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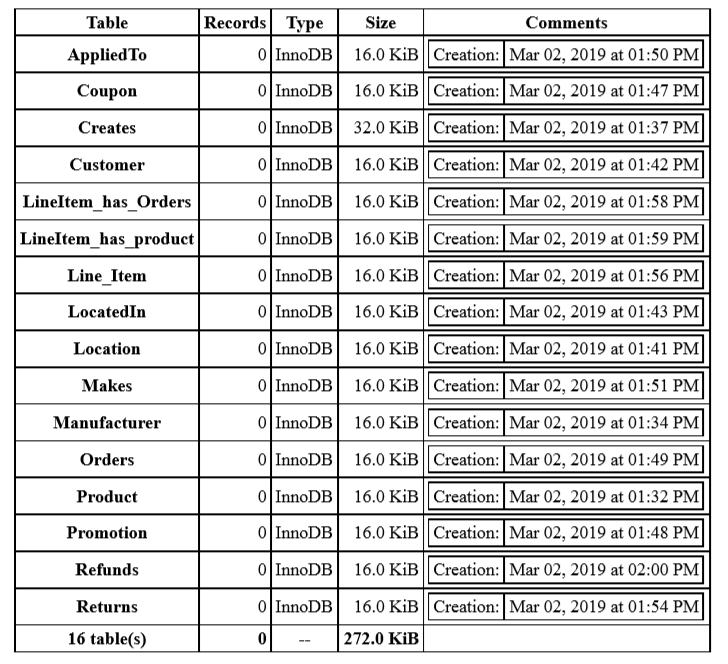
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**CS 4750: DB Project Milestone 2:**

1. Database Tables
   1. Strong Entity Sets
      1. Coupon(CouponID, CoupCode, CoupExpDate, CoupDateSent)
      2. Customer(CusID, CustEmail, CustFName, CustLName)
      3. Location(LocationID, Region, State, Zip, Address, City)
      4. Manufacturer(ManufacturerID, ManuName)
      5. Orders(OrderID, ShippingCost, TotalTax)
      6. Product(ProdID, ProdCost, ProdType, ProdName, ProdPrice)
      7. Promotion(PromotionID, Detail)
   2. Weak Entity Sets
      1. Line\_Item(LineItemID, ProdID, PercentDiscount, LineItemQty, CashDiscount, CashFlag)
      2. Returns(ReturnID, ProdID, ReturnDate, ReturnQty)
   3. Relations
      1. AppliedTo(OrderID, CouponID)
      2. Creates(ProdID, ManufacturerID)
      3. LineItem\_has\_Orders(LineItemID, ProdID, OrderID)
      4. LineItem\_has\_product(LineItemID, ProdID)
      5. LocatedIn(CustID, LocationID)
      6. Makes(OrderID, CustID)
      7. Refunds(ReturnID, ProdID, RefundAmt, CustID)
2. Database Schema on phpMyAdmin:

SQL CREATE Statements for our tables Listed Above

-- phpMyAdmin SQL Dump

-- version 3.2.0

-- http://www.phpmyadmin.net

--

-- Host: mysql.cs.virginia.edu:3306

-- Generation Time: Mar 03, 2019 at 01:09 AM

-- Server version: 5.5.60

-- PHP Version: 5.4.16

SET SQL\_MODE="NO\_AUTO\_VALUE\_ON\_ZERO";

--

-- Database: `ja7ad\_project`

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-- --------------------------------------------------------

--

-- Table structure for table `AppliedTo`

--

CREATE TABLE IF NOT EXISTS `AppliedTo` (

`OrderID` int(10) unsigned NOT NULL,

`CouponID` int(10) unsigned NOT NULL,

PRIMARY KEY (`OrderID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `AppliedTo`

--

-- --------------------------------------------------------

--

-- Table structure for table `Coupon`

--

CREATE TABLE IF NOT EXISTS `Coupon` (

`CouponID` int(10) unsigned NOT NULL,

`CoupCode` int(11) NOT NULL,

`CoupExpDate` date NOT NULL,

`CoupDateSent` date NOT NULL,

PRIMARY KEY (`CouponID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Coupon`

--

-- --------------------------------------------------------

--

-- Table structure for table `Creates`

--

CREATE TABLE IF NOT EXISTS `Creates` (

`ProdID` int(10) unsigned NOT NULL,

`ManufacturerID` int(10) unsigned NOT NULL,

PRIMARY KEY (`ProdID`),

KEY `ManufacturerID` (`ManufacturerID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Creates`

--

-- --------------------------------------------------------

--

-- Table structure for table `Customer`

--

CREATE TABLE IF NOT EXISTS `Customer` (

`CustID` int(10) unsigned NOT NULL,

`CustEmail` varchar(120) NOT NULL,

`CustFName` varchar(120) NOT NULL,

`CustLName` varchar(120) NOT NULL,

PRIMARY KEY (`CustID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Customer`

--

-- --------------------------------------------------------

--

-- Table structure for table `LineItem\_has\_Orders`

--

CREATE TABLE IF NOT EXISTS `LineItem\_has\_Orders` (

`LineItemID` int(10) unsigned NOT NULL,

`ProdID` int(10) unsigned NOT NULL,

`OrderID` int(10) unsigned NOT NULL,

PRIMARY KEY (`LineItemID`,`ProdID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `LineItem\_has\_Orders`

--

-- --------------------------------------------------------

--

-- Table structure for table `LineItem\_has\_product`

--

CREATE TABLE IF NOT EXISTS `LineItem\_has\_product` (

`LineItemID` int(10) unsigned NOT NULL,

`ProdID` int(10) unsigned NOT NULL,

PRIMARY KEY (`LineItemID`,`ProdID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `LineItem\_has\_product`

--

-- --------------------------------------------------------

--

-- Table structure for table `Line\_Item`

--

CREATE TABLE IF NOT EXISTS `Line\_Item` (

`LineItemID` int(10) unsigned NOT NULL,

`ProdID` int(10) unsigned NOT NULL,

`PercentDiscount` double NOT NULL,

`LineItemQty` int(10) unsigned NOT NULL,

`CashDiscount` double NOT NULL,

`CashFlag` tinyint(1) NOT NULL,

PRIMARY KEY (`LineItemID`,`ProdID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Line\_Item`

--

-- --------------------------------------------------------

--

-- Table structure for table `LocatedIn`

--

CREATE TABLE IF NOT EXISTS `LocatedIn` (

`CustID` int(10) unsigned NOT NULL,

`LocationID` int(10) unsigned NOT NULL,

PRIMARY KEY (`CustID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `LocatedIn`

--

-- --------------------------------------------------------

--

-- Table structure for table `Location`

--

CREATE TABLE IF NOT EXISTS `Location` (

`LocationID` int(10) unsigned NOT NULL,

`Region` varchar(120) NOT NULL,

`State` varchar(120) NOT NULL,

`Zip` int(10) unsigned NOT NULL,

`Address` varchar(120) NOT NULL,

`City` varchar(120) NOT NULL,

PRIMARY KEY (`LocationID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Location`

--

-- --------------------------------------------------------

--

-- Table structure for table `Makes`

--

CREATE TABLE IF NOT EXISTS `Makes` (

`OrderID` int(10) unsigned NOT NULL,

`CustID` int(10) unsigned NOT NULL,

PRIMARY KEY (`OrderID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Makes`

--

-- --------------------------------------------------------

--

-- Table structure for table `Manufacturer`

--

CREATE TABLE IF NOT EXISTS `Manufacturer` (

`ManufacturerID` int(10) unsigned NOT NULL,

`ManuName` varchar(120) NOT NULL,

PRIMARY KEY (`ManufacturerID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Manufacturer`

--

-- --------------------------------------------------------

--

-- Table structure for table `Orders`

--

CREATE TABLE IF NOT EXISTS `Orders` (

`OrderID` int(10) unsigned NOT NULL,

`ShippingCost` decimal(10,0) NOT NULL,

`TotalTax` decimal(10,0) NOT NULL,

PRIMARY KEY (`OrderID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Orders`

--

-- --------------------------------------------------------

--

-- Table structure for table `Product`

--

CREATE TABLE IF NOT EXISTS `Product` (

`ProdID` int(10) unsigned NOT NULL,

`ProdCost` double NOT NULL,

`ProdType` varchar(120) NOT NULL,

`ProdName` varchar(120) NOT NULL,

`ProdPrice` double NOT NULL,

PRIMARY KEY (`ProdID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Product`

--

-- --------------------------------------------------------

--

-- Table structure for table `Promotion`

--

CREATE TABLE IF NOT EXISTS `Promotion` (

`PromotionID` int(10) unsigned NOT NULL,

`Detail` varchar(240) NOT NULL,

PRIMARY KEY (`PromotionID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Promotion`

--

-- --------------------------------------------------------

--

-- Table structure for table `Refunds`

--

CREATE TABLE IF NOT EXISTS `Refunds` (

`ReturnID` int(10) unsigned NOT NULL,

`ProdID` int(10) unsigned NOT NULL,

`RefundAmt` double NOT NULL,

`CustID` int(10) unsigned NOT NULL,

PRIMARY KEY (`ReturnID`,`ProdID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Refunds`

--

-- --------------------------------------------------------

--

-- Table structure for table `Returns`

--

CREATE TABLE IF NOT EXISTS `Returns` (

`ReturnID` int(10) unsigned NOT NULL,

`ReturnDate` date NOT NULL,

`ReturnQty` int(10) unsigned NOT NULL,

`ProdID` int(10) unsigned NOT NULL,

PRIMARY KEY (`ReturnID`,`ProdID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Returns`

--

3. SQL INSERT Statements for our Database:

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----- Customers -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Customer` (

`CusID` ,

`CustEmail` ,

`CustFName` ,

`CustLName`

)

VALUES (

'0000000001', 'mb@gmail.com', 'Malcolm', 'Brogdon'

),

(

'0000000002', 'jh@gmail.com', 'Joe', 'Harris'

),

(

'0000000003', 'lp@gmail.com', 'London', 'Perrantes'

),

(

'0000000004', 'kg@gmail.com', 'Kyle', 'Guy'

),

(

'0000000005', 'tj@gmail.com', 'Ty', 'Jerome'

);

---------------------------------------------------------------

----- Manufacturer -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Manufacturer` (

`ManufacturerID`,

`ManuName`

)

VALUES (

'0000000001', 'TonyBennettCo'

),

(

'0000000002', 'GreggPopovichCo'

),

(

'0000000003', 'BigShaqCo'

);

---------------------------------------------------------------

----- Product -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Product` (

`ProdID`, `ProdCost`, `ProdType`, `ProdName`, `ProdPrice`

)

VALUES (

'0000000001', '15.00', 'Office Supply', 'A big ol stick', '40.00'

),

(

'0000000002', '18.00', 'Office Supply', 'A deluxe big ol stick', '48.00'

),

(

'0000000003', '14.00', 'Leisure', 'A nice rock', '32.00'

),

(

'0000000004', '16.00', 'Leisure', 'A high-quality boulder, '48.00'

),

(

'0000000005', '8.00', 'Athletics', 'A somewhat round ball', '22.00'

),

(

'0000000006', '11.00', 'Athletics', 'Bench-warmer jersey', '27.00'

);

---------------------------------------------------------------

----- Creates -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Creates` (

`ProdID`, `ManufacturerID`

)

VALUES (

'0000000001', '0000000001'

),

(

'0000000001', '0000000002'

),

(

'0000000002', '0000000003'

),

(

'0000000002', '0000000004'

),

(

'0000000003', '0000000005'

),

(

'0000000003', '0000000006'

);

---------------------------------------------------------------

----- Location -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Location` (

`LocationID`, `Region`, `State`, `Zip`, `Address`, `City`

)

VALUES (

'0000000001', 'Northeast', 'NY', '10567', '16 Harrison Drive', 'Cortlandt Manor'

),

(

'0000000002', 'Mid-Atlantic', 'VA', '22904', '117 Venable', 'Charlottesville'

);

---------------------------------------------------------------

----- Located In -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`LocatedIn` (

`CustID`, `LocationID`

)

VALUES (

'0000000001', '0000000002'

),

(

'0000000002', '0000000001'

),

(

'0000000003', '0000000001'

),

(

'0000000004', '0000000001'

),

(

'0000000005', '0000000001'

);

---------------------------------------------------------------

----- Coupon-----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Coupon` (

`CouponID` ,

`CoupCode` ,

`CoupExpDate` ,

`CoupDateSent`

)

VALUES (

'0000000001', '366', '2020-03-02', '2019-03-02'

), (

'0000000002', '513', '2020-03-02', '2019-03-02'

), (

'0000000003', '481', '2020-03-02', '2019-03-02'

), (

'0000000004', '437', '2020-03-02', '2019-03-02'

), (

'0000000005', '312', '2020-03-02', '2019-03-02'

);

---------------------------------------------------------------

----- Orders -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Orders` (

`OrderID` ,

`ShippingCost` ,

`TotalTax`

)

VALUES (

'1', '4.99', '2.99'

), (

'2', '0', '3.99'

), (

'3', '3.99', '4.99'

), (

'4', '19.99', '15.78'

), (

'5', '10.99', '9.99'

);

---------------------------------------------------------------

----- Promotions -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Promotion` (

`PromotionID` ,

`Detail`

)

VALUES (

'22', '20% off'

), (

'33', '10% off'

);

---------------------------------------------------------------

----- Line\_Item -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Line\_Item` (

`LineItemID` ,

`ProdID` ,

`PercentDiscount` ,

`LineItemQty` ,

`CashDiscount` ,

`CashFlag`

)

VALUES (

'20', '0000000001', '0', '10', '0', '0'

), (

'21', '0000000002', '0', '15', '0', '0'

);

---------------------------------------------------------------

----- Reurns -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Returns` (

`ReturnID` ,

`ReturnDate` ,

`ReturnQty` ,

`ProdID`

)

VALUES (

'1', '2019-03-02', '1', '5'

), (

'2', '2019-03-02', '1', '2'

);

---------------------------------------------------------------

----- Makes -----

---------------------------------------------------------------

INSERT INTO `ja7ad\_project`.`Makes` (

`OrderID` ,

`CustID`

)

VALUES (

'1', '0000000001'

), (

'3', '0000000002'

);