ColoCraft Trading Company SQL Script for Database Creation

Note: I eliminated the Food table, as it stored no unique information.

CREATE TABLE AddressT

(AID NUMERIC(11,0) NOT NULL,

ZID NUMERIC(11,0),

Street VARCHAR(60),

Number NUMERIC(6,0),

CONSTRAINT AddressPK PRIMARY KEY (AID),

CONSTRAINT AddressFK FOREIGN KEY (ZID) REFERENCES ZipT(ZID));

CREATE TABLE BeerT

(BeerPRID NUMERIC(11,0) NOT NULL,

PRID NUMERIC(11,0),

EID NUMERIC(11,0),

BBID NUMERIC(11,0),

PID NUMERIC(11,0),

AgingMethod VARCHAR(30),

AgingLengthDays NUMERIC(4,0),

StorageReq VARCHAR(30)

CONSTRAINT BeerPK PRIMARY KEY (BeerPRID),

CONSTRAINT BeerFK1 FOREIGN KEY (PRID) REFERENCES ProductT(PRID),

CONSTRAINT BeerFK2 FOREIGN KEY (EID) REFERENCES EmployeeT (EID),

CONSTRAINT BeerFK3 FOREIGN KEY (BBID) REFERENCES BeerBatchT (BBID),

CONSTRAINT BeerFK4 FOREIGN KEY (PID) REFERENCES PackagingT(PID));

CREATE TABLE BeerBatchT

(BBID NUMERIC(11,0) NOT NULL,

BrewerEID NUMERIC(11,0),

Name VARCHAR(30),

Volume NUMERIC(5,2),

Year NUMERIC(4,0),

Category VARCHAR(15),

ABV NUMERIC(4,2),

CONSTRAINT BeerBatchPK PRIMARY KEY (BBID),

CONSTRAINT BeerBatchFK FOREIGN KEY (BrewerEID) REFERENCES BrewerT (BrewerEID));

CREATE TABLE BeerHopsT

(BHID NUMERIC(11,0) NOT NULL,

BeerPRID NUMERIC(11,0),

Variety VARCHAR(30),

Quantity NUMERIC(3,0),

CONSTRAINT BeerHopsPK PRIMARY KEY (BHID),

CONSTRAINT BeerHopsFK FOREIGN KEY (BeerPRID) REFERENCES BeerT(BeerPRID));

CREATE TABLE BeerMaltT

(BMID NUMERIC(11,0) NOT NULL,

BeerPRID NUMERIC(11,0),

Variety VARCHAR(30),

Quantity NUMERIC(3,0),

CONSTRAINT BeerMaltPK PRIMARY KEY (BMID),

CONSTRAINT BeerMaltFK FOREIGN KEY (BeerPRID) REFERENCES BeerT(BeerPRID));

CREATE TABLE BrewerT

(BrewerEID NUMERIC(11,0) NOT NULL,

EID NUMERIC(11,0),

CertLevel VARCHAR(30),

CertDate DATE,

CONSTRAINT BrewerPK PRIMARY KEY (BrewerEID);

CONSTRAINT BrewerFK FOREIGN KEY (EID) REFERENCES EmployeeT(EID));

CREATE TABLE BrewerReCertOutcomeT

(BRCOID NUMERIC(11,0) NOT NULL,

BrewerEID NUMERIC(11,0),

ReCertOutcome VARCHAR(15),

ReCertDate DATE,

CONSTRAINT BrewerReCertOutcomePK PRIMARY KEY (BRCOID),

CONSTRAINT BrewerReCertOutcomeFK FOREIGN KEY (BrewerEID) REFERENCES BrewerT(BrewerEID));

CREATE TABLE BusinessT

(BusinessCID NUMERIC(11,0) NOT NULL,

CompanyName NUMERIC(11,0),

TIN NUMERIC(9,0),

ResaleLicenseNumber NUMERIC(9,0),

Discount NUMERIC(4,2),

CONSTRAINT BusinessFK FOREIGN KEY (BusinessCID) REFERENCES CustomerT(CID));

CREATE TABLE CottageT

(CotID NUMERIC(11,0) NOT NULL,

RoomNumber NUMERIC(2,0),

CONSTRAINT CottagePK PRIMARY KEY (CotID));

CREATE TABLE CottageReservationT

(CotResID NUMERIC(11,0) NOT NULL,

CotID NUMERIC(11,0),

IndividualCID NUMERIC(11,0),

DateofVisit DATE,

LengthofStayDays NUMERIC(2,0),

Charge NUMERIC(6,2),

CONSTRAINT CottageReservationPK PRIMARY KEY (CotResID),

CONSTRAINT CottageReservationFK1 FOREIGN KEY (CotID) REFERENCES CottageT(CotID),

CONSTRAINT CottageReservationFK2 FOREIGN KEY (IndividualCID) REFERENCES IndividualT(IndividualCID));

CREATE TABLE CustomerT

(CID NUMERIC(11,0) NOT NULL,

AID NUMERIC(11,0),

SAID NUMERIC(11,0),

Email VARCHAR(60),

Phone NUMERIC(11,0),

TastingRoomGuest TINYINT,

CottageGuest TINYINT,

EventGuest TINYINT,

CONSTRAINT CustomerPK PRIMARY KEY (CID),

CONSTRAINT CustomerFK1 FOREIGN KEY (AID) REFERENCES AddressT(AID),

CONSTRAINT CustomerFK2 FOREIGN KEY (SAID) REFERENCES ShippingAddressT(SAID));

CREATE TABLE CustomerPreferenceT

(CPID NUMERIC(11,0) NOT NULL,

CID NUMERIC(11,0),

Preference VARCHAR(30),

CONSTRAINT CustomerPreferencePK PRIMARY KEY (CPID),

CONSTRAINT CustomerPreferenceFK FOREIGN KEY (CID) REFERENCES CustomerT(CID));

CREATE TABLE DriverT

(DriverEID NUMERIC(11,0) NOT NULL,

EID NUMERIC(11,0),

CDLStatus VARCHAR(15),

CDLExpDate DATE,

CONSTRAINT DriverPK PRIMARY KEY (DriverEID),

CONSTRAINT DriverFK FOREIGN KEY (EID) REFERENCES EmployeeT(EID));

CREATE TABLE EmployeeT

(EID NUMERIC(11,0) NOT NULL,

AID NUMERIC(11,0),

SupID NUMERIC(11,0),

FirstName VARCHAR(30),

LastName VARCHAR(30),

Position VARCHAR(15),

SSN NUMERIC(9,0),

StartDate DATE,

StartPayRate NUMERIC(4,2),

CurrentPayRate NUMERIC(4,2),

Phone NUMERIC(11,0),

Email VARCHAR(60),

EmContact VARCHAR(60),

EmConPhone NUMERIC(11,0),

EmConEmail VARCHAR(60),

TIPSCert VARCHAR(15),

CONSTRAINT EmployeePK PRIMARY KEY (EID),

CONSTRAINT EmployeeFK1 FOREIGN KEY (AID) REFERENCES AddressT(AID),

CONSTRAINT EmployeeFK2 FOREIGN KEY (SupID) REFERENCES EmployeeT(EID));

CREATE TABLE EventT

(EvID NUMERIC(11,0) NOT NULL,

Name VARCHAR(60),

CONSTRAINT EventPK PRIMARY KEY (EvID));

CREATE TABLE EventReservationT

(EvResID NUMERIC(11,0) NOT NULL,

EvID NUMERIC(11,0),

IndividualCID NUMERIC(11,0),

DateofVisit DATE,

Charge NUMERIC(6,2),

CONSTRAINT EventReservationPK PRIMARY KEY (EvResID),

CONSTRAINT EventReservationFK1 FOREIGN KEY (EvID) REFERENCES EventT(EvID),

CONSTRAINT EventReservationFK2 FOREIGN KEY (IndividualCID) REFERENCES IndividualT(IndividualCID));

CREATE TABLE HopT

(HopPRID NUMERIC(11,0) NOT NULL,

PRID NUMERIC(11,0),

Variety VARCHAR(15),

Alpha NUMERIC(4,2),

Beta NUMERIC(4,2),

TotalOil NUMERIC(5,2),

HIS NUMERIC(5,2),

Myrcene NUMERIC(5,2),

CONSTRAINT HopPK PRIMARY KEY (HopPRID),

CONSTRAINT HopFK FOREIGN KEY (PRID) REFERENCES ProductT(PRID));

CREATE TABLE HopBeerBatchT

(HBBID NUMERIC(11,0) NOT NULL,

HopPRID NUMERIC(11,0),

BBID NUMERIC(11,0),

HopQuantity NUMERIC(5,2),

CONSTRAINT HopBeerBatchPK PRIMARY KEY (HBBID),

CONSTRAINT HopBeerBatchFK1 FOREIGN KEY (HopPRID) REFERENCES HopT(HopPRID),

CONSTRAINT HopBeerBatchFK2 FOREIGN KEY (BBID) REFERENCES BeerBatchT(BBID));

CREATE TABLE HopCropT

(HCID NUMERIC(11,0) NOT NULL,

EID NUMERIC(11,0),

HopPRID NUMERIC(11,0),

Location VARCHAR(30),

Owner VARCHAR(60),

Size NUMERIC(5,2),

Weight NUMERIC(5,2),

Moisture NUMERIC(4,2),

CONSTRAINT HopCropPK PRIMARY KEY (HCID),

CONSTRAINT HopCropFK1 FOREIGN KEY (EID) REFERENCES EmployeeT(EID),

CONSTRAINT HopCropFK2 FOREIGN KEY (HopPRID) REFERENCES HopT(HopPRID));

CREATE TABLE HopCropSupplierOrderT

(HCSOID NUMERIC(11,0) NOT NULL,

SID NUMERIC(11,0),

ShippingStatus VARCHAR(15),

Price NUMERIC(6,2),

Date DATE,

CONSTRAINT HopCropSupplierOrderPK PRIMARY KEY (HCSOID),

CONSTRAINT HopCropSupplierOrderFK FOREIGN KEY (SID) REFERENCES SupplierT(SID));

CREATE TABLE HopCropSupplierOrderLineT

(HCSOLID NUMERIC(11,0) NOT NULL,

HCSOID NUMERIC(11,0),

HCID NUMERIC(11,0),

Quantity NUMERIC(3,0),

CONSTRAINT HopCropSupplierOrderLinePK PRIMARY KEY (HCSOLID),

CONSTRAINT HopCropSupplierOrderLineFK1 FOREIGN KEY (HCSOID) REFERENCES HopCropSupplierOrderT(HCSOID),

CONSTRAINT HopCropSupplierOrderLineFK2 FOREIGN KEY (HCID) REFERENCES HopCropT(HCID));

CREATE TABLE IndividualT

(IndividualCID NUMERIC(11,0) NOT NULL,

CID NUMERIC(11,0),

FirstName VARCHAR(30),

LastName VARCHAR(30),

DOB DATE,

CONSTRAINT IndividualPK PRIMARY KEY (IndividualCID),

CONSTRAINT IndividualFK FOREIGN KEY (CID) REFERENCES CustomerT(CID));

CREATE TABLE InternT

(InternEID NUMERIC(11,0) NOT NULL,

EID NUMERIC(11,0),

InternshipReq VARCHAR(30),

GradDate DATE,

CONSTRAINT InternPK PRIMARY KEY (InternEID),

CONSTRAINT InternFK FOREIGN KEY (EID) REFERENCES EmployeeT(EID));

CREATE TABLE OrderT

(OID NUMERIC(11,0) NOT NULL,

CID NUMERIC(11,0),

ShippingStatus VARCHAR(15),

Price NUMERIC(6,2),

Date DATE,

CONSTRAINT OrderPK PRIMARY KEY (OID),

CONSTRAINT OrderFK FOREIGN KEY (CID) REFERENCES CustomerT(CID));

CREATE TABLE OrderLineT

(OLID NUMERIC(11,0) NOT NULL,

PRID NUMERIC(11,0),

OID NUMERIC(11,0),

Quantity NUMERIC(3,0),

CONSTRAINT OrderLinePK PRIMARY KEY (OLID),

CONSTRAINT OrderLineFK1 FOREIGN KEY (PRID) REFERENCES ProductT(PRID),

CONSTRAINT OrderLineFK2 FOREIGN KEY (OID) REFERENCES OrderT(OID));

CREATE TABLE PackageOrderT

(POID NUMERIC(11,0) NOT NULL,

PVID NUMERIC(11,0),

DateOrdered DATE,

DateReceived DATE,

CONSTRAINT PackageOrderPK PRIMARY KEY (POID),

CONSTRAINT PackageOrderFK FOREIGN KEY (PVID) REFERENCES PackagingVendorT(PVID));

CREATE TABLE PackageOrderLineT

(POLID NUMERIC(11,0) NOT NULL,

POID NUMERIC(11,0),

PID NUMERIC(11,0),

QtyOrdered NUMERIC(3,0),

QtyReceived NUMERIC(3,0),

UnitCost NUMERIC(3,2),

CONSTRAINT PackageOrderLinePK PRIMARY KEY (POLID),

CONSTRAINT PackageOrderLineFK1 FOREIGN KEY (POID) REFERENCES PackageOrderT(POID),

CONSTRAINT PackageOrderLineFK2 FOREIGN KEY (PID) REFERENCES PackagingT(PID));

CREATE TABLE PackagingT

(PID NUMERIC(11,0) NOT NULL,

Type VARCHAR(15),

Capacity NUMERIC(4,2),

Shape VARCHAR(15),

Color VARCHAR(15),

CONSTRAINT PackagingPK PRIMARY KEY (PID));

CREATE TABLE PackagingVendorT

(PVID NUMERIC(11,0) NOT NULL,

AID NUMERIC(11,0),

Name VARCHAR(60),

Phone NUMERIC(11,0),

PrincipalContact VARCHAR(60),

CONSTRAINT PackagingVendorPK PRIMARY KEY (PVID),

CONSTRAINT PackagingVendorFK FOREIGN KEY (AID) REFERENCES AddressT(AID));

CREATE TABLE PaymentT

(PAID NUMERIC(11,0) NOT NULL,

OID NUMERIC(11,0),

Type VARCHAR(15),

Date DATE,

Amount NUMERIC(5,2),

CONSTRAINT PaymentPK PRIMARY KEY (PAID),

CONSTRAINT PaymentFK FOREIGN KEY (OID) REFERENCES OrderT(OID));

CREATE TABLE ProductT

(PRID NUMERIC(11,0) NOT NULL,

Style VARCHAR(15),

Size NUMERIC(5,2),

Price NUMERIC(4,2),

Name VARCHAR(30),

Description VARCHAR(120),

SKU VARCHAR(12),

CONSTRAINT ProductPK PRIMARY KEY (PRID));

CREATE TABLE ShippingAddressT

(SAID NUMERIC(11,0) NOT NULL,

ZID NUMERIC(11,0),

Street VARCHAR(60),

Number NUMERIC(6,0),

CONSTRAINT ShippingAddressPK PRIMARY KEY (SAID),

CONSTRAINT ShippingAddressFK FOREIGN KEY (ZID) REFERENCES ZipT(ZID));

CREATE TABLE SupplierT

(SID NUMERIC(11,0) NOT NULL,

AID NUMERIC(11,0),

SAID NUMERIC(11,0),

Name VARCHAR(60),

Phone NUMERIC(11,0),

PrincipalContact VARCHAR(60),

CONSTRAINT SupplierPK PRIMARY KEY (SID),

CONSTRAINT SupplierFK1 FOREIGN KEY (AID) REFERENCES AddressT(AID),

CONSTRAINT SupplierFK2 FOREIGN KEY (SAID) REFERENCES ShippingAddressT(SAID));

CREATE TABLE SupplyOrderT

(SOID NUMERIC(11,0) NOT NULL,

SID NUMERIC(11,0),

DateOrdered DATE,

DateReceived DATE,

CONSTRAINT SupplyOrderPK PRIMARY KEY (SOID),

CONSTRAINT SupplyOrderFK FOREIGN KEY (SID) REFERENCES SupplierT(SID));

CREATE TABLE SupplyOrderLineT

(SOLID NUMERIC(11,0) NOT NULL,

SOID NUMERIC(11,0),

PRID NUMERIC(11,0),

Quantity NUMERIC(3,0),

CONSTRAINT SupplyOrderLinePK PRIMARY KEY (SOLID),

CONSTRAINT SupplyOrderLineFK1 FOREIGN KEY (SOID) REFERENCES SupplyOrderT(SOID),

CONSTRAINT SupplyOrderLineFK2 FOREIGN KEY (PRID) REFERENCES ProductT(PRID));

CREATE TABLE ZipT

(ZID NUMERIC(11,0) NOT NULL,

City VARCHAR(30),

State VARCHAR(2),

ZipCode NUMERIC(9,0),

CONSTRAINT ZipPK PRIMARY KEY (ZID));