\_validate\_customeradd\_type

BEFORE INSERT ON customeraddress

FOR EACH ROW

BEGIN

IF NEW.addresstype <> 'Billing'

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Address type should be Billing or Mailing';

ELSEIF NEW.addresstype <> 'Mailing'

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Address type should be Billing or Mailing';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `deliveryprovider`

--

DROP TABLE IF EXISTS `deliveryprovider`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `deliveryprovider` (

`ProviderID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`ProviderName` varchar(45) NOT NULL,

`ProviderContactNo` varchar(10) NOT NULL,

`ProviderEmail` varchar(45) NOT NULL,

`ProviderStreet` varchar(45) NOT NULL,

`ProviderCity` varchar(25) NOT NULL,

`ProviderState` varchar(45) NOT NULL,

`ProviderZIP` varchar(10) NOT NULL,

PRIMARY KEY (`ProviderID`)

) ENGINE=InnoDB AUTO\_INCREMENT=3 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `deliveryprovider`

--

LOCK TABLES `deliveryprovider` WRITE;

/\*!40000 ALTER TABLE `deliveryprovider` DISABLE KEYS \*/;

INSERT INTO `deliveryprovider` VALUES (1,'Fedex-Bos','1234567890','fedexbos@gmail.com','columbus ave','Boston','MA','02115'),(2,'Fedex-Cal','9876543210','fedexcal@gmail.com','south ave','California','CA','90001');

/\*!40000 ALTER TABLE `deliveryprovider` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `giftcard`

--

DROP TABLE IF EXISTS `giftcard`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `giftcard` (

`GiftcardID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`Customer\_CustomerID` int(10) unsigned DEFAULT NULL,

`Amount` int(10) unsigned NOT NULL DEFAULT '10',

`Expirydate` date NOT NULL,

PRIMARY KEY (`GiftcardID`),

KEY `fk\_GiftCard\_Customer\_idx` (`Customer\_CustomerID`),

CONSTRAINT `fk\_GiftCard\_Customer` FOREIGN KEY (`Customer\_CustomerID`) REFERENCES `customer` (`CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=4 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `giftcard`

--

LOCK TABLES `giftcard` WRITE;

/\*!40000 ALTER TABLE `giftcard` DISABLE KEYS \*/;

INSERT INTO `giftcard` VALUES (1,1,100,'2018-03-03'),(2,1,1500,'2018-06-06'),(3,2,65,'2018-05-05');

/\*!40000 ALTER TABLE `giftcard` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `invoice`

--

DROP TABLE IF EXISTS `invoice`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `invoice` (

`InvoiceID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`PurchaseOrder\_PONumber` int(10) unsigned NOT NULL,

`PurchaseOrder\_Customer\_CustomerID` int(10) unsigned NOT NULL,

`ShippingSpeed` varchar(20) NOT NULL DEFAULT 'normal' COMMENT 'Shipping Speed should be 2day/1day/normal',

`TotalAmount` float unsigned DEFAULT NULL,

`invoicestreet` varchar(45) DEFAULT NULL,

`invoicecity` varchar(25) DEFAULT NULL,

`invoicestate` varchar(2) DEFAULT NULL,

`invoicezip` varchar(10) DEFAULT NULL,

PRIMARY KEY (`InvoiceID`,`PurchaseOrder\_PONumber`,`PurchaseOrder\_Customer\_CustomerID`),

KEY `fk\_Invoice\_PurchaseOrder1\_idx` (`PurchaseOrder\_PONumber`,`PurchaseOrder\_Customer\_CustomerID`),

CONSTRAINT `fk\_Invoice\_PurchaseOrder1` FOREIGN KEY (`PurchaseOrder\_PONumber`, `PurchaseOrder\_Customer\_CustomerID`) REFERENCES `purchaseorder` (`PONumber`, `Customer\_CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=8 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `invoice`

--

LOCK TABLES `invoice` WRITE;

/\*!40000 ALTER TABLE `invoice` DISABLE KEYS \*/;

INSERT INTO `invoice` VALUES (1,1,1,'1day',2595,NULL,NULL,NULL,NULL),(2,2,1,'normal',285,NULL,NULL,NULL,NULL),(3,3,1,'2day',600,NULL,NULL,NULL,NULL),(4,4,1,'2day',600,'90 Charles st','Boston','MA','02563'),(5,5,1,'2day',800,'90 Charles st','Boston','MA','02563'),(6,6,1,'1day',1710,'90 Charles st','Boston','MA','02563'),(7,7,2,'normal',85,'10 waltham st','Boston','MA','02854');

/\*!40000 ALTER TABLE `invoice` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_shipping\_speed\_get\_billing\_address

BEFORE INSERT ON invoice

FOR EACH ROW

BEGIN

IF (NEW.TotalAmount > 1000)

THEN

SET NEW.ShippingSpeed = '1day';

ELSEIF (NEW.TotalAmount > 500 AND NEW.TotalAmount <= 1000)

THEN

SET NEW.ShippingSpeed = '2day';

END IF;

-- get billing address of customer from customeraddress table

SELECT street, city, state, zip

INTO @street, @city, @state, @zip

FROM customeraddress

WHERE Customer\_CustomerID = NEW.PurchaseOrder\_Customer\_CustomerID

AND AddressType = 'Billing';

-- update the billing address

SET NEW.invoicestreet = @street, NEW.invoicecity = @city,

NEW.invoicestate = @state, NEW.invoicezip = @zip;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_update\_giftcard\_balance

AFTER INSERT ON invoice

FOR EACH ROW

BEGIN

-- update giftcard balance if payment method is giftcard

-- get payment method from PO of given invoice

SELECT purchaseorder.PaymentMethod

INTO @paymentmethod

FROM purchaseorder

WHERE purchaseorder.PONumber = NEW.PurchaseOrder\_PONumber;

IF @paymentmethod = 'giftcard'

THEN

-- get giftcard balance of given customer and deduct amount

SELECT giftcard.Amount, giftcard.GiftcardID

INTO @giftcardamt, @giftcardid

FROM giftcard

WHERE giftcard.Customer\_CustomerID = NEW.PurchaseOrder\_Customer\_CustomerID

AND giftcard.Expirydate >= now();

-- set amount to 0 if invoice amount is greater than balance

-- else deduct the gift card balance

IF NEW.TotalAmount > @giftcardamt

THEN

SET @newbalance = 0;

ELSE

SET @newbalance = @giftcardamt - NEW.TotalAmount;

END IF;

-- update the giftcard balance now for given cardID

UPDATE giftcard SET giftcard.Amount = @newbalance

WHERE giftcard.GiftcardID = @giftcardid;

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `orderitem`

--

DROP TABLE IF EXISTS `orderitem`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `orderitem` (

`OrderItemID` int(5) unsigned NOT NULL AUTO\_INCREMENT,

`PurchaseOrder\_PONumber` int(10) unsigned NOT NULL,

`PurchaseOrder\_Customer\_CustomerID` int(10) unsigned NOT NULL,

`Product\_ProductID` int(5) unsigned NOT NULL,

`OrderedQty` int(2) unsigned NOT NULL,

PRIMARY KEY (`OrderItemID`,`PurchaseOrder\_PONumber`,`PurchaseOrder\_Customer\_CustomerID`),

KEY `fk\_OrderItem\_PurchaseOrder1\_idx` (`PurchaseOrder\_PONumber`,`PurchaseOrder\_Customer\_CustomerID`),

KEY `fk\_OrderItem\_Product1\_idx` (`Product\_ProductID`),

CONSTRAINT `fk\_OrderItem\_Product1` FOREIGN KEY (`Product\_ProductID`) REFERENCES `product` (`ProductID`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `fk\_OrderItem\_PurchaseOrder1` FOREIGN KEY (`PurchaseOrder\_PONumber`, `PurchaseOrder\_Customer\_CustomerID`) REFERENCES `purchaseorder` (`PONumber`, `Customer\_CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=11 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `orderitem`

--

LOCK TABLES `orderitem` WRITE;

/\*!40000 ALTER TABLE `orderitem` DISABLE KEYS \*/;

INSERT INTO `orderitem` VALUES (1,1,1,1,10),(2,1,1,2,7),(3,2,1,1,1),(4,2,1,2,1),(5,3,1,1,3),(6,4,1,1,3),(7,5,1,1,4),(8,6,1,1,6),(9,6,1,2,6),(10,7,2,2,1);

/\*!40000 ALTER TABLE `orderitem` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_validate\_orderitem\_quantity

BEFORE INSERT ON orderitem

FOR EACH ROW

BEGIN

-- get available product quantity from product table

SELECT product.AvailProductQty INTO @availprodqty

FROM product

WHERE product.ProductID = NEW.Product\_ProductID;

-- if order item quantity is less than 0 or greater than prod qty --> error

IF (NEW.orderedqty < 0) OR (NEW.orderedqty > @availprodqty)

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Order item quantity is invalid';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_reduce\_product\_qty

AFTER INSERT ON orderitem

FOR EACH ROW

BEGIN

UPDATE Product

SET AvailProductQty = AvailProductQty - NEW.OrderedQty

WHERE Product.ProductID = NEW.Product\_ProductID;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_increase\_product\_qty

AFTER DELETE ON orderitem

FOR EACH ROW

BEGIN

UPDATE Product

SET AvailProductQty = AvailProductQty + OLD.OrderedQty

WHERE Product.ProductID = OLD.Product\_ProductID;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- 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` (

`ProductID` int(5) unsigned NOT NULL AUTO\_INCREMENT,

`Supplier\_SupplierID` int(5) NOT NULL,

`ProductName` varchar(30) NOT NULL,

`AvailProductQty` int(2) NOT NULL,

`ProductPrice` float unsigned NOT NULL,

PRIMARY KEY (`ProductID`),

KEY `fk\_Product\_Supplier1\_idx` (`Supplier\_SupplierID`),

CONSTRAINT `fk\_Product\_Supplier1` FOREIGN KEY (`Supplier\_SupplierID`) REFERENCES `supplier` (`SupplierID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=4 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 (1,1,'Iphone',15,200),(2,1,'Samsung',29,100),(3,2,'Laptop',10,1200);

/\*!40000 ALTER TABLE `product` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_validate\_available\_product\_qty

BEFORE INSERT ON product

FOR EACH ROW

BEGIN

IF NEW.availproductqty < 0

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Product Quantity cannot be negative';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `productdiscount`

--

DROP TABLE IF EXISTS `productdiscount`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `productdiscount` (

`DiscountID` smallint(5) unsigned NOT NULL AUTO\_INCREMENT,

`Product\_ProductID` int(5) unsigned NOT NULL,

`DiscountStartDate` date NOT NULL,

`DiscountEndDate` date NOT NULL,

`DiscountPercentage` tinyint(2) unsigned NOT NULL,

PRIMARY KEY (`DiscountID`,`Product\_ProductID`),

KEY `fk\_ProductDiscount\_Product1\_idx` (`Product\_ProductID`),

CONSTRAINT `fk\_ProductDiscount\_Product1` FOREIGN KEY (`Product\_ProductID`) REFERENCES `product` (`ProductID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=4 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `productdiscount`

--

LOCK TABLES `productdiscount` WRITE;

/\*!40000 ALTER TABLE `productdiscount` DISABLE KEYS \*/;

INSERT INTO `productdiscount` VALUES (1,1,'2018-03-01','2018-03-31',10),(2,2,'2018-04-04','2018-04-30',15),(3,3,'2018-04-04','2018-04-30',20);

/\*!40000 ALTER TABLE `productdiscount` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_validate\_product\_disc\_percentage

BEFORE INSERT ON productdiscount

FOR EACH ROW

BEGIN

IF NEW.DiscountPercentage = 0

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Product Discount cannot be 0';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `purchaseorder`

--

DROP TABLE IF EXISTS `purchaseorder`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `purchaseorder` (

`PONumber` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`Customer\_CustomerID` int(10) unsigned NOT NULL,

`OrderPlacedOn` date NOT NULL,

`OrderStatus` varchar(20) NOT NULL DEFAULT 'Placed' COMMENT 'Status should be either Placed/Shipped/Delivered',

`PaymentMethod` varchar(10) NOT NULL COMMENT 'Payment Method should be Card/Cash/Gift Card',

`Deliverat` varchar(15) DEFAULT NULL,

`DeliveryStreet` varchar(45) NOT NULL,

`DeliveryCity` varchar(25) NOT NULL,

`DeliveryState` varchar(2) NOT NULL,

`DeliveryZIP` varchar(10) NOT NULL,

PRIMARY KEY (`PONumber`,`Customer\_CustomerID`),

KEY `fk\_PurchaseOrder\_Customer1\_idx` (`Customer\_CustomerID`),

CONSTRAINT `fk\_PurchaseOrder\_Customer1` FOREIGN KEY (`Customer\_CustomerID`) REFERENCES `customer` (`CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=8 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `purchaseorder`

--

LOCK TABLES `purchaseorder` WRITE;

/\*!40000 ALTER TABLE `purchaseorder` DISABLE KEYS \*/;

INSERT INTO `purchaseorder` VALUES (1,1,'2018-04-16','Delivered','Card',NULL,'75 Smith st','Boston','MA','02115'),(2,1,'2018-04-16','Delivered','Card',NULL,'90 Mission Hill','Boston','MA','02120'),(3,1,'2018-04-17','Delivered','Card',NULL,'91 Mission Hill','Boston','MA','02120'),(4,1,'2018-04-20','Delivered','Card',NULL,'91 Mission Hill','Boston','MA','02120'),(5,1,'2018-04-20','Delivered','Card','Mailing','75 Smith st','Boston','MA','02115'),(6,1,'2018-04-21','Delivered','Card','Mailing','75 Smith st','Boston','MA','02115'),(7,2,'2018-04-21','Placed','giftcard','Mailing','10 Prince st','Boston','MA','02651');

/\*!40000 ALTER TABLE `purchaseorder` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_get\_mailadrs\_for\_customer

BEFORE INSERT ON purchaseorder

FOR EACH ROW

BEGIN

IF NEW.Deliverat = 'Mailing'

THEN

SELECT street, city, state, zip

INTO @street, @city, @state, @zip

FROM customeraddress

WHERE Customer\_CustomerID = NEW.Customer\_CustomerID

AND AddressType = 'Mailing';

SET NEW.DeliveryStreet = @street, NEW.DeliveryCity = @city, NEW.DeliveryState = @state, NEW.DeliveryZIP = @zip;

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_cancel\_placed\_orders\_remove\_oi\_invoice

BEFORE DELETE ON purchaseorder

FOR EACH ROW

BEGIN

IF (OLD.OrderStatus = 'Shipped' OR OLD.OrderStatus = 'Delivered')

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Order cannot be cancelled when order is Shipped or Delivered';

ELSEIF (OLD.OrderStatus = 'Placed' AND OLD.PaymentMethod = 'giftcard')

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Order cannot be cancelled when placed with Gift card';

ELSEIF (OLD.OrderStatus = 'Placed' AND OLD.PaymentMethod = 'Card')

THEN

DELETE FROM orderitem WHERE orderitem.PurchaseOrder\_PONumber = OLD.PONumber;

DELETE FROM invoice WHERE invoice.PurchaseOrder\_PONumber = OLD.PONumber;

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `rating`

--

DROP TABLE IF EXISTS `rating`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `rating` (

`ID` int(11) NOT NULL AUTO\_INCREMENT,

`product\_ProductID` int(5) unsigned NOT NULL,

`Review` varchar(45) DEFAULT NULL,

`Rating` tinyint(1) DEFAULT NULL,

PRIMARY KEY (`ID`,`product\_ProductID`),

KEY `fk\_Rating\_product1\_idx` (`product\_ProductID`),

CONSTRAINT `fk\_Rating\_product1` FOREIGN KEY (`product\_ProductID`) REFERENCES `product` (`ProductID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=6 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `rating`

--

LOCK TABLES `rating` WRITE;

/\*!40000 ALTER TABLE `rating` DISABLE KEYS \*/;

INSERT INTO `rating` VALUES (1,1,'Best',5),(2,2,'Average product',3),(3,1,'Bad',1),(4,2,'Bad',1),(5,1,'Awesome',4);

/\*!40000 ALTER TABLE `rating` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `shipment`

--

DROP TABLE IF EXISTS `shipment`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `shipment` (

`ShipmentID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`Warehouse\_WarehouseID` int(10) unsigned NOT NULL,

`PurchaseOrder\_PONumber` int(10) unsigned NOT NULL,

`PurchaseOrder\_Customer\_CustomerID` int(10) unsigned NOT NULL,

`DeliveryProvider\_ProviderID` int(10) unsigned NOT NULL,

`PreparedBy` varchar(20) NOT NULL,

`Weight` float NOT NULL,

`Preparedon` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

PRIMARY KEY (`ShipmentID`,`Warehouse\_WarehouseID`,`PurchaseOrder\_PONumber`,`PurchaseOrder\_Customer\_CustomerID`),

KEY `fk\_Shipment\_Warehouse1\_idx` (`Warehouse\_WarehouseID`),

KEY `fk\_Shipment\_PurchaseOrder1\_idx` (`PurchaseOrder\_PONumber`,`PurchaseOrder\_Customer\_CustomerID`),

KEY `fk\_Shipment\_DeliveryProvider1\_idx` (`DeliveryProvider\_ProviderID`),

CONSTRAINT `fk\_Shipment\_DeliveryProvider1` FOREIGN KEY (`DeliveryProvider\_ProviderID`) REFERENCES `deliveryprovider` (`ProviderID`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `fk\_Shipment\_PurchaseOrder1` FOREIGN KEY (`PurchaseOrder\_PONumber`, `PurchaseOrder\_Customer\_CustomerID`) REFERENCES `purchaseorder` (`PONumber`, `Customer\_CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `fk\_Shipment\_Warehouse1` FOREIGN KEY (`Warehouse\_WarehouseID`) REFERENCES `warehouse` (`WarehouseID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=7 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `shipment`

--

LOCK TABLES `shipment` WRITE;

/\*!40000 ALTER TABLE `shipment` DISABLE KEYS \*/;

INSERT INTO `shipment` VALUES (1,1,1,1,1,'whouse1@localhost',2.5,'2018-04-16 18:36:44'),(2,1,2,1,1,'whouse1@localhost',1.4,'2018-04-16 23:30:16'),(3,1,3,1,1,'whouse1@localhost',3.9,'2018-04-18 00:02:01'),(4,1,4,1,2,'whouse1@localhost',6.3,'2018-04-21 16:58:40'),(5,1,5,1,1,'whouse1@localhost',4.2,'2018-04-21 17:12:43'),(6,1,6,1,2,'whouse1@localhost',1.9,'2018-04-21 17:19:03');

/\*!40000 ALTER TABLE `shipment` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_validate\_shipment\_weight

BEFORE INSERT ON shipment

FOR EACH ROW

BEGIN

IF NEW.weight = 0

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Shipment weight cannot be 0';

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- 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` (

`SupplierID` int(5) NOT NULL AUTO\_INCREMENT,

`SupplierName` varchar(45) NOT NULL,

`SupplierStreet` varchar(45) NOT NULL,

`SupplierCity` varchar(25) NOT NULL,

`SupplierState` varchar(45) NOT NULL,

`SupplierZIP` varchar(10) NOT NULL,

`SupplierContactNo` varchar(10) NOT NULL,

`SupplierEmail` varchar(45) NOT NULL,

PRIMARY KEY (`SupplierID`)

) ENGINE=InnoDB AUTO\_INCREMENT=3 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,'Best buy','huntington ave','boston','MA','02115','1234567890','best@gmail.com'),(2,'Wallmart','south ave','boston','MA','02120','9876543210','wall@gmail.com');

/\*!40000 ALTER TABLE `supplier` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Table structure for table `tracking`

--

DROP TABLE IF EXISTS `tracking`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `tracking` (

`TrackingID` int(16) unsigned NOT NULL AUTO\_INCREMENT,

`DeliveryProvider\_ProviderID` int(10) unsigned NOT NULL,

`DeliveryProvider\_ProviderID1` int(10) unsigned NOT NULL,

`Shipment\_ShipmentID` int(10) unsigned NOT NULL,

`Shipment\_Warehouse\_WarehouseID` int(10) unsigned NOT NULL,

`Shipment\_PurchaseOrder\_PONumber` int(10) unsigned NOT NULL,

`Shipment\_PurchaseOrder\_Customer\_CustomerID` int(10) unsigned NOT NULL,

PRIMARY KEY (`TrackingID`,`DeliveryProvider\_ProviderID`,`DeliveryProvider\_ProviderID1`),

KEY `fk\_TrackingData\_DeliveryProvider1\_idx` (`DeliveryProvider\_ProviderID1`),

KEY `fk\_TrackingData\_Shipment1\_idx` (`Shipment\_ShipmentID`,`Shipment\_Warehouse\_WarehouseID`,`Shipment\_PurchaseOrder\_PONumber`,`Shipment\_PurchaseOrder\_Customer\_CustomerID`),

CONSTRAINT `fk\_TrackingData\_DeliveryProvider1` FOREIGN KEY (`DeliveryProvider\_ProviderID1`) REFERENCES `deliveryprovider` (`ProviderID`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `fk\_TrackingData\_Shipment1` FOREIGN KEY (`Shipment\_ShipmentID`, `Shipment\_Warehouse\_WarehouseID`, `Shipment\_PurchaseOrder\_PONumber`, `Shipment\_PurchaseOrder\_Customer\_CustomerID`) REFERENCES `shipment` (`ShipmentID`, `Warehouse\_WarehouseID`, `PurchaseOrder\_PONumber`, `PurchaseOrder\_Customer\_CustomerID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=8 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `tracking`

--

LOCK TABLES `tracking` WRITE;

/\*!40000 ALTER TABLE `tracking` DISABLE KEYS \*/;

INSERT INTO `tracking` VALUES (1,1,1,1,1,1,1),(3,1,1,2,1,2,1),(4,1,1,3,1,3,1),(5,2,2,4,1,4,1),(6,1,1,5,1,5,1),(7,2,2,6,1,6,1);

/\*!40000 ALTER TABLE `tracking` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_change\_order\_status

AFTER INSERT ON tracking

FOR EACH ROW

BEGIN

UPDATE purchaseorder

SET OrderStatus = 'Shipped'

WHERE PONumber = NEW.Shipment\_PurchaseOrder\_PONumber;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Table structure for table `trackingstatus`

--

DROP TABLE IF EXISTS `trackingstatus`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `trackingstatus` (

`TrackingStatusID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`Tracking\_TrackingID` int(16) unsigned NOT NULL,

`Tracking\_DeliveryProvider\_ProviderID` int(10) unsigned NOT NULL,

`Tracking\_DeliveryProvider\_ProviderID1` int(10) unsigned NOT NULL,

`OrderStateLocation` varchar(2) NOT NULL,

`OrderZIPLocation` varchar(10) NOT NULL,

`StatusDate` date NOT NULL,

`StatusTime` time NOT NULL,

PRIMARY KEY (`TrackingStatusID`,`Tracking\_TrackingID`,`Tracking\_DeliveryProvider\_ProviderID`,`Tracking\_DeliveryProvider\_ProviderID1`),

KEY `fk\_TrackingStatus\_TrackingData1\_idx` (`Tracking\_TrackingID`,`Tracking\_DeliveryProvider\_ProviderID`,`Tracking\_DeliveryProvider\_ProviderID1`),

CONSTRAINT `fk\_TrackingStatus\_TrackingData1` FOREIGN KEY (`Tracking\_TrackingID`, `Tracking\_DeliveryProvider\_ProviderID`, `Tracking\_DeliveryProvider\_ProviderID1`) REFERENCES `tracking` (`TrackingID`, `DeliveryProvider\_ProviderID`, `DeliveryProvider\_ProviderID1`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB AUTO\_INCREMENT=10 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `trackingstatus`

--

LOCK TABLES `trackingstatus` WRITE;

/\*!40000 ALTER TABLE `trackingstatus` DISABLE KEYS \*/;

INSERT INTO `trackingstatus` VALUES (1,1,1,1,'NJ','36521','2018-04-16','16:47:15'),(2,1,1,1,'MA','02115','2018-04-16','16:51:11'),(3,3,1,1,'CA','65241','2018-04-16','19:47:56'),(4,3,1,1,'MA','02120','2018-04-17','12:57:51'),(5,4,1,1,'MA','02120','2018-04-17','20:06:43'),(6,5,2,2,'CO','85412','2018-04-21','13:05:29'),(7,5,2,2,'MA','02120','2018-04-21','13:07:03'),(8,6,1,1,'MA','02115','2018-04-21','13:16:42'),(9,7,2,2,'MA','02115','2018-04-21','13:22:14');

/\*!40000 ALTER TABLE `trackingstatus` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

/\*!50003 CREATE\*/ /\*!50017 DEFINER=`root`@`localhost`\*/ /\*!50003 TRIGGER trg\_order\_delivered

AFTER INSERT ON trackingstatus

FOR EACH ROW

BEGIN

-- get trackingid from tracking status

SET @trackingid = NEW.Tracking\_TrackingID;

-- from the tracking id get PO number stored in tracking table

SELECT tracking.Shipment\_PurchaseOrder\_PONumber

INTO @shipment\_ponumber

FROM tracking

WHERE tracking.TrackingID = @trackingid;

-- get PO from trackingid

SELECT purchaseorder.PONumber,

purchaseorder.DeliveryState, purchaseorder.DeliveryZIP

INTO @ponumber, @deliverystate, @deliveryzip

FROM purchaseorder

WHERE purchaseorder.PONumber = @shipment\_ponumber;

-- SELECT purchaseorder.PONumber,

-- purchaseorder.DeliveryState, purchaseorder.DeliveryZIP

-- INTO @ponumber, @deliverystate, @deliveryzip

-- FROM purchaseorder

-- INNER JOIN tracking

-- ON purchaseorder.PONumber = @shipment\_ponumber;

-- check if state/zip of tracking status matches with order's state & zip

IF (NEW.OrderStateLocation = @deliverystate AND

NEW.OrderZIPLocation = @deliveryzip)

THEN

UPDATE purchaseorder

SET OrderStatus = 'Delivered'

WHERE PONumber = @ponumber;

END IF;

END \*/;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Temporary view structure for view `view\_all\_product\_rating`

--

DROP TABLE IF EXISTS `view\_all\_product\_rating`;

/\*!50001 DROP VIEW IF EXISTS `view\_all\_product\_rating`\*/;

SET @saved\_cs\_client = @@character\_set\_client;

SET character\_set\_client = utf8;

/\*!50001 CREATE VIEW `view\_all\_product\_rating` AS SELECT

1 AS `ProductID`,

1 AS `ProductName`,

1 AS `ProductPrice`,

1 AS `DiscountPercentage`,

1 AS `Average product rating`\*/;

SET character\_set\_client = @saved\_cs\_client;

--

-- Temporary view structure for view `view\_most\_frequently\_buyed\_products`

--

DROP TABLE IF EXISTS `view\_most\_frequently\_buyed\_products`;

/\*!50001 DROP VIEW IF EXISTS `view\_most\_frequently\_buyed\_products`\*/;

SET @saved\_cs\_client = @@character\_set\_client;

SET character\_set\_client = utf8;

/\*!50001 CREATE VIEW `view\_most\_frequently\_buyed\_products` AS SELECT

1 AS `ProductName`,

1 AS `No of times product was buyed`\*/;

SET character\_set\_client = @saved\_cs\_client;

--

-- Table structure for table `warehouse`

--

DROP TABLE IF EXISTS `warehouse`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `warehouse` (

`WarehouseID` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`WarehouseName` varchar(45) NOT NULL,

`WarehouseContactNo` varchar(10) NOT NULL,

`WarehouseEmail` varchar(45) NOT NULL,

`WarehouseStreet` varchar(45) NOT NULL,

`WarehouseCity` varchar(25) NOT NULL,

`WarehouseState` varchar(45) NOT NULL,

`WarehouseZIP` varchar(10) NOT NULL,

PRIMARY KEY (`WarehouseID`)

) ENGINE=InnoDB AUTO\_INCREMENT=2 DEFAULT CHARSET=utf8;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `warehouse`

--

LOCK TABLES `warehouse` WRITE;

/\*!40000 ALTER TABLE `warehouse` DISABLE KEYS \*/;

INSERT INTO `warehouse` VALUES (1,'amazon\'s warehouse','1234567890','warehouse@gmail.com','columbus ave','Boston','MA','02115');

/\*!40000 ALTER TABLE `warehouse` ENABLE KEYS \*/;

UNLOCK TABLES;

--

-- Dumping events for database 'ezeebizdb'

--

--

-- Dumping routines for database 'ezeebizdb'

--

/\*!50003 DROP PROCEDURE IF EXISTS `check\_qty` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `check\_qty`(in orderedqty int, in Purchasesorder\_PONumber int)

BEGIN

SELECT AvailProductQty INTO @availprodqty FROM product WHERE ProductID = Purchasesorder\_PONumber;

IF orderedqty > @availprodqty

THEN

SIGNAL SQLSTATE VALUE '45000'

SET MESSAGE\_TEXT = 'Ordered Quantity can not be greater than available product quantity';

END IF;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `create\_orderitem` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `create\_orderitem`(in Purchasesorder\_PONumber int, in Purchaseorder\_Customer\_CustomerID int,

in Product\_ProductID int, in orderedqty int)

BEGIN

-- SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

-- START TRANSACTION;

CALL check\_qty(orderedqty,Purchasesorder\_PONumber); -- if orderedqty > available product qty

INSERT INTO orderitem

(PurchaseOrder\_PONumber, PurchaseOrder\_Customer\_CustomerID,

Product\_ProductID, OrderedQty)

VALUES

(PurchaseOrder\_PONumber, PurchaseOrder\_Customer\_CustomerID,

Product\_ProductID, OrderedQty);

-- COMMIT;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `create\_shipment` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `create\_shipment`(IN warehouseid INT, IN ponumber INT,

IN deliveryproviderid INT, IN currentuser VARCHAR(60), IN weight FLOAT)

BEGIN

-- get the customerid from PO number

SELECT customer\_customerid

INTO @customerid

FROM purchaseorder

WHERE purchaseorder.PONumber = ponumber;

-- insert the data into shipment table

INSERT INTO shipment

(shipment.Warehouse\_WarehouseID, shipment.PurchaseOrder\_PONumber,

shipment.PurchaseOrder\_Customer\_CustomerID, shipment.DeliveryProvider\_ProviderID,

shipment.PreparedBy,shipment.Preparedon,shipment.Weight)

VALUES

(warehouseid, ponumber, @customerid, deliveryproviderid,

currentuser, current\_timestamp(), weight);

COMMIT;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `create\_tracking` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `create\_tracking`(IN delieryproviderid INT, IN shipmentid INT)

BEGIN

-- get warehouseid, ponumber & customerid from ShipmentID

SELECT shipment.Warehouse\_WarehouseID, shipment.PurchaseOrder\_PONumber,

shipment.PurchaseOrder\_Customer\_CustomerID

INTO @warehouseid, @ponumber, @customerid

FROM shipment

WHERE shipment.ShipmentID = shipmentid;

INSERT INTO tracking

(tracking.DeliveryProvider\_ProviderID, tracking.DeliveryProvider\_ProviderID1,

tracking.Shipment\_ShipmentID, tracking.Shipment\_Warehouse\_WarehouseID,

tracking.Shipment\_PurchaseOrder\_PONumber,

tracking.Shipment\_PurchaseOrder\_Customer\_CustomerID)

VALUES

(delieryproviderid, delieryproviderid, shipmentid, @warehouseid,

@ponumber, @customerid);

COMMIT;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `create\_tracking\_status` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `create\_tracking\_status`(IN trackingid INT, IN orderstatelocation VARCHAR(2), IN orderziplocation VARCHAR(10))

BEGIN

-- get deliveryproviderID from trackingid

SELECT Deliveryprovider\_providerID INTO @deliveryproviderid

FROM tracking WHERE tracking.TrackingID = trackingid;

INSERT INTO trackingstatus

(Tracking\_TrackingID, Tracking\_DeliveryProvider\_ProviderID,

Tracking\_DeliveryProvider\_ProviderID1, OrderStateLocation, OrderZIPLocation,

StatusDate, StatusTime)

VALUES

(trackingid, @deliveryproviderid, @deliveryproviderid,

orderstatelocation, orderziplocation, current\_date(), current\_time());

COMMIT;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `get\_all\_orders` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `get\_all\_orders`(IN customerid INT)

BEGIN

SET @cid:= customerid;

SELECT PONumber, OrderPlacedOn, OrderStatus, PaymentMethod,

Shippingspeed, TotalAmount

FROM purchaseorder

INNER JOIN invoice

ON PONumber = invoice.PurchaseOrder\_PONumber

WHERE purchaseorder.Customer\_CustomerID = @cid;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `get\_giftcard\_balance` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `get\_giftcard\_balance`(IN customerid INT)

BEGIN

SET @cid:= customerid;

SELECT SUM(Amount) AS 'Giftcard Balance' FROM giftcard

WHERE Customer\_CustomerID = @cid AND

expirydate >= current\_date();

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `get\_order\_location` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `get\_order\_location`(IN ponumber INT)

BEGIN

SELECT deliveryprovider.ProviderName AS 'Delivered by',

trackingstatus.TrackingStatusID AS 'Tracking Status number',

trackingstatus.OrderStateLocation AS 'Order State Location',

trackingstatus.OrderZIPLocation AS 'Order ZIP location',

trackingstatus.StatusDate 'Date',

trackingstatus.StatusTime 'Time'

FROM trackingstatus

INNER JOIN tracking

ON trackingstatus.Tracking\_TrackingID = tracking.TrackingID

INNER JOIN deliveryprovider

ON tracking.DeliveryProvider\_ProviderID = deliveryprovider.ProviderID

INNER JOIN shipment

ON tracking.Shipment\_ShipmentID = shipment.ShipmentID

INNER JOIN purchaseorder

ON shipment.PurchaseOrder\_PONumber = purchaseorder.PONumber

WHERE purchaseorder.PONumber = ponumber;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `get\_productid` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `get\_productid`(IN PONumber INT, IN OrderItemID INT,

OUT productid INT)

BEGIN

SELECT product\_productID

INTO productid

FROM orderitem

WHERE orderitem.PurchaseOrder\_PONumber = PONumber AND

orderitem.OrderItemID = OrderItemID;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `get\_total\_business\_on\_days` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `get\_total\_business\_on\_days`(IN supplierid INT, IN startdate varchar(10), IN enddate varchar(10))

BEGIN

SELECT sum(invoice.TotalAmount) AS 'Total Earnings'

FROM invoice

WHERE invoice.PurchaseOrder\_PONumber IN

(

SELECT purchaseorder.PONumber

FROM purchaseorder

WHERE purchaseorder.OrderPlacedOn >= startdate

AND purchaseorder.OrderPlacedOn <= enddate

AND purchaseorder.PONumber IN

(SELECT orderitem.PurchaseOrder\_PONumber

FROM orderitem

where orderitem.Product\_ProductID IN

(SELECT product.ProductID

FROM product

WHERE product.Supplier\_SupplierID = supplierid)));

-- GROUP BY orderitem.PurchaseOrder\_PONumber))

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

/\*!50003 DROP PROCEDURE IF EXISTS `total\_products\_sold\_for\_current\_month` \*/;

/\*!50003 SET @saved\_cs\_client = @@character\_set\_client \*/ ;

/\*!50003 SET @saved\_cs\_results = @@character\_set\_results \*/ ;

/\*!50003 SET @saved\_col\_connection = @@collation\_connection \*/ ;

/\*!50003 SET character\_set\_client = utf8 \*/ ;

/\*!50003 SET character\_set\_results = utf8 \*/ ;

/\*!50003 SET collation\_connection = utf8\_general\_ci \*/ ;

/\*!50003 SET @saved\_sql\_mode = @@sql\_mode \*/ ;

/\*!50003 SET sql\_mode = '' \*/ ;

DELIMITER ;;

CREATE DEFINER=`root`@`localhost` PROCEDURE `total\_products\_sold\_for\_current\_month`(IN supplierid INT)

BEGIN

-- find the first day and last day of month as of today

SELECT DATE\_ADD(DATE\_ADD(LAST\_DAY(NOW()),INTERVAL 1 DAY),

INTERVAL - 1 MONTH) INTO @firstday;

SELECT LAST\_DAY(NOW()) INTO @lastday;

SELECT product.ProductID, product.ProductName, product.ProductPrice,

@firstday AS 'Start of Month',

@lastday AS 'End of Month',

SUM(orderitem.OrderedQty) AS 'Total products sold',

product.AvailProductQty AS 'Available product quantity'

FROM supplier

INNER JOIN product

ON supplier.SupplierID = product.Supplier\_SupplierID

INNER JOIN orderitem

ON product.ProductID = orderitem.Product\_ProductID

INNER JOIN purchaseorder

ON orderitem.PurchaseOrder\_PONumber = purchaseorder.PONumber

WHERE supplier.SupplierID = supplierid AND

purchaseorder.OrderPlacedOn BETWEEN @firstday AND @lastday

GROUP BY product.ProductID;

END ;;

DELIMITER ;

/\*!50003 SET sql\_mode = @saved\_sql\_mode \*/ ;

/\*!50003 SET character\_set\_client = @saved\_cs\_client \*/ ;

/\*!50003 SET character\_set\_results = @saved\_cs\_results \*/ ;

/\*!50003 SET collation\_connection = @saved\_col\_connection \*/ ;

--

-- Final view structure for view `view\_all\_product\_rating`

--

/\*!50001 DROP VIEW IF EXISTS `view\_all\_product\_rating`\*/;

/\*!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 `view\_all\_product\_rating` AS select `product`.`ProductID` AS `ProductID`,`product`.`ProductName` AS `ProductName`,`product`.`ProductPrice` AS `ProductPrice`,`productdiscount`.`DiscountPercentage` AS `DiscountPercentage`,avg(`rating`.`Rating`) AS `Average product rating` from ((`product` left join `productdiscount` on((`product`.`ProductID` = `productdiscount`.`Product\_ProductID`))) left join `rating` on((`productdiscount`.`Product\_ProductID` = `rating`.`product\_ProductID`))) group by `product`.`ProductID` \*/;

/\*!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 `view\_most\_frequently\_buyed\_products`

--

/\*!50001 DROP VIEW IF EXISTS `view\_most\_frequently\_buyed\_products`\*/;

/\*!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 `view\_most\_frequently\_buyed\_products` AS select `product`.`ProductName` AS `ProductName`,count(`orderitem`.`Product\_ProductID`) AS `No of times product was buyed` from ((`purchaseorder` join `orderitem` on((`purchaseorder`.`PONumber` = `orderitem`.`Product\_ProductID`))) join `product` on((`orderitem`.`Product\_ProductID` = `product`.`ProductID`))) group by `orderitem`.`Product\_ProductID` \*/;

/\*!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 2018-04-22 20:00:12