/\* script name: CREATEBIGPV11E-MySQL.SQL \*/

/\* purpose: Builds MYSQL tables for Big PVFC DB 11e \*/

/\* date: 7 Sep 2013 \*/

/\* updated: \*/

/\* \*/

/\* comment: These tables have the same names as the \*/

/\* Book PVFC database, so if you run these \*/

/\* script files after you have created the \*/

/\* Book database files, you will wipe out \*/

/\* the data in the earlier database \*/

/\* \*/

/\* comment: The Photo column in the PRODUCT table \*/

/\* is not included in the MYSQL version of \*/

/\* this database \*/

/\* \*/

/\* set up session settings \*/

/\* Drop all tables before creating tables \*/

DROP TABLE IF EXISTS Supplies\_T CASCADE ;

DROP TABLE IF EXISTS Uses\_T CASCADE ;

DROP TABLE IF EXISTS RawMaterial\_T CASCADE ;

DROP TABLE IF EXISTS Vendor\_T CASCADE ;

DROP TABLE IF EXISTS Shipped\_T CASCADE ;

DROP TABLE IF EXISTS PaymentType\_T CASCADE ;

DROP TABLE IF EXISTS Payment\_T CASCADE ;

DROP TABLE IF EXISTS OrderLine\_T CASCADE ;

DROP TABLE IF EXISTS Order\_T CASCADE ;

DROP TABLE IF EXISTS CustomerShipAddress\_T CASCADE ;

DROP TABLE IF EXISTS ProducedIn\_T CASCADE ;

DROP TABLE IF EXISTS Product\_T CASCADE ;

DROP TABLE IF EXISTS ProductLine\_T CASCADE ;

DROP TABLE IF EXISTS WorksIn\_T CASCADE ;

DROP TABLE IF EXISTS WorkCenter\_T CASCADE ;

DROP TABLE IF EXISTS EmployeeSkills\_T CASCADE ;

DROP TABLE IF EXISTS Employee\_T CASCADE ;

DROP TABLE IF EXISTS Skill\_T CASCADE ;

DROP TABLE IF EXISTS Salesperson\_T CASCADE ;

DROP TABLE IF EXISTS DoesBusinessIn\_T CASCADE ;

DROP TABLE IF EXISTS Territory\_T CASCADE ;

DROP TABLE IF EXISTS Customer\_T CASCADE ;

/\* Create all PVFC Big Database Tables (23) \*/

CREATE TABLE Customer\_T

 (CustomerID NUMERIC(11,0) NOT NULL,

 CustomerName VARCHAR(25) NOT NULL,

 CustomerAddress VARCHAR(30) ,

 CustomerCity VARCHAR(20) ,

 CustomerState CHAR(2) ,

 CustomerPostalCode VARCHAR(10) ,

CONSTRAINT Customer\_PK PRIMARY KEY (CustomerID));

CREATE TABLE Territory\_T

 (TerritoryID NUMERIC(11,0) NOT NULL,

 TerritoryName VARCHAR(50) ,

CONSTRAINT Territory\_PK PRIMARY KEY (TerritoryID));

CREATE TABLE DoesBusinessIn\_T

 (CustomerID NUMERIC(11,0) NOT NULL,

 TerritoryID NUMERIC(11,0) NOT NULL,

CONSTRAINT DoesBusinessIn\_PK PRIMARY KEY (CustomerID, TerritoryID),

CONSTRAINT DoesBusinessIn\_FK1 FOREIGN KEY (CustomerID)

 REFERENCES Customer\_T(CustomerID),

CONSTRAINT DoesBusinessIn\_FK2 FOREIGN KEY (TerritoryID)

 REFERENCES Territory\_T(TerritoryID));

CREATE TABLE Salesperson\_T

 (SalespersonID NUMERIC(11,0) NOT NULL,

 SalespersonName VARCHAR(25) , /\* Fixed \*/

 SalespersonTelephone VARCHAR(50) ,

 SalespersonFax VARCHAR(50) ,

 SalespersonAddress VARCHAR(30) ,

 SalespersonCity VARCHAR(20) ,

 SalespersonState CHAR(2) ,

 SalespersonZip VARCHAR(20) ,

 SalesTerritoryID NUMERIC(11,0) ,

CONSTRAINT Salesperson\_PK PRIMARY KEY (SalespersonID),

CONSTRAINT Salesperson\_FK1 FOREIGN KEY (SalesTerritoryID) /\*Fixed\*/

 REFERENCES Territory\_T(TerritoryID));

CREATE TABLE Skill\_T

 (SkillID VARCHAR(12) NOT NULL,

 SkillDescription VARCHAR(30) ,

CONSTRAINT Skill\_PK PRIMARY KEY (SkillID));

CREATE TABLE Employee\_T

 (EmployeeID VARCHAR(10) NOT NULL,

 EmployeeName VARCHAR(25) ,

 EmployeeAddress VARCHAR(30) ,

 EmployeeCity VARCHAR(20) ,

 EmployeeState CHAR(2) ,

 EmployeeZip VARCHAR(10) ,

 EmployeeBirthDate DATE ,

 EmployeeDateHired DATE ,

 EmployeeSupervisor VARCHAR(10) ,

CONSTRAINT Employee\_PK PRIMARY KEY (EmployeeID));

CREATE TABLE EmployeeSkills\_T

 (EmployeeID VARCHAR(10) NOT NULL,

 SkillID VARCHAR(12) NOT NULL,

 QualifyDate DATE ,

CONSTRAINT EmployeeSkills\_PK PRIMARY KEY (EmployeeID, SkillID),

CONSTRAINT EmployeeSkills\_FK1 FOREIGN KEY (EmployeeID)

 REFERENCES Employee\_T(EmployeeID),

CONSTRAINT EmployeeSkills\_FK2 FOREIGN KEY (SkillID)

 REFERENCES Skill\_T(SkillID));

CREATE TABLE WorkCenter\_T

 (WorkCenterID VARCHAR(12) NOT NULL,

 WorkCenterLocation VARCHAR(30) ,

CONSTRAINT WorkCenter\_PK PRIMARY KEY (WorkCenterID));

CREATE TABLE WorksIn\_T

 (EmployeeID VARCHAR(10) NOT NULL,

 WorkCenterID VARCHAR(12) NOT NULL,

CONSTRAINT WorksIn\_PK PRIMARY KEY (EmployeeID, WorkCenterID),

CONSTRAINT WorksIn\_FK1 FOREIGN KEY (EmployeeID)

 REFERENCES Employee\_T(EmployeeID),

CONSTRAINT WorksIn\_FK2 FOREIGN KEY (WorkCenterID)

 REFERENCES WorkCenter\_T(WorkCenterID));

CREATE TABLE ProductLine\_T

 (ProductLineID NUMERIC(11,0) NOT NULL,

 ProductLineName VARCHAR(50) ,

CONSTRAINT ProductLine\_PK PRIMARY KEY (ProductLineID));

CREATE TABLE Product\_T

 (ProductID NUMERIC(11,0) NOT NULL,

 ProductLineID NUMERIC(11,0) ,

 ProductDescription VARCHAR(50) ,

 ProductFinish VARCHAR(20) ,

 ProductStandardPrice DECIMAL(6,2) ,

 ProductOnHand INT ,

CONSTRAINT Product\_PK PRIMARY KEY (ProductID),

CONSTRAINT Product\_FK1 FOREIGN KEY (ProductLineID)

 REFERENCES ProductLine\_T(ProductLineID));

CREATE TABLE ProducedIn\_T

 (ProductID NUMERIC(11,0) NOT NULL,

 WorkCenterID VARCHAR(12) NOT NULL,

CONSTRAINT ProducedInPK PRIMARY KEY (ProductID, WorkCenterID),

CONSTRAINT ProducedInFK1 FOREIGN KEY (ProductID)

 REFERENCES Product\_T(ProductID),

CONSTRAINT ProducedInFK2 FOREIGN KEY (WorkCenterID)

 REFERENCES WorkCenter\_T(WorkCenterID));

CREATE TABLE CustomerShipAddress\_T

 (ShipAddressID NUMERIC(11,0) NOT NULL,

 CustomerID NUMERIC(11,0) NOT NULL,

 TerritoryID NUMERIC(11,0) NOT NULL,

 ShipAddress VARCHAR(30) ,

 ShipCity VARCHAR(20) ,

 ShipState CHAR(2) ,

 ShipZip VARCHAR(10) ,

 ShipDirections VARCHAR(100) ,

CONSTRAINT CSA\_PK PRIMARY KEY (ShipAddressID),

CONSTRAINT CSA\_FK1 FOREIGN KEY (CustomerID)

 REFERENCES Customer\_T(CustomerID),

CONSTRAINT CSA\_FK2 FOREIGN KEY (TerritoryID)

 REFERENCES Territory\_T(TerritoryID));

CREATE TABLE Order\_T

 (OrderID NUMERIC(11,0) NOT NULL,

 CustomerID NUMERIC(11,0) ,

 OrderDate TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP ,

 FulfillmentDate TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP ,

 SalespersonID NUMERIC(11,0) ,

 ShipAdrsID NUMERIC(11,0) ,

CONSTRAINT Order\_PK PRIMARY KEY (OrderID),

CONSTRAINT Order\_FK1 FOREIGN KEY (CustomerID)

 REFERENCES Customer\_T(CustomerID),

CONSTRAINT Order\_FK2 FOREIGN KEY (SalespersonID)

 REFERENCES Salesperson\_T(SalespersonID),

CONSTRAINT Order\_FK3 FOREIGN KEY (ShipAdrsID)

 REFERENCES CustomerShipAddress\_T(ShipAddressID));

CREATE TABLE OrderLine\_T

 (OrderLineID NUMERIC(11,0) NOT NULL,

 OrderID NUMERIC(11,0) NOT NULL,

 ProductID NUMERIC(11,0) NOT NULL,

 OrderedQuantity NUMERIC(11,0) ,

CONSTRAINT OrderLine\_PK PRIMARY KEY (OrderLineID),

CONSTRAINT OrderLine\_FK1 FOREIGN KEY (OrderID)

 REFERENCES Order\_T(OrderID),

CONSTRAINT OrderLine\_FK2 FOREIGN KEY (ProductID)

 REFERENCES Product\_T(ProductID));

CREATE TABLE PaymentType\_T

 (PaymentTypeID VARCHAR(50) NOT NULL,

 TypeDescription VARCHAR(50) NOT NULL,

 CONSTRAINT PaymentType\_PK PRIMARY KEY (PaymentTypeID));

CREATE TABLE Payment\_T

 (PaymentID NUMERIC(11,0) NOT NULL,

 OrderID NUMERIC(11,0) NOT NULL,

 PaymentTypeID VARCHAR(50) NOT NULL,

 PaymentDate DATE ,

 PaymentAmount DECIMAL(6,2) ,

 PaymentComment VARCHAR(255) ,

 CONSTRAINT Payment\_PK PRIMARY KEY (PaymentID),

 CONSTRAINT Payment\_FK1 FOREIGN KEY (OrderID)

 REFERENCES Order\_T(OrderID),

 CONSTRAINT Payment\_FK2 FOREIGN KEY (PaymentTypeID)

 REFERENCES PaymentType\_T(PaymentTypeID));

CREATE TABLE Shipped\_T

 (OrderLineId NUMERIC(11,0) NOT NULL,

 ShippedQuantity NUMERIC(11,0) NOT NULL,

 ShippedDate DATE,

 CONSTRAINT Shipped\_PK PRIMARY KEY (OrderLineId),

 CONSTRAINT Shipped\_FK1 FOREIGN KEY (OrderLineId)

 REFERENCES OrderLine\_T(OrderLineID));

CREATE TABLE Vendor\_T

 (VendorID NUMERIC(11,0) NOT NULL,

 VendorName VARCHAR(25) ,

 VendorAddress VARCHAR(30) ,

 VendorCity VARCHAR(20) ,

 VendorState CHAR(2) ,

 VendorZipcode VARCHAR(50) ,

 VendorPhone VARCHAR(12) ,

 VendorFax VARCHAR(12) ,

 VendorContact VARCHAR(50) ,

 VendorTaxIdNumber VARCHAR(50) ,

CONSTRAINT Vendor\_PK PRIMARY KEY (VendorID));

CREATE TABLE RawMaterial\_T

 (MaterialID VARCHAR(12) NOT NULL,

 MaterialName VARCHAR(30) ,

 Thickness VARCHAR(50) ,

 Width VARCHAR(50) ,

 MatSize VARCHAR(50) , /\*Fixed\*/

 Material VARCHAR(15) ,

 MaterialStandardPrice DECIMAL(6,2) ,

 UnitOfMeasure VARCHAR(15) ,

 MaterialType VARCHAR(50),

CONSTRAINT RawMaterial\_PK PRIMARY KEY (MaterialID)); /\*Fixed\*/

CREATE TABLE Uses\_T

 (MaterialID VARCHAR(12) NOT NULL,

 ProductID NUMERIC(11,0) NOT NULL,

 QuantityRequired NUMERIC(11,0) ,

CONSTRAINT Uses\_PK PRIMARY KEY (ProductID, MaterialID), /\*Fixed\*/

CONSTRAINT Uses\_FK1 FOREIGN KEY (ProductID)

 REFERENCES Product\_T(ProductID),

CONSTRAINT Uses\_FK2 FOREIGN KEY (MaterialID)

 REFERENCES RawMaterial\_T(MaterialID));

CREATE TABLE Supplies\_T

 (VendorID NUMERIC(11,0) NOT NULL,

 MaterialID VARCHAR(12) NOT NULL,

 SupplyUnitPrice DECIMAL(6,2) ,

CONSTRAINT Supplies\_PK PRIMARY KEY (VendorID, MaterialID),

CONSTRAINT Supplies\_FK1 FOREIGN KEY (MaterialID)

 REFERENCES RawMaterial\_T(MaterialID),

CONSTRAINT Supplies\_FK2 FOREIGN KEY (VendorID)

 REFERENCES Vendor\_T(VendorID));

/\* Run Oracle specific command to display table structure in DB

describe Supplies\_T;

describe Uses\_T;

describe RawMaterial\_T;

describe Vendor\_T;

describe PaymentType\_T;

describe Payment\_T;

describe Shipped\_T;

describe OrderLine\_T;

describe Order\_T;

describe CustomerShipAddress\_T;

describe ProducedIn\_T;

describe Product\_T;

describe ProductLine\_T;

describe WorksIn\_T;

describe WordkCenter\_T;

describe EmployeeSkills\_T;

describe Employee\_T;

describe Skill\_T;

describe Salesperson\_T;

describe DoesBusinessIn\_T;

describe Territory\_T;

describe Customer\_T;

\*/

/\* show constraints for each table \*/

COMMIT;