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# IST 659 Data Admin Concepts and Database Management

# Bob’s local store digitalization

# Summary

Bob’s local store located in Springfield Illinois and has been operating since 2005. Currently Bob’s local store is following the bookkeeping process for running their business. As the business expands, they want to digitalize the process of keeping track of the procurements, orders, customers and inventory. In Phase 1 we will be defining the business in terms of entities and relationships by determining the business rules, providing a data glossary, identifying the questions we would like to answer, and demonstrating both a conceptual and logical modal of the future database.

# Stakeholders

The current stakeholders for the proposed system are the owner, the employees of the store, customers of the store.

# Business Rules

* Store is divided into departments
* Each department has Name, list of items in display, department supervisor
* Each Employee has Name, Address, phone number, email, a predefined role
* A Manager can have multiple supervisors working under him
* A supervisor can have multiple staff working under him
* Only the Manager can place a procurement order
* An inventory can only be ordered when the item quantity is less than 10
* Each Item has name, description, barcode, brand, quantity, price, unit
* Customer can have Name, phone number, email, address
* If an item requested by a customer is not found, then Manager can place a special order for that
* Procurement orders can only be ordered from existing Vendors
* Each Vendor has Name, CompanyName, phone number, email Address, Company Address
* Customers purchase items from the store
* When an item is purchased an order is generated
* An Order contains order details

# Glossary

**Customer:** A person who buys/bought items from the Bob’s local store

**Employee:** A person who is working in the Bob’s local store

**Supervisor:** An employee whose role is Supervisor

**Manager:** An employee whose role is Manager and who takes care of customer satisfaction.

**Department:** A section of the store where all items belonging to a particular group are placed for purchase.

**Purchase Order:** A purchase Order is placed by the customer when buying the items from the store

**Procurement Order:** A procurement order is placed by the Manger when the quantity of an item is very low

**Vendor:** A person or business who sells/lease items to the store

# Data Questions

* Which item is being ordered most?
* What department has most profits?
* Which items are taking long time to order?
* What is the average shelf cycle for items in the store?

# Conceptual Model

A screenshot of a computer screen

Description automatically generated

# Logical Model

A screen shot of a computer

Description automatically generated

# Physical Database Design

--drop procedures

IF OBJECT\_ID('dbo.AddNewOrder') IS NOT NULL

DROP PROCEDURE dbo.AddNewOrder

GO

IF OBJECT\_ID('dbo.UpdateOrder') IS NOT NULL

DROP PROCEDURE dbo.UpdateOrder

GO

IF OBJECT\_ID('dbo.SearchBarCode') IS NOT NULL

DROP PROCEDURE dbo.SearchBarCode

GO

IF OBJECT\_ID('dbo.SalesHistoryForDepartment') IS NOT NULL

DROP PROCEDURE dbo.SalesHistoryForDepartment

GO

IF OBJECT\_ID('dbo.GetItemAverageShelfLife') IS NOT NULL

DROP PROCEDURE dbo.GetItemAverageShelfLife

GO

IF OBJECT\_ID('dbo.GetProfitsByMonth') IS NOT NULL

DROP PROCEDURE dbo.GetProfitsByMonth

GO

--drop Types

IF TYPE\_ID(N'ItemsListType') IS NOT NULL

DROP TYPE dbo.ItemsListType

GO

--drop views

IF OBJECT\_ID('dbo.ItemsToProcureBasedOnOrders') IS NOT NULL

DROP VIEW dbo.ItemsToProcureBasedOnOrders

GO

IF OBJECT\_ID('dbo.ProfitPerItem') IS NOT NULL

DROP VIEW dbo.ProfitPerItem

GO

IF OBJECT\_ID('dbo.ProcurementStats') IS NOT NULL

DROP VIEW dbo.ProcurementStats

GO

IF OBJECT\_ID('dbo.CurrentSalesPerDepartment') IS NOT NULL

DROP VIEW dbo.CurrentSalesPerDepartment

GO

IF OBJECT\_ID('dbo.SalesBasedOnItems') IS NOT NULL

DROP VIEW dbo.SalesBasedOnItems

GO

--drop tables

IF OBJECT\_ID('dbo.prj\_Employee') IS NOT NULL

DROP TABLE dbo.prj\_Employee

IF OBJECT\_ID('dbo.prj\_Role') IS NOT NULL

DROP TABLE dbo.prj\_Role

IF OBJECT\_ID('prj\_OrderItemList') IS NOT NULL

DROP TABLE dbo.prj\_OrderItemList

IF OBJECT\_ID('prj\_ProcurementOrderList') IS NOT NULL

DROP TABLE dbo.prj\_ProcurementOrderList

IF OBJECT\_ID('dbo.prj\_Item') IS NOT NULL

DROP TABLE dbo.prj\_Item

IF OBJECT\_ID('dbo.prj\_Department') IS NOT NULL

DROP TABLE dbo.prj\_Department

IF OBJECT\_ID('dbo.prj\_ProcurementOrders') IS NOT NULL

DROP TABLE dbo.prj\_ProcurementOrders

IF OBJECT\_ID('dbo.prj\_Vendor') IS NOT NULL

DROP TABLE dbo.prj\_Vendor

IF OBJECT\_ID('prj\_Order') IS NOT NULL

DROP TABLE dbo.prj\_Order

IF OBJECT\_ID('dbo.prj\_PaymentMode') IS NOT NULL

DROP TABLE dbo.prj\_PaymentMode

IF OBJECT\_ID('dbo.prj\_OrderType') IS NOT NULL

DROP TABLE dbo.prj\_OrderType

IF OBJECT\_ID('dbo.prj\_Customer') IS NOT NULL

DROP TABLE dbo.prj\_Customer

CREATE TABLE [dbo].[prj\_Role](

RoleID INT IDENTITY(1,1) PRIMARY KEY,

Title VARCHAR(20) NOT NULL,

[Description] VARCHAR(50),

PayRate DECIMAL(5,2) NOT NULL,

CONSTRAINT U1\_prj\_Role UNIQUE (Title)

)

GO

CREATE TABLE [dbo].[prj\_Department](

DepartmentID INT IDENTITY(1,1) PRIMARY KEY,

[Name] VARCHAR(50) NOT NULL,

CONSTRAINT U1\_prj\_Department UNIQUE ([Name])

)

GO

CREATE TABLE [dbo].[prj\_Employee](

[EmployeeID] [int] IDENTITY(1,1) PRIMARY KEY,

FirstName VARCHAR(20),

LastName VARCHAR(20),

AddressLine1 VARCHAR(50),

AddressLine2 VARCHAR(50),

City VARCHAR(20),

[State] VARCHAR(10),

Zipcode VARCHAR(5),

Phone VARCHAR(12),

EmailAddress VARCHAR(50),

DepartmentID INT NOT NULL,

SuperVisorID INT,

RoleID INT,

CONSTRAINT U1\_prj\_Employee UNIQUE (FirstName, LastName),

CONSTRAINT U2\_prj\_Employee UNIQUE (Phone),

CONSTRAINT U3\_prj\_Employee UNIQUE (EmailAddress),

CONSTRAINT FK1\_prj\_Employee FOREIGN KEY (DepartmentID) REFERENCES prj\_Department(DepartmentID),

CONSTRAINT FK2\_prj\_Employee FOREIGN KEY (SupervisorID) REFERENCES prj\_Employee (EmployeeID),

CONSTRAINT FK3\_prj\_Employee FOREIGN KEY (RoleID) REFERENCES prj\_Role(RoleID)

)

GO

CREATE TABLE [dbo].[prj\_PaymentMode](

PaymentModeID INT IDENTITY(1,1) PRIMARY KEY,

[Name] VARCHAR(20) NOT NULL,

[Provider] VARCHAR(20),

[Description] VARCHAR(50),

CONSTRAINT U1\_prj\_PaymentMode UNIQUE ([Name], [Provider])

)

GO

CREATE TABLE [dbo].[prj\_OrderType](

OrderTypeID INT IDENTITY(1,1) PRIMARY KEY,

[Type] VARCHAR(20) NOT NULL,

[Description] VARCHAR(50),

CONSTRAINT U1\_prj\_OrderType UNIQUE ([Type])

)

GO

CREATE TABLE [dbo].[prj\_Customer](

CustomerID INT IDENTITY(1,1) PRIMARY KEY,

FirstName VARCHAR(20) NOT NULL,

LastName VARCHAR(20) NOT NULL,

AddressLine1 VARCHAR(50),

AddressLine2 VARCHAR(50),

City VARCHAR(20),

[State] VARCHAR(10),

Zipcode VARCHAR(5),

Phone VARCHAR(12) NOT NULL,

EmailAddress VARCHAR(50) NOT NULL,

CONSTRAINT U1\_prj\_Customer UNIQUE (FirstName, LastName),

CONSTRAINT U2\_prj\_Customer UNIQUE (Phone),

CONSTRAINT U3\_prj\_Customer UNIQUE (EmailAddress)

)

GO

CREATE TABLE [dbo].[prj\_Vendor](

VendorID INT IDENTITY(1,1) PRIMARY KEY,

FirstName VARCHAR(20) NOT NULL,

LastName VARCHAR(20) NOT NULL,

CompanyName VARCHAR(100) NOT NULL,

Phone VARCHAR(12) NOT NULL,

EmailAddress VARCHAR(50) NOT NULL,

CompanyAddressLine1 VARCHAR(50) NOT NULL,

CompanyAddressLine2 VARCHAR(50),

CompanyCity VARCHAR(20) NOT NULL,

CompanyState VARCHAR(10) NOT NULL,

CompanyZipcode VARCHAR(5) NOT NULL

)

GO

CREATE TABLE [dbo].[prj\_Item](

ItemID INT IDENTITY(1,1) PRIMARY KEY,

[Name] VARCHAR(50) NOT NULL,

Brand VARCHAR(100) NOT NULL,

[Description] VARCHAR(100),

Barcode VARCHAR(20) NOT NULL,

Quantity INT,

Price DECIMAL(5,2),

Cost DECIMAL(5,2),

DepartmentID INT NOT NULL,

CONSTRAINT U1\_prj\_Item UNIQUE (Barcode),

CONSTRAINT F1\_prj\_Item FOREIGN KEY (DepartmentID) REFERENCES prj\_Department(DepartmentID)

)

GO

CREATE TABLE [dbo].[prj\_ProcurementOrders](

OrderID INT IDENTITY(1,1) PRIMARY KEY,

OrderDate DateTime NOT NULL,

Price DECIMAL(5,2) NOT NULL,

VendorID INT NOT NULL,

OrderFullfilmentDate DateTime,

CONSTRAINT F1\_prj\_ProcurementOrders FOREIGN KEY (VendorID) REFERENCES prj\_Vendor(VendorID)

)

GO

CREATE TABLE [dbo].[prj\_ProcurementOrderList](

ProcurementOrderListID INT IDENTITY(1,1) PRIMARY KEY,

OrderID INT NOT NULL,

ItemID INT NOT NULL,

Quantity INT NOT NULL,

CONSTRAINT FK1\_prj\_ProcurementOrderlist FOREIGN KEY (OrderID) REFERENCES prj\_ProcurementOrders(OrderID),

CONSTRAINT FK2\_prj\_ProcurementOrderList FOREIGN KEY (ItemID) REFERENCES prj\_Item(ItemID)

)

GO

CREATE TABLE [dbo].[prj\_Order](

OrderID INT IDENTITY(1,1) PRIMARY KEY,

OrderNumber VARCHAR(20) NOT NULL,

OrderDate DateTime NOT NULL,

OrderStatus VARCHAR(10) NOT NULL,

PaymentAmount Decimal NOT NULL,

PaymentModeID INT NOT NULL,

OrderTypeID INT NOT NULL,

CustomerID INT,

CONSTRAINT U1\_prj\_Order UNIQUE (OrderNumber),

CONSTRAINT FK1\_prj\_Order FOREIGN KEY (PaymentModeID) REFERENCES prj\_PaymentMode(PaymentModeID),

CONSTRAINT FK2\_prj\_Order FOREIGN KEY (OrderTypeID) REFERENCES prj\_OrderType(OrderTypeID),

CONSTRAINT FK3\_prj\_Order FOREIGN KEY (CustomerID) REFERENCES prj\_Customer(CustomerID)

)

GO

CREATE TABLE [dbo].[prj\_OrderItemList](

OrderItemListID INT IDENTITY(1,1) PRIMARY KEY,

OrderID INT NOT NULL,

ItemID INT NOT NULL,

Quantity INT NOT NULL,

DiscountPercentage INT,

CONSTRAINT FK1\_prj\_OrderItemList FOREIGN KEY (OrderID) REFERENCES prj\_Order(OrderID),

CONSTRAINT FK2\_prj\_OrderItemList FOREIGN KEY (ItemID) REFERENCES prj\_Item(ItemID)

)

GO

--Data Insertion

INSERT INTO prj\_Role (Title, Description, PayRate) VALUES

('Store Manager', 'Supervises all the departments', 40),

('Assistant Manager', 'Helps Store Manager', 35),

('Inventory Manager', 'Takes care of Inventory', 30),

('Account Manager', 'Takes care of accounting', 30),

('Sales Executive', 'Supervises all the departments', 25),

('Cashier', '', 20),

('Customer Service Rep', '', 25),

('Helper', '', 15)

GO

INSERT INTO prj\_Department (Name) VALUES

('Sports'),

('Shoes'),

('Jewelery'),

('Tools'),

('Health'),

('Produce'),

('Baby'),

('Clothing'),

('Outdoors'),

('Books'),

('Electronics'),

('Toys'),

('Games'),

('Grocery'),

('Automotive'),

('Garden'),

('Beauty'),

('Kids')

GO

insert into prj\_Customer (firstname, lastname, addressline1, addressline2, city, state, zipcode, phone, emailaddress) values

('Callie', 'Gradly', '39 Shopko Lane', null, 'Milwaukee', 'WI', '53263', '414-189-0527', 'cgradly0@gov.uk'),

('Bobbie', 'McEntegart', '302 Chinook Lane', null, 'Staten Island', 'NY', '10310', '914-177-6428', 'bmcentegart1@ehow.com'),

('Adelaida', 'Heinig', '59341 Shasta Trail', null, 'Denver', 'CO', '80243', '303-504-6966', 'aheinig2@dropbox.com'),

('Reeta', 'Mityakov', '7061 Center Park', null, 'New York City', 'NY', '10060', '646-684-1403', 'rmityakov3@dropbox.com'),

('Clarence', 'Tuft', '7822 Mcbride Alley', null, 'Colorado Springs', 'CO', '80935', '719-297-9395', 'ctuft4@twitpic.com'),

('Harald', 'Buckle', '8 Village Green Avenue', null, 'Fresno', 'CA', '93786', '559-864-9339', 'hbuckle5@princeton.edu'),

('Sancho', 'Bethel', '68 Prentice Pass', null, 'Pittsburgh', 'PA', '15261', '412-243-1217', 'sbethel6@youtu.be'),

('Wrennie', 'Cloutt', '9 West Junction', null, 'Chula Vista', 'CA', '91913', '619-257-0552', 'wcloutt7@amazon.co.jp'),

('Hetty', 'Harrill', '7 Sommers Parkway', null, 'Richmond', 'VA', '23277', '804-676-6637', 'hharrill8@amazon.co.jp'),

('Huntley', 'Larwell', '917 Fieldstone Center', null, 'New Orleans', 'LA', '70187', '504-316-2326', 'hlarwell9@facebook.com'),

('Ulrike', 'Devanny', '4719 Nevada Street', null, 'Columbus', 'GA', '31914', '706-526-0327', 'udevannya@webeden.co.uk'),

('Fergus', 'Joiner', '8991 Ilene Plaza', null, 'Seattle', 'WA', '98133', '206-518-6073', 'fjoinerb@buzzfeed.com'),

('Scottie', 'Marquis', '8 Messerschmidt Junction', null, 'Miami', 'FL', '33164', '786-613-6671', 'smarquisc@trellian.com'),

('Nicolina', 'Blencowe', '84 David Avenue', null, 'Lynchburg', 'VA', '24503', '434-114-8159', 'nblencowed@dedecms.com'),

('Karolina', 'Eckert', '40253 Havey Place', null, 'Falls Church', 'VA', '22047', '571-224-3180', 'keckerte@earthlink.net'),

('Ryan', 'Court', '304 Boyd Lane', null, 'Washington', 'DC', '20404', '202-852-0403', 'rcourtf@vk.com'),

('Uriel', 'Fansy', '1361 Dixon Center', null, 'Los Angeles', 'CA', '90101', '213-751-8772', 'ufansyg@mapy.cz'),

('Cassie', 'Chalk', '416 Acker Junction', null, 'Bradenton', 'FL', '34282', '941-471-0677', 'cchalkh@loc.gov'),

('Melody', 'Ivkovic', '0 Bayside Court', null, 'Dallas', 'TX', '75221', '972-176-6214', 'mivkovici@spiegel.de'),

('Teodora', 'Ashwin', '7 Stone Corner Court', null, 'Virginia Beach', 'VA', '23454', '757-201-1566', 'tashwinj@netscape.com'),

('Yovonnda', 'Anespie', '44 Sheridan Court', null, 'Brooklyn', 'NY', '11241', '347-220-0590', 'yanespiek@indiegogo.com'),

('Otis', 'Dawson', '76368 Cherokee Parkway', null, 'Miami Beach', 'FL', '33141', '305-852-0930', 'odawsonl@nature.com'),

('Dacey', 'Bulloch', '74 Hauk Pass', null, 'San Jose', 'CA', '95173', '408-984-8780', 'dbullochm@psu.edu'),

('Hephzibah', 'Raithby', '567 Village Plaza', null, 'San Diego', 'CA', '92160', '619-821-4145', 'hraithbyn@sina.com.cn'),

('Jobey', 'Himsworth', '7617 Arapahoe Circle', null, 'Oklahoma City', 'OK', '73190', '405-873-0124', 'jhimswortho@umich.edu'),

('Cookie', 'St Quenin', '90 Comanche Lane', null, 'Van Nuys', 'CA', '91406', '626-549-3280', 'cstqueninp@twitter.com'),

('Tish', 'Mogford', '96 Holy Cross Place', null, 'Dallas', 'TX', '75236', '214-418-8344', 'tmogfordq@businessinsider.com'),

('Hube', 'Clausson', '9 Northview Alley', null, 'Dallas', 'TX', '75397', '214-936-2284', 'hclaussonr@typepad.com'),

('Aldo', 'Sumpner', '9 Bonner Crossing', null, 'Idaho Falls', 'ID', '83405', '208-540-0440', 'asumpners@gov.uk'),

('Noella', 'Verey', '9 Jenna Place', null, 'Worcester', 'MA', '01605', '508-599-2693', 'nvereyt@topsy.com'),

('Bran', 'Ruselin', '48053 Heffernan Drive', null, 'Santa Fe', 'NM', '87505', '505-358-1919', 'bruselinu@java.com'),

('Kira', 'Jindracek', '2 Sutteridge Pass', null, 'Springfield', 'IL', '62718', '217-123-0958', 'kjindracekv@scientificamerican.com'),

('Tate', 'Ingles', '770 Bellgrove Crossing', null, 'Bradenton', 'FL', '34282', '941-820-0290', 'tinglesw@360.cn'),

('Bran', 'Venners', '7 Northridge Drive', null, 'Milwaukee', 'WI', '53215', '414-967-2951', 'bvennersx@hp.com'),

('Emmery', 'Packington', '01 Blackbird Trail', null, 'Jacksonville', 'FL', '32220', '904-863-3529', 'epackingtony@gov.uk'),

('Monty', 'Hatchell', '95401 Northwestern Crossing', null, 'Jackson', 'MS', '39236', '601-475-8042', 'mhatchellz@home.pl'),

('Berton', 'Anderton', '86 Esch Terrace', null, 'Mobile', 'AL', '36689', '251-733-3820', 'banderton10@newsvine.com'),

('Davidson', 'Wardington', '561 Monument Junction', null, 'Washington', 'DC', '20397', '202-441-3506', 'dwardington11@google.fr'),

('Blisse', 'Hughill', '89279 Evergreen Lane', null, 'Pueblo', 'CO', '81015', '719-552-6644', 'bhughill12@tumblr.com'),

('Meredithe', 'Dorwood', '5 Main Point', null, 'Birmingham', 'AL', '35254', '205-974-8269', 'mdorwood13@alibaba.com'),

('Brunhilde', 'Ivatts', '3 Rieder Place', null, 'Charleston', 'SC', '29403', '843-395-3720', 'bivatts14@deliciousdays.com'),

('Bird', 'Murrow', '880 Erie Way', null, 'Portland', 'OR', '97221', '503-633-8527', 'bmurrow15@dion.ne.jp'),

('Kendricks', 'Coulling', '60 Sherman Drive', null, 'Jackson', 'MS', '39210', '601-944-5918', 'kcoulling16@google.de'),

('Linzy', 'Allworthy', '86590 Shoshone Drive', null, 'San Diego', 'CA', '92186', '619-477-3760', 'lallworthy17@flavors.me'),

('Kanya', 'MacAnelley', '70368 Scoville Street', null, 'Kansas City', 'MO', '64136', '816-676-4145', 'kmacanelley18@adobe.com'),

('Annabell', 'Fennick', '60 Messerschmidt Place', null, 'San Antonio', 'TX', '78225', '210-879-1676', 'afennick19@wordpress.com'),

('Tybi', 'Hills', '56 Holy Cross Junction', null, 'Lincoln', 'NE', '68510', '402-504-5690', 'thills1a@shareasale.com'),

('Sibel', 'Upchurch', '8221 Almo Lane', null, 'Knoxville', 'TN', '37919', '865-720-4876', 'supchurch1b@linkedin.com'),

('Cissy', 'Mosdell', '93 Truax Alley', null, 'San Diego', 'CA', '92110', '858-867-9141', 'cmosdell1c@cpanel.net'),

('Alwin', 'Yve', '9786 Vahlen Court', null, 'Hartford', 'CT', '06183', '860-858-0723', 'ayve1d@prlog.org'),

('Shantee', 'Ebdin', '635 Vernon Road', null, 'Davenport', 'IA', '52804', '563-104-9876', 'sebdin1e@mail.ru'),

('Roch', 'Tohill', '61145 American Avenue', null, 'Rochester', 'NY', '14652', '585-755-0343', 'rtohill1f@umich.edu'),

('Chiarra', 'Yoxall', '8953 Bayside Alley', null, 'Louisville', 'KY', '40225', '502-962-0709', 'cyoxall1g@goodreads.com'),

('Lura', 'Calcraft', '5 Fordem Hill', null, 'New Brunswick', 'NJ', '08922', '732-126-3092', 'lcalcraft1h@businessweek.com'),

('Ronalda', 'Nannoni', '842 Canary Place', null, 'Philadelphia', 'PA', '19131', '215-336-3002', 'rnannoni1i@alexa.com'),

('Hermon', 'Illes', '91130 Utah Drive', null, 'Salt Lake City', 'UT', '84152', '801-465-7395', 'hilles1j@prnewswire.com'),

('Thomasine', 'Charsley', '1 Rowland Avenue', null, 'Madison', 'WI', '53779', '608-998-7423', 'tcharsley1k@disqus.com'),

('Amye', 'Jankovic', '479 Larry Lane', null, 'Saint Louis', 'MO', '63150', '314-361-4922', 'ajankovic1l@sakura.ne.jp'),

('Thornie', 'Jeays', '33 Havey Crossing', null, 'Shawnee Mission', 'KS', '66225', '913-351-1943', 'tjeays1m@digg.com'),

('Edita', 'Grgic', '4656 Tony Plaza', null, 'San Antonio', 'TX', '78205', '210-464-8123', 'egrgic1n@pcworld.com'),

('Antonetta', 'Cud', '6851 Thierer Way', null, 'Atlanta', 'GA', '30358', '404-136-1926', 'acud1o@berkeley.edu'),

('Flossi', 'Woolfitt', '9 Crescent Oaks Pass', null, 'Washington', 'DC', '20425', '202-864-2238', 'fwoolfitt1p@is.gd'),

('Casie', 'Yerlett', '9043 Alpine Plaza', null, 'Arlington', 'VA', '22205', '703-676-1897', 'cyerlett1q@yellowpages.com'),

('Reagan', 'Hake', '08600 6th Alley', null, 'Panama City', 'FL', '32412', '850-234-1183', 'rhake1r@ed.gov'),

('Wyn', 'Cattach', '067 Algoma Junction', null, 'San Antonio', 'TX', '78250', '210-214-3739', 'wcattach1s@spotify.com'),

('Chan', 'McCorry', '02 Ryan Parkway', null, 'Charleston', 'WV', '25313', '304-261-4721', 'cmccorry1t@house.gov'),

('Rachelle', 'Brocks', '7121 Jay Way', null, 'New York City', 'NY', '10170', '212-817-0707', 'rbrocks1u@pen.io'),

('Franzen', 'Krabbe', '056 Moulton Street', null, 'Huntsville', 'AL', '35815', '256-535-7027', 'fkrabbe1v@lycos.com'),

('Caz', 'Tutchener', '436 Darwin Crossing', null, 'Vienna', 'VA', '22184', '571-320-4547', 'ctutchener1w@nationalgeographic.com'),

('Calli', 'Gaspero', '2149 Ruskin Avenue', null, 'Shreveport', 'LA', '71166', '318-306-4796', 'cgaspero1x@ed.gov'),

('Aidan', 'Wisden', '4987 Muir Alley', null, 'Reno', 'NV', '89519', '775-490-0965', 'awisden1y@columbia.edu'),

('Lorne', 'Boundley', '9 Towne Junction', null, 'Madison', 'WI', '53716', '608-685-4301', 'lboundley1z@com.com'),

('Marybelle', 'Perello', '0 Butternut Hill', null, 'Arlington', 'VA', '22225', '571-686-9493', 'mperello20@phpbb.com'),

('Flint', 'Pady', '249 Becker Plaza', null, 'Ogden', 'UT', '84403', '801-737-2607', 'fpady21@zimbio.com'),

('Wendell', 'Bowyer', '960 New Castle Drive', null, 'Clearwater', 'FL', '34615', '727-116-9912', 'wbowyer22@wordpress.org'),

('Jeni', 'Nulty', '01466 Troy Way', null, 'Irving', 'TX', '75062', '469-359-9802', 'jnulty23@elpais.com'),

('Nan', 'Langthorne', '56 Toban Circle', null, 'Harrisburg', 'PA', '17140', '717-385-3586', 'nlangthorne24@addthis.com'),

('Ulrich', 'Chable', '4149 Rowland Avenue', null, 'Fresno', 'CA', '93740', '559-594-2449', 'uchable25@newyorker.com'),

('Shepard', 'Manvelle', '15504 Mallory Pass', null, 'Salt Lake City', 'UT', '84145', '801-123-6863', 'smanvelle26@dell.com'),

('Kristoffer', 'Browning', '93850 Calypso Hill', null, 'Chicago', 'IL', '60609', '773-310-6364', 'kbrowning27@github.io'),

('Minette', 'Duncan', '065 Hooker Junction', null, 'Seattle', 'WA', '98121', '425-788-3373', 'mduncan28@nature.com'),

('Bebe', 'Roskam', '1744 Sutherland Road', null, 'Sacramento', 'CA', '94280', '916-894-1490', 'broskam29@state.gov'),

('Filip', 'Jeannequin', '9169 Marquette Circle', null, 'Spring', 'TX', '77388', '409-615-6617', 'fjeannequin2a@acquirethisname.com'),

('Tracey', 'Domanski', '58 Oneill Place', null, 'Cheyenne', 'WY', '82007', '307-592-1694', 'tdomanski2b@desdev.cn'),

('Iorgos', 'Gatcliff', '78170 Claremont Park', null, 'Newport News', 'VA', '23605', '757-128-1070', 'igatcliff2c@php.net'),

('Morry', 'Baggelley', '27046 Haas Circle', null, 'Toledo', 'OH', '43615', '419-194-4224', 'mbaggelley2d@ask.com'),

('Clarabelle', 'Rousell', '1 Becker Terrace', null, 'Washington', 'DC', '20073', '202-399-7968', 'crousell2e@constantcontact.com'),

('Lewie', 'Sleightholm', '0 Pepper Wood Junction', null, 'Atlanta', 'GA', '31119', '770-747-1444', 'lsleightholm2f@prnewswire.com'),

('Melicent', 'Prattin', '731 Talmadge Avenue', null, 'Baltimore', 'MD', '21275', '410-911-3978', 'mprattin2g@sina.com.cn'),

('Berny', 'Feighry', '7944 Macpherson Court', null, 'Houston', 'TX', '77228', '713-523-4739', 'bfeighry2h@adobe.com'),

('Dana', 'Asplen', '83 Maple Wood Junction', null, 'Peoria', 'IL', '61656', '309-294-9372', 'dasplen2i@go.com'),

('Kenton', 'Chown', '70490 Pine View Crossing', null, 'Richmond', 'VA', '23293', '804-478-7382', 'kchown2j@canalblog.com'),

('Glen', 'Balharrie', '08350 Homewood Drive', null, 'Omaha', 'NE', '68117', '402-149-7669', 'gbalharrie2k@usa.gov'),

('Neal', 'Fike', '0 Banding Center', null, 'Albuquerque', 'NM', '87180', '505-324-8426', 'nfike2l@omniture.com'),

('Lexine', 'Waldock', '19467 Cody Terrace', null, 'Richmond', 'VA', '23285', '804-365-9701', 'lwaldock2m@vimeo.com'),

('Rosalyn', 'Lieb', '2 Daystar Plaza', null, 'El Paso', 'TX', '88569', '915-182-2351', 'rlieb2n@fda.gov'),

('Ninette', 'Durnford', '2 Milwaukee Terrace', null, 'Wilmington', 'DE', '19897', '302-327-5408', 'ndurnford2o@hostgator.com'),

('Amble', 'Arthy', '63298 Bunting Pass', null, 'Daytona Beach', 'FL', '32123', '386-854-4946', 'aarthy2p@hostgator.com'),

('King', 'Larkkem', '10562 Lotheville Parkway', null, 'New Orleans', 'LA', '70149', '504-446-2883', 'klarkkem2q@theatlantic.com'),

('Wash', 'Brumfitt', '9 Toban Junction', null, 'Waco', 'TX', '76705', '254-144-4935', 'wbrumfitt2r@google.com.br'),

('Lari', 'Bahike', '3867 Westerfield Plaza', null, 'Plano', 'TX', '75074', '214-328-5591', 'lbahike2s@delicious.com')

GO

insert into prj\_Employee (firstname, lastname, addressline1, addressline2, city, state, zipcode, phone, emailaddress, departmentid, supervisorid, roleid) values

('Merna', 'Hatley', '92 Packers Road', null, 'Chicago', 'IL', 60662, '135-994-7757', 'mhatley0@liveinternet.ru', 7, 16, 2),

('Floyd', 'Cummings', '26 Leroy Avenue', null, 'Chicago', 'IL', 60661, '853-531-5958', 'fcummings1@creativecommons.org', 4, 14, 7),

('Lynnell', 'Cornelleau', '18 Helena Lane', null, 'Chicago', 'IL', 60663, '460-699-9924', 'lcornelleau2@phpbb.com', 1, 12, 6),

('Davidde', 'McClelland', '1 Mayer Drive', null, 'Chicago', 'IL', 60663, '218-545-1116', 'dmcclelland3@geocities.com', 2, 4, 2),

('Basia', 'Merida', '2 Westport Drive', null, 'Chicago', 'IL', 60661, '538-834-0767', 'bmerida4@surveymonkey.com', 7, 12, 8),

('Alidia', 'Pinder', '01 Calypso Point', null, 'Chicago', 'IL', 60662, '913-765-3975', 'apinder5@unesco.org', 1, 2, 3),

('Danyelle', 'MacGeffen', '4779 Portage Crossing', null, 'Chicago', 'IL', 60661, '344-936-2482', 'dmacgeffen6@time.com', 7, 6, 8),

('Darrelle', 'Quinevan', '9 Aberg Center', null, 'Chicago', 'IL', 60662, '292-187-5414', 'dquinevan7@mapy.cz', 4, 14, 1),

('Bertrando', 'Hatherleigh', '63630 Westerfield Circle', null, 'Chicago', 'IL', 60662, '140-619-4706', 'bhatherleigh8@pen.io', 8, 3, 8),

('Ugo', 'Kindall', '1477 Commercial Center', null, 'Chicago', 'IL', 60663, '404-414-3200', 'ukindall9@tamu.edu', 2, 17, 3),

('Kliment', 'Ladell', '5 Birchwood Drive', null, 'Chicago', 'IL', 60663, '876-899-3681', 'kladella@fda.gov', 3, 20, 3),

('Velvet', 'Tweedell', '7 Riverside Pass', null, 'Chicago', 'IL', 60661, '234-197-9373', 'vtweedellb@state.gov', 1, 8, 3),

('Norina', 'McInteer', '71 Algoma Avenue', null, 'Chicago', 'IL', 60663, '518-295-6153', 'nmcinteerc@mashable.com', 1, 6, 8),

('Torrence', 'Camilli', '98087 Superior Lane', null, 'Chicago', 'IL', 60663, '674-233-4423', 'tcamillid@house.gov', 2, 19, 2),

('Erna', 'Dabs', '37 Vermont Pass', null, 'Chicago', 'IL', 60661, '147-782-1425', 'edabse@sogou.com', 4, 13, 4),

('Sile', 'Crean', '373 Warner Junction', null, 'Chicago', 'IL', 60661, '488-980-3478', 'screanf@sun.com', 8, 6, 1),

('Vince', 'Yandle', '5 Springview Circle', null, 'Chicago', 'IL', 60662, '617-579-5942', 'vyandleg@unicef.org', 2, 11, 7),

('Erich', 'Paulack', '57323 Northland Drive', null, 'Chicago', 'IL', 60662, '762-828-0260', 'epaulackh@free.fr', 6, 7, 1),

('Reinaldos', 'Smoote', '457 Scofield Street', null, 'Chicago', 'IL', 60661, '636-200-5784', 'rsmootei@mysql.com', 6, 15, 2),

('Marsha', 'Fullager', '12083 Meadow Ridge Court', null, 'Chicago', 'IL', 60661, '787-523-1279', 'mfullagerj@ebay.com', 3, 7, 2)

GO

insert into prj\_Item (name, brand, description, barcode, quantity, cost, price, departmentid) values

('Oven Mitts - 15 Inch', 'Corkery Inc', null, '2470411831', 54, 8.01, 9.21, 3),

('Tea - Black Currant', 'Turcotte Inc', null, '7250841386', 54, 86.88, 99.91, 2),

('Snapple - Mango Maddness', 'Quigley, Hilll and Oberbrunner', null, '1056808802', 59, 85.75, 98.61, 2),

('Turkey - Ground. Lean', 'Herzog-Nikolaus', null, '7745506549', 20, 7.88, 9.06, 3),

('Eggplant - Baby', 'Blanda, Hermiston and Hintz', null, '8636396859', 71, 96.82, 111.34, 4),

('Rice Paper', 'Greenfelder Inc', null, '5998844947', 15, 87.47, 100.59, 5),

('Bacardi Raspberry', 'Predovic and Sons', null, '0600810666', 99, 87.0, 100.05, 6),

('Rum - Cream, Amarula', 'Greenholt, Nikolaus and Bernhard', null, '5067536640', 45, 3.18, 3.66, 1),

('Bay Leaf Fresh', 'Schumm, Toy and Lehner', null, '5811279167', 39, 30.16, 34.68, 8),

('Garbag Bags - Black', 'Watsica and Sons', null, '4001408058', 73, 67.58, 77.72, 2),

('Wine - German Riesling', 'Fadel-Hane', null, '2620274176', 52, 37.71, 43.37, 5),

('Pork - Back, Long Cut, Boneless', 'Greenfelder-Rutherford', null, '3710623014', 97, 11.9, 13.69, 3),

('Shrimp - Black Tiger 13/15', 'Welch, Witting and Farrell', null, '2060731534', 11, 68.52, 78.8, 1),

('Pepper - Black, Whole', 'Wilderman Inc', null, '1383595127', 83, 82.41, 94.77, 8),

('Alize Gold Passion', 'Kub, Gleason and Herman', null, '3548877966', 83, 24.17, 27.8, 6),

('Lettuce - Romaine', 'Stroman-Quigley', null, '8039496918', 75, 35.79, 41.16, 7),

('Cheese - Romano, Grated', 'Jaskolski LLC', null, '8085015013', 68, 1.04, 1.2, 1),

('Wine - Trimbach Pinot Blanc', 'Marks Group', null, '1954447817', 31, 40.0, 46.0, 4),

('Lemons', 'Anderson-Friesen', null, '8136969582', 46, 63.16, 72.63, 2),

('Chocolate - White', 'Conn, Hammes and Ruecker', null, '5557437339', 28, 84.14, 96.76, 2),

('Beer - Moosehead', 'Hilll Inc', null, '4163430393', 41, 47.29, 54.38, 6),

('Wine - Bouchard La Vignee Pinot', 'Upton, Deckow and Lehner', null, '0880992638', 88, 5.57, 6.41, 4),

('Pea - Snow', 'Blanda, Langosh and Swaniawski', null, '1753567769', 83, 4.95, 5.69, 1),

('Soup - Cream Of Broccoli, Dry', 'Farrell-Nader', null, '1209976412', 14, 19.69, 22.64, 1),

('Coffee - French Vanilla Frothy', 'Gaylord-Wuckert', null, '7824356442', 77, 77.48, 89.1, 2),

('Quail - Jumbo', 'Little-Terry', null, '3317473843', 26, 59.43, 68.34, 2),

('Glass Clear 7 Oz Xl', 'Baumbach-McClure', null, '2536856887', 75, 49.93, 57.42, 3),

('Beer - Muskoka Cream Ale', 'Block-Raynor', null, '0889906475', 36, 19.41, 22.32, 3),

('Spice - Pepper Portions', 'Shanahan-Corkery', null, '3726768904', 53, 78.8, 90.62, 7),

('Wine - Pinot Noir Stoneleigh', 'Lubowitz-Johnston', null, '1044366362', 94, 68.4, 78.66, 4),

('Wakami Seaweed', 'Monahan-Roob', null, '2482591996', 54, 54.54, 62.72, 7),

('Cup - 4oz Translucent', 'Legros, Stamm and Blanda', null, '7868385987', 82, 49.37, 56.78, 3),

('Lamb - Whole, Frozen', 'Gleason-Murphy', null, '7193351516', 18, 7.36, 8.46, 1),

('Sauce - Alfredo', 'Cartwright, Beahan and Weimann', null, '4124863144', 42, 87.72, 100.88, 8),

('Chicken - Whole', 'Dare Inc', null, '7479468903', 81, 79.23, 91.11, 2),

('Liners - Baking Cups', 'Kihn LLC', null, '0095331409', 64, 38.83, 44.65, 8),

('Cup - 4oz Translucent', 'Schowalter and Sons', null, '7949951656', 84, 72.97, 83.92, 4),

('Pork - Loin, Center Cut', 'Prosacco-Cummings', null, '4072206784', 92, 40.31, 46.36, 6),

('Mushroom - Enoki, Fresh', 'Cummings-Mitchell', null, '9682653843', 64, 83.41, 95.92, 5),

('Olive - Spread Tapenade', 'Glover Group', null, '0228113229', 20, 76.33, 87.78, 1),

('Chilli Paste, Ginger Garlic', 'Oberbrunner-Collier', null, '6318413871', 97, 79.03, 90.88, 6),

('Calypso - Lemonade', 'Balistreri and Sons', null, '5675651063', 0, 68.73, 79.04, 7),

('Tart - Pecan Butter Squares', 'Goyette-Herzog', null, '7902116122', 78, 77.24, 88.83, 5),

('Raspberries - Fresh', 'Rice, O''Keefe and Bahringer', null, '2657178197', 20, 51.66, 59.41, 1),

('Vinegar - Tarragon', 'Kautzer-Haley', null, '5891699672', 37, 25.93, 29.82, 4),

('Nectarines', 'Grimes and Sons', null, '1423788672', 11, 11.62, 13.36, 8),

('Milk 2% 500 Ml', 'Crona, Hilpert and Pagac', null, '3973087989', 44, 30.82, 35.44, 5),

('Cookie Dough - Oatmeal Rasin', 'Jerde, Kemmer and Mayert', null, '5826309067', 84, 74.02, 85.12, 7),

('Nut - Pine Nuts, Whole', 'Sanford, Kuhn and Feil', null, '9727719783', 29, 71.55, 82.28, 1),

('Cheese - Goat', 'Hermiston and Sons', null, '2482518997', 94, 11.62, 13.36, 2),

('Island Oasis - Strawberry', 'Howell-Hudson', null, '8047761617', 34, 60.87, 70.0, 5),

('Wine - White, Riesling, Henry Of', 'Daugherty-Kihn', null, '8129321955', 53, 69.58, 80.02, 1),

('Oil - Truffle, White', 'Volkman Group', null, '5494916839', 87, 16.85, 19.38, 6),

('Oil - Peanut', 'Swaniawski-Deckow', null, '4462271777', 63, 58.32, 67.07, 3),

('Spring Roll Wrappers', 'Schamberger LLC', null, '5879460975', 22, 48.43, 55.69, 3),

('Trout - Rainbow, Fresh', 'Armstrong, O''Reilly and Lindgren', null, '9849573481', 10, 31.43, 36.14, 8),

('Pear - Packum', 'Mante-Kunde', null, '0620216999', 18, 76.43, 87.89, 6),

('Cookies - Fortune', 'Hackett, Brakus and Thiel', null, '4644311561', 46, 90.05, 103.56, 5),

('Pur Source', 'Connelly, Halvorson and Rogahn', null, '3078110044', 100, 82.81, 95.23, 7),

('Wine - Dubouef Macon - Villages', 'Raynor and Sons', null, '7080030757', 39, 60.74, 69.85, 5),

('Rice - Basmati', 'Legros-Rowe', null, '0105841862', 25, 26.22, 30.15, 3),

('Milk Powder', 'Kozey and Sons', null, '7584907059', 33, 78.07, 89.78, 8),

('Beans - Kidney White', 'Bartoletti Group', null, '7630279833', 65, 48.0, 55.2, 3),

('Halibut - Whole, Fresh', 'Wilderman Group', null, '0872873137', 46, 86.52, 99.5, 5),

('Chocolate - Chips Compound', 'Gaylord, Gulgowski and Okuneva', null, '1764093720', 19, 63.2, 72.68, 2),

('Pie Shell - 9', 'Bayer Inc', null, '0910650616', 100, 21.32, 24.52, 3),

('General Purpose Trigger', 'Legros-Lynch', null, '5278978589', 93, 31.2, 35.88, 1),

('Lamb Rack - Ontario', 'Wisoky, Dooley and Wiza', null, '7802764939', 8, 82.77, 95.19, 1),

('Wine - Sherry Dry Sack, William', 'Ebert-King', null, '0111193095', 35, 98.41, 113.17, 7),

('Octopus - Baby, Cleaned', 'Lindgren Inc', null, '1164092413', 80, 25.88, 29.76, 7),

('Vodka - Lemon, Absolut', 'Watsica Inc', null, '3838157095', 95, 48.82, 56.14, 7),

('Mushroom - Shitake, Dry', 'Hermiston-Boyle', null, '4642661204', 44, 47.39, 54.5, 7),

('Lettuce - Sea / Sea Asparagus', 'Schoen, Mante and Johnston', null, '0285776355', 17, 84.82, 97.54, 6),

('Table Cloth 53x53 White', 'Hegmann, Johns and Treutel', null, '1163509477', 29, 39.98, 45.98, 2),

('Milk - 1%', 'Haley-Mills', null, '9869927548', 47, 17.61, 20.25, 7),

('Anchovy In Oil', 'Legros, White and Welch', null, '0016029720', 11, 7.73, 8.89, 8),

('Fib N9 - Prague Powder', 'Herzog, McLaughlin and Schamberger', null, '2660190631', 0, 58.41, 67.17, 3),

('Potatoes - Yukon Gold 5 Oz', 'Turner LLC', null, '8463691676', 3, 69.48, 79.9, 8),

('Chickensplit Half', 'Pfannerstill-Weber', null, '5993521724', 87, 24.21, 27.84, 6),

('Beef - Top Sirloin - Aaa', 'Lemke, Boyle and Treutel', null, '9340743296', 97, 33.97, 39.07, 1),

('Quiche Assorted', 'Thiel Inc', null, '8014432991', 49, 6.24, 7.18, 5),

('Coconut - Shredded, Unsweet', 'Legros-Bogisich', null, '4806790338', 70, 67.12, 77.19, 6),

('Bread - Corn Muffaletta', 'Halvorson-Nikolaus', null, '8119921976', 25, 10.76, 12.37, 1),

('Nori Sea Weed', 'Monahan, Mohr and Herman', null, '3066983773', 21, 90.67, 104.27, 4),

('Lamb - Shoulder', 'Hahn, Schmitt and Watsica', null, '6679531845', 72, 38.24, 43.98, 2),

('Bread Crumbs - Japanese Style', 'Reichert Inc', null, '9862159723', 90, 36.35, 41.8, 4),

('Wine - Valpolicella Masi', 'Osinski-Toy', null, '7482923039', 12, 39.18, 45.06, 6),

('Pate - Cognac', 'Herman-Koch', null, '6977099674', 51, 39.26, 45.15, 2),

('Soup Bowl Clear 8oz92008', 'Douglas Inc', null, '9566696167', 41, 16.23, 18.66, 5),

('Mix - Cocktail Strawberry Daiquiri', 'Herman-Stokes', null, '5455193449', 60, 52.13, 59.95, 7),

('Mushroom - Crimini', 'Botsford Inc', null, '6180350965', 79, 42.86, 49.29, 5),

('Bread - 10 Grain Parisian', 'Morar-Goyette', null, '0164565337', 31, 73.08, 84.04, 2),

('Shrimp - 100 / 200 Cold Water', 'Reinger-Strosin', null, '7522245923', 3, 72.07, 82.88, 1),

('Coffee - Almond Amaretto', 'Corwin, Hermiston and Jakubowski', null, '1843636840', 59, 53.34, 61.34, 4),

('Milk - Skim', 'Kerluke-Mills', null, '7663174720', 18, 10.33, 11.88, 5),

('Chinese Foods - Plain Fried Rice', 'Kihn and Sons', null, '3604461553', 19, 51.09, 58.75, 3),

('Pepper - Roasted Red', 'Douglas and Sons', null, '9382211748', 75, 86.83, 99.85, 1),

('Mayonnaise', 'Johnson, Marks and Bosco', null, '3621854622', 0, 47.67, 54.82, 5),

('Papayas', 'Stracke LLC', null, '9873015418', 45, 96.84, 111.37, 8),

('Cleaner - Lime Away', 'Swaniawski and Sons', null, '8611192478', 95, 90.77, 104.39, 2),

('Galliano', 'Rolfson Group', null, '2573124940', 7, 98.93, 113.77, 8),

('Wine - Zinfandel Rosenblum', 'Koch-Mertz', null, '2373363062', 19, 61.69, 70.94, 8),

('Juice - Tomato, 10 Oz', 'O''Reilly Group', null, '4194564626', 23, 24.13, 27.75, 7),

('Carbonated Water - Peach', 'Zieme-Sauer', null, '7778155036', 14, 99.0, 113.85, 2),

('Beans - Soya Bean', 'Lebsack, West and Collier', null, '2711208273', 45, 38.25, 43.99, 7),

('Basil - Thai', 'Block and Sons', null, '2915340846', 34, 23.48, 27.0, 2),

('Soup - Campbells, Classic Chix', 'Crist-Parisian', null, '2382235365', 30, 56.32, 64.77, 1),

('Salt - Kosher', 'Carroll LLC', null, '3001774738', 18, 40.59, 46.68, 7),

('Sobe - Cranberry Grapefruit', 'Hammes, Greenfelder and Sanford', null, '6355146148', 32, 26.57, 30.56, 5),

('Wheat - Soft Kernal Of Wheat', 'Walker Group', null, '8736082295', 23, 10.28, 11.82, 7),

('Gherkin - Sour', 'Toy-Skiles', null, '2833927770', 29, 21.81, 25.08, 7),

('Cheese - Asiago', 'Conn, Ziemann and Kerluke', null, '2246399238', 30, 27.81, 31.98, 6),

('Pepperoni Slices', 'Dooley Group', null, '7398424531', 14, 74.85, 86.08, 1),

('Table Cloth 54x54 Colour', 'Wolff, Lakin and Moore', null, '0895373718', 55, 46.59, 53.58, 4),

('Lumpfish Black', 'Walsh, Gerlach and Schulist', null, '6458017359', 42, 52.0, 59.8, 5),

('Lamb - Whole Head Off', 'Grady, Hammes and Zemlak', null, '2680468457', 21, 20.23, 23.26, 2),

('Pie Pecan', 'Macejkovic LLC', null, '8507164927', 3, 44.31, 50.96, 5),

('Iced Tea Concentrate', 'Adams LLC', null, '1083557424', 60, 12.0, 13.8, 3),

('Towels - Paper / Kraft', 'Jerde LLC', null, '2393841938', 64, 18.06, 20.77, 6),

('Squeeze Bottle', 'Runte-Cartwright', null, '4813594727', 17, 41.67, 47.92, 7),

('Bread - Ciabatta Buns', 'Balistreri, Sauer and Ullrich', null, '0023147083', 28, 49.28, 56.67, 1),

('Cookie - Oatmeal', 'Schimmel-Auer', null, '7493572046', 34, 39.85, 45.83, 1),

('Tomatoes - Cherry, Yellow', 'Heller, Bode and Langworth', null, '2318595453', 79, 91.68, 105.43, 1),

('Lemonade - Natural, 591 Ml', 'Roberts, Schmeler and Gottlieb', null, '3637278863', 82, 48.97, 56.32, 2),

('Calypso - Strawberry Lemonade', 'Nicolas Group', null, '8876756426', 27, 87.96, 101.15, 4),

('Wine - Tio Pepe Sherry Fino', 'Conn Inc', null, '4499456347', 0, 16.79, 19.31, 8),

('Chervil - Fresh', 'Bartoletti and Sons', null, '6087573747', 69, 83.34, 95.84, 3),

('Zucchini - Mini, Green', 'McDermott-Corkery', null, '8710269215', 28, 55.96, 64.35, 4),

('Wine - Pinot Noir Stoneleigh', 'Fadel-VonRueden', null, '8444552739', 29, 39.96, 45.95, 4),

('Chef Hat 25cm', 'Davis LLC', null, '0861239555', 67, 51.16, 58.83, 8),

('Apple - Delicious, Red', 'Strosin, Parker and Koelpin', null, '4754738918', 81, 77.54, 89.17, 5),

('Soup - Campbells Beef Noodle', 'Thompson, Schaefer and Blick', null, '2232334562', 30, 34.54, 39.72, 3),

('Muffin Batt - Carrot Spice', 'Kassulke and Sons', null, '4404111983', 63, 11.39, 13.1, 5),

('Cake - Miini Cheesecake Cherry', 'Hane Inc', null, '1437213278', 3, 45.42, 52.23, 5),

('Cookies Almond Hazelnut', 'Hamill Group', null, '9036745802', 82, 16.08, 18.49, 6),

('Beer - Tetleys', 'Haag-Daugherty', null, '2380956510', 64, 92.46, 106.33, 4),

('Pepper - Red Chili', 'Dicki, Pacocha and Weber', null, '6102062450', 15, 14.23, 16.36, 1),

('Tart - Raisin And Pecan', 'Wisoky-Berge', null, '0333499468', 98, 94.02, 108.12, 6),

('Schnappes - Peach, Walkers', 'Haley-Larkin', null, '1800358296', 15, 54.09, 62.2, 6),

('Mushroom - Enoki, Dry', 'Jast LLC', null, '3914786035', 77, 61.42, 70.63, 2),

('Pastry - Banana Tea Loaf', 'Paucek-Aufderhar', null, '7082418094', 72, 15.2, 17.48, 5),

('Lemonade - Strawberry, 591 Ml', 'Boyle and Sons', null, '7963716545', 68, 64.57, 74.26, 1),

('Pepper - Cubanelle', 'Littel, Kilback and Schaefer', null, '7599040862', 62, 49.35, 56.75, 6),

('Black Currants', 'Ritchie LLC', null, '4579812921', 66, 4.49, 5.16, 1),

('Wine - Maipo Valle Cabernet', 'Pfeffer-Kreiger', null, '3946915434', 23, 70.71, 81.32, 2),

('Tandoori Curry Paste', 'Strosin Group', null, '7770943418', 26, 73.31, 84.31, 7),

('Cognac - Courvaisier', 'Hahn LLC', null, '2743176830', 0, 92.6, 106.49, 4),

('Yeast Dry - Fermipan', 'Block-Ruecker', null, '7090280543', 77, 27.35, 31.45, 1),

('Anchovy In Oil', 'Parisian LLC', null, '1428129111', 89, 45.38, 52.19, 2),

('Muffin - Zero Transfat', 'O''Keefe and Sons', null, '4289511228', 87, 48.61, 55.9, 1),

('Tia Maria', 'Aufderhar-Prohaska', null, '6788198993', 66, 68.35, 78.6, 6),

('Water - Green Tea Refresher', 'Bruen-Brown', null, '6502229697', 41, 99.63, 114.57, 1),

('Danishes - Mini Cheese', 'Schaden-Herman', null, '5516447089', 29, 12.85, 14.78, 8),

('Mushroom - King Eryingii', 'Quigley, Sipes and Kub', null, '0248496786', 95, 5.13, 5.9, 3),

('Shrimp - Baby, Warm Water', 'Hartmann Group', null, '6717917369', 100, 46.46, 53.43, 1),

('Boogies', 'Padberg-Deckow', null, '6272660499', 11, 13.94, 16.03, 7),

('Beef - Shank', 'Bosco, Farrell and Kuhn', null, '1164691023', 94, 40.36, 46.41, 7),

('Calypso - Pineapple Passion', 'Marvin-Cormier', null, '5275608357', 76, 47.67, 54.82, 1),

('Kale - Red', 'Schuster-Weber', null, '1400697859', 36, 61.72, 70.98, 3),

('Crackers - Graham', 'Feil-Boehm', null, '8403911734', 17, 16.86, 19.39, 2),

('Parasol Pick Stir Stick', 'Breitenberg-DuBuque', null, '5047005046', 46, 13.55, 15.58, 7),

('Fruit Mix - Light', 'McClure, Grant and Jones', null, '8239314627', 23, 93.44, 107.46, 7),

('Beans - Fava Fresh', 'Crist-Kutch', null, '0399972285', 74, 24.77, 28.49, 2),

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('Soap - Hand Soap', 'Kessler-Johnston', null, '4619487325', 56, 97.26, 111.85, 5),

('Oneshot Automatic Soap System', 'Turcotte and Sons', null, '5045525387', 5, 12.61, 14.5, 3),

('Noodles - Steamed Chow Mein', 'Corkery and Sons', null, '5684169147', 16, 45.2, 51.98, 4),

('Celery', 'Rippin, Kiehn and Lockman', null, '0205805027', 7, 78.97, 90.82, 7),

('Flower - Commercial Spider', 'Christiansen Inc', null, '1667134906', 82, 38.8, 44.62, 8),

('French Pastry - Mini Chocolate', 'Feeney-Hermiston', null, '6342811563', 64, 3.91, 4.5, 8),

('Wine - White, Riesling, Semi - Dry', 'Heathcote and Sons', null, '6282432294', 18, 24.51, 28.19, 4),

('Fennel - Seeds', 'Koelpin, Davis and Nicolas', null, '2824135174', 33, 16.11, 18.53, 6),

('Kellogs All Bran Bars', 'Bosco LLC', null, '2585034720', 55, 20.25, 23.29, 8),

('Stock - Veal, White', 'Kuhn and Sons', null, '7700844771', 4, 25.26, 29.05, 8),

('Beef - Tongue, Fresh', 'Johnston, Bartell and Von', null, '4622402807', 18, 21.89, 25.17, 4),

('Soup Bowl Clear 8oz92008', 'Toy, Schamberger and Torp', null, '5893606590', 18, 1.69, 1.94, 1),

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('Eggplant Oriental', 'Bruen-Huels', null, '6560297322', 91, 85.17, 97.95, 6),

('Pork - Chop, Frenched', 'Pfeffer LLC', null, '1454744227', 41, 72.85, 83.78, 6),

('Pop - Club Soda Can', 'Heller-Nader', null, '9481245004', 79, 15.33, 17.63, 4),

('Kale - Red', 'VonRueden-Nitzsche', null, '9415022469', 78, 48.58, 55.87, 7),

('Bread - Roll, Whole Wheat', 'Auer LLC', null, '4858955273', 91, 40.84, 46.97, 4),

('Juice - Ocean Spray Cranberry', 'Emard, Abernathy and O''Hara', null, '6968828936', 8, 91.22, 104.9, 3),

('Cheese - Roquefort Pappillon', 'Johnston-Schiller', null, '1816495336', 68, 48.49, 55.76, 5),

('Pork - Smoked Back Bacon', 'Ritchie and Sons', null, '2631019229', 56, 60.45, 69.52, 6),

('Sage Derby', 'Fisher-Kihn', null, '9533172339', 54, 69.05, 79.41, 7),

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('C - Plus, Orange', 'Homenick-Rolfson', null, '2562316606', 37, 78.9, 90.74, 3),

('Rice - Wild', 'Zemlak and Sons', null, '8523940081', 53, 99.49, 114.41, 6),

('Crackers - Graham', 'Koss-Lindgren', null, '7180285684', 77, 66.46, 76.43, 3),

('Blueberries', 'Yundt, Jaskolski and Hermiston', null, '9071398927', 19, 20.65, 23.75, 3),

('Soup - Base Broth Chix', 'Skiles-Harvey', null, '3712056958', 53, 69.42, 79.83, 7),

('Jam - Raspberry', 'Walker-Lubowitz', null, '5955810439', 16, 57.14, 65.71, 7),

('Kiwano', 'Hoeger, Monahan and Reichert', null, '0386268460', 18, 59.27, 68.16, 7),

('Garlic - Peeled', 'Von Group', null, '0414475917', 98, 20.1, 23.12, 7),

('Mustard - Dry, Powder', 'Hamill-Stark', null, '7133705478', 55, 67.15, 77.22, 1),

('Beer - Blue', 'Gislason-Murphy', null, '2090230290', 96, 12.89, 14.82, 4),

('Sambuca - Opal Nera', 'Lang-Nikolaus', null, '4988665828', 96, 96.94, 111.48, 5),

('Bagel - Sesame Seed Presliced', 'Wintheiser-Abshire', null, '2824409703', 45, 10.95, 12.59, 1),

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('Credit', 'Visa', 'sociis natoque penatibus et'),

('Credit', 'Discover', 'odio cras mi'),

('Debit', 'Master', 'neque duis'),

('Debit', 'Visa', 'ornare consequat lectus in'),

('Debit', 'Discover', 'aenean sit amet justo')

GO

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('Bobina', 'Steinhammer', 'Skinix', '805-710-3311', 'bsteinhammer0@friendfeed.com', '0669 Blue Bill Park Circle', null, 'Santa Barbara', 'CA', '93111'),

('Chelsey', 'Cowtherd', 'Cogibox', '714-328-1883', 'ccowtherd1@livejournal.com', '0 Maple Wood Road', null, 'Orange', 'CA', '92862'),

('Forrest', 'Dillistone', 'Feedmix', '804-308-9765', 'fdillistone2@latimes.com', '90 Marcy Court', null, 'Richmond', 'VA', '23260'),

('Hastie', 'Gretton', 'Oyope', '410-367-9088', 'hgretton3@fotki.com', '6805 Holy Cross Center', null, 'Baltimore', 'MD', '21281'),

('Jethro', 'Paterson', 'Skalith', '425-981-8787', 'jpaterson4@printfriendly.com', '633 Muir Way', null, 'Everett', 'WA', '98206'),

('Petronille', 'Goldine', 'Flipopia', '502-788-9898', 'pgoldine5@amazonaws.com', '6653 Hayes Junction', null, 'Louisville', 'KY', '40210'),

('Arturo', 'Dumberrill', 'Ozu', '601-816-0785', 'adumberrill6@yahoo.com', '1311 Lien Drive', null, 'Meridian', 'MS', '39305'),

('Hortense', 'Borley', 'Mynte', '937-166-2566', 'hborley7@privacy.gov.au', '069 Dovetail Road', null, 'Dayton', 'OH', '45414'),

('Tate', 'Kenington', 'Brainlounge', '713-538-7950', 'tkenington8@soup.io', '62 Park Meadow Junction', null, 'Houston', 'TX', '77234'),

('Neale', 'Hallor', 'DabZ', '713-987-1226', 'nhallor9@liveinternet.ru', '2627 Iowa Parkway', null, 'Houston', 'TX', '77035'),

('Fritz', 'Folini', 'Zooveo', '617-279-3248', 'ffolinia@indiegogo.com', '67 Oak Way', null, 'Boston', 'MA', '02109'),

('Angie', 'Mibourne', 'Kare', '530-788-0831', 'amibourneb@dailymotion.com', '01 Iowa Pass', null, 'Sacramento', 'CA', '95833'),

('Marjie', 'Dakhno', 'Mudo', '205-503-2312', 'mdakhnoc@bloglovin.com', '2 High Crossing Hill', null, 'Birmingham', 'AL', '35290'),

('Pearce', 'Dansie', 'Dynazzy', '281-589-5352', 'pdansied@netscape.com', '509 Butternut Pass', null, 'Houston', 'TX', '77025'),

('Geneva', 'Thorneley', 'Twiyo', '502-694-3415', 'gthorneleye@washingtonpost.com', '0 Jay Plaza', null, 'Migrate', 'KY', '41905'),

('Benedikta', 'Wallas', 'Thoughtworks', '713-514-1283', 'bwallasf@mail.ru', '8 Schmedeman Street', null, 'Houston', 'TX', '77281'),

('Codie', 'Pollastro', 'Omba', '817-239-2454', 'cpollastrog@mozilla.org', '34 Fairfield Pass', null, 'Fort Worth', 'TX', '76129'),

('Gran', 'Frayling', 'Bubblemix', '615-636-4310', 'gfraylingh@youtu.be', '267 Meadow Vale Crossing', null, 'Nashville', 'TN', '37210'),

('Arlin', 'Osbiston', 'Linktype', '786-467-6386', 'aosbistoni@accuweather.com', '6 Graceland Place', null, 'Miami', 'FL', '33111'),

('Tallie', 'Lettuce', 'Meetz', '202-296-8874', 'tlettucej@sitemeter.com', '46 Bultman Way', null, 'Washington', 'DC', '20575'),

('Nikolaos', 'Romayne', 'JumpXS', '714-672-6922', 'nromaynek@vk.com', '9911 Springview Place', null, 'Huntington Beach', 'CA', '92648'),

('Margalit', 'Stuckey', 'Wikizz', '423-440-0659', 'mstuckeyl@shutterfly.com', '556 Brentwood Trail', null, 'Chattanooga', 'TN', '37405'),

('Kort', 'Mantz', 'Skivee', '405-663-7449', 'kmantzm@hubpages.com', '98242 Tony Crossing', null, 'Oklahoma City', 'OK', '73152'),

('Godfry', 'Been', 'Realfire', '757-606-8465', 'gbeenn@cmu.edu', '91 Memorial Trail', null, 'Norfolk', 'VA', '23514'),

('Inness', 'Eley', 'Linkbuzz', '316-846-9029', 'ieleyo@ca.gov', '54 Reindahl Court', null, 'Wichita', 'KS', '67215'),

('Risa', 'Rittmeier', 'Jamia', '502-208-9666', 'rrittmeierp@usatoday.com', '97 Warrior Drive', null, 'Louisville', 'KY', '40256'),

('Kala', 'Ollivierre', 'Tagcat', '281-516-1146', 'kollivierreq@booking.com', '7933 Oneill Plaza', null, 'Houston', 'TX', '77085'),

('Atalanta', 'Ledster', 'DabZ', '513-628-0829', 'aledsterr@wufoo.com', '1625 Dovetail Place', null, 'Cincinnati', 'OH', '45249'),

('Nolly', 'Sandilands', 'Fanoodle', '757-969-8546', 'nsandilandss@patch.com', '02092 Lindbergh Trail', null, 'Virginia Beach', 'VA', '23471'),

('Shea', 'Kurt', 'Ailane', '417-997-6974', 'skurtt@yelp.com', '0486 Northview Road', null, 'Springfield', 'MO', '65810'),

('Olly', 'Seeds', 'Eidel', '314-176-3072', 'oseedsu@homestead.com', '387 Dahle Parkway', null, 'Saint Louis', 'MO', '63116'),

('Kristoforo', 'Shannon', 'Thoughtstorm', '917-679-5009', 'kshannonv@canalblog.com', '703 Nevada Way', null, 'New York City', 'NY', '10110'),

('Aryn', 'Mirralls', 'Skyndu', '214-283-8254', 'amirrallsw@joomla.org', '42 Barnett Hill', null, 'Dallas', 'TX', '75260'),

('Ardisj', 'Tadgell', 'Tazz', '419-820-5410', 'atadgellx@prweb.com', '70058 Linden Plaza', null, 'Toledo', 'OH', '43610'),

('Allison', 'Hatcher', 'Centidel', '502-519-9072', 'ahatchery@fda.gov', '970 5th Park', null, 'Frankfort', 'KY', '40618'),

('Ketti', 'McDougal', 'Demimbu', '407-583-2629', 'kmcdougalz@ucsd.edu', '15118 Raven Crossing', null, 'Kissimmee', 'FL', '34745'),

('Korry', 'Crewes', 'Eidel', '517-922-0977', 'kcrewes10@eventbrite.com', '1890 Browning Road', null, 'Lansing', 'MI', '48956'),

('Suzi', 'Bishopp', 'Realcube', '404-707-6497', 'sbishopp11@flickr.com', '2 Kingsford Trail', null, 'Atlanta', 'GA', '30311'),

('Melissa', 'Pluvier', 'Thoughtstorm', '972-587-2144', 'mpluvier12@scientificamerican.com', '8 Garrison Street', null, 'Dallas', 'TX', '75246'),

('Currey', 'Macvain', 'Zoomzone', '254-167-2699', 'cmacvain13@weibo.com', '8934 Pleasure Terrace', null, 'Gatesville', 'TX', '76598'),

('Cathe', 'Duchesne', 'Oloo', '404-826-6384', 'cduchesne14@eventbrite.com', '48 Lake View Street', null, 'Atlanta', 'GA', '30340'),

('Eustacia', 'Wormstone', 'Chatterpoint', '801-715-1604', 'ewormstone15@comcast.net', '3 Manufacturers Avenue', null, 'Salt Lake City', 'UT', '84130'),

('Denny', 'Ruckert', 'Browsecat', '502-303-8027', 'druckert16@ovh.net', '96288 Aberg Terrace', null, 'Louisville', 'KY', '40250'),

('Stevana', 'Blackey', 'Meemm', '530-766-5293', 'sblackey17@fastcompany.com', '92 Meadow Vale Parkway', null, 'Sacramento', 'CA', '95833'),

('Zoe', 'John', 'Devpoint', '415-778-2948', 'zjohn18@freewebs.com', '1383 Crest Line Pass', null, 'San Francisco', 'CA', '94142'),

('Claudina', 'Kryzhov', 'Photofeed', '212-619-2959', 'ckryzhov19@dropbox.com', '9534 Harbort Junction', null, 'New York City', 'NY', '10009'),

('Daisy', 'Preece', 'Feedfish', '716-550-6148', 'dpreece1a@samsung.com', '7168 Spenser Trail', null, 'Buffalo', 'NY', '14215'),

('Valera', 'Galland', 'Thoughtsphere', '808-563-9406', 'vgalland1b@parallels.com', '692 Utah Terrace', null, 'Honolulu', 'HI', '96835'),

('Sigismondo', 'Saladin', 'Yotz', '910-649-0300', 'ssaladin1c@squarespace.com', '7279 Sheridan Pass', null, 'Fayetteville', 'NC', '28305'),

('Anderson', 'Varsey', 'Bluezoom', '601-210-0960', 'avarsey1d@rakuten.co.jp', '960 Thackeray Circle', null, 'Jackson', 'MS', '39236')

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('2019-11-13 05:37:28', 47.51, 1, '2019-11-17 05:37:28'),

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('2019-11-05 15:39:19', 38.15, 2, '2019-11-10 15:39:19'),

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('2020-05-23 01:27:43', 33.47, 1, '2020-05-29 01:27:43'),

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GO

insert into prj\_ProcurementOrderList (orderid, itemid, quantity) values

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GO

insert into prj\_OrderItemList (orderid, itemid, quantity) values

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(89, 130, 2),

(122, 93, 97),

(161, 50, 23),

(133, 35, 1)

GO

--View Creation

CREATE VIEW SalesBasedOnItems

AS

SELECT items.Name, COUNT(1) AS [Ordered]

FROM prj\_Order AS orders

INNER JOIN prj\_OrderItemList AS OrderItems

ON orders.OrderID = OrderItems.OrderID

INNER JOIN prj\_Item AS items

ON OrderItems.ItemID = items.ItemID

WHERE orders.OrderDate BETWEEN DATEADD(DAY, -31, GETDATE()) AND GETDATE()

GROUP BY items.Name

GO

CREATE VIEW ItemsToProcureBasedOnOrders

AS

SELECT items.Name, SUM(OrderItems.Quantity) AS [Ordered], items.Quantity AS [Remaining]

FROM prj\_Order AS orders

INNER JOIN prj\_OrderItemList AS OrderItems

ON orders.OrderID = OrderItems.OrderID

INNER JOIN prj\_Item AS items

ON OrderItems.ItemID = items.ItemID

WHERE items.Quantity <= 15

AND orders.OrderDate BETWEEN DATEADD(DAY, -31, GETDATE()) AND GETDATE()

GROUP BY items.Name, items.Quantity

GO

CREATE VIEW ProfitPerItem

AS

SELECT

department.Name AS [Department\_Name],

item.Name AS [Item\_Name],

item.Description AS [Item\_Description],

item.Cost AS [Purchase\_Price],

item.Price AS [Sale\_Price],

CONVERT(VARCHAR, CONVERT(INT,ROUND(((item.Price - item.Cost)/item.Cost)\*100, 0))) + '%' AS [Margin],

SUM(orderItem.Quantity) AS [Quantity\_Sold],

item.Quantity AS [Quantity\_Remaining],

SUM((orderItem.Quantity \* (item.Price - (item.Price \* ISNULL(orderItem.DiscountPercentage, 0)/100))) - (orderItem.Quantity \* item.Cost)) AS [Profit],

CONVERT(VARCHAR, CONVERT(INT,ROUND(SUM((orderItem.Quantity \* (item.Price - (item.Price \* ISNULL(orderItem.DiscountPercentage, 0)/100))) - (orderItem.Quantity \* item.Cost))/SUM(orderItem.Quantity \* item.Price)\*100, 0))) + '%' AS [Profit\_Percent]

FROM prj\_Order AS orders

INNER JOIN prj\_OrderItemList AS orderItem

ON orders.OrderID = orderItem.OrderID

INNER JOIN prj\_Item AS item

ON orderItem.ItemID = item.ItemID

INNER JOIN prj\_Department AS department

ON item.DepartmentID = department.DepartmentID

GROUP BY department.Name,

item.Name,

item.Description,

item.Cost,

item.Price,

item.Quantity,

CONVERT(VARCHAR, (item.Price - item.Cost)/item.Cost)

GO

CREATE VIEW ProcurementStats

AS

SELECT vendor.FirstName AS [vendor\_First\_name],

vendor.LastName AS [vendor\_last\_name],

item.Name AS [Item\_Name],

AVG(DATEDIFF(DAY, orders.OrderDate, orders.OrderFullfilmentDate)) AS [days\_needed]

FROM prj\_ProcurementOrders AS orders

INNER JOIN prj\_ProcurementOrderList AS orderList

ON orders.OrderID = orderList.OrderID

INNER JOIN prj\_Item AS item

ON orderList.ItemID = item.ItemID

INNER JOIN prj\_Vendor AS vendor

ON orders.VendorID = vendor.VendorID

WHERE orders.OrderFullfilmentDate IS NOT NULL

GROUP BY vendor.FirstName,

vendor.LastName,

item.Name

GO

CREATE VIEW CurrentSalesPerDepartment

AS

SELECT departments.Name,

SUM((orderItems.Quantity \* (items.Price - (items.Price \* ISNULL(OrderItems.DiscountPercentage, 0) / 100))) - (OrderItems.Quantity \* items.Cost)) AS [Profit]

FROM prj\_Order AS orders

INNER JOIN prj\_OrderItemList AS OrderItems

ON orders.OrderID = OrderItems.OrderID

INNER JOIN prj\_Item AS items

ON OrderItems.ItemID = items.ItemID

INNER JOIN prj\_Department AS departments

On items.DepartmentID = departments.DepartmentID

WHERE YEAR(orders.OrderDate) = YEAR(GETDATE())

AND MONTH(orders.OrderDate) = MONTH(GETDATE())

GROUP BY departments.Name

GO

--Type creation

CREATE TYPE ItemsListType AS Table (itemId INT, quantity INT, discount INT)

GO

--Procedure creation

CREATE PROCEDURE GetProfitsByMonth

AS

BEGIN

SELECT YEAR(orders.OrderDate) AS [Year],

MONTH(orders.OrderDate) AS [Month],

SUM((orderItems.Quantity \* (items.Price - (items.Price \* ISNULL(OrderItems.DiscountPercentage, 0) / 100))) - (OrderItems.Quantity \* items.Cost)) AS [Profit]

FROM prj\_Order AS orders

INNER JOIN prj\_OrderItemList AS OrderItems

ON orders.OrderID = OrderItems.OrderID

INNER JOIN prj\_Item AS items

ON OrderItems.ItemID = items.ItemID

GROUP BY YEAR(orders.OrderDate),

MONTH(orders.OrderDate)

ORDER BY [Year] DESC, [Month] DESC

END

GO

CREATE PROCEDURE AddNewOrder(

@p\_OrderNumber VARCHAR(20),

@p\_PaymentAmount DECIMAL,

@p\_paymentModeId INT,

@p\_orderTypeId INT,

@p\_customerId INT,

@p\_items ItemsListType READONLY) AS

BEGIN

INSERT INTO prj\_Order (ordernumber, orderdate, orderstatus, paymentamount, paymentmodeid, ordertypeid, customerid)

VALUES (@p\_OrderNumber, GETDATE(), 'Completed', @p\_PaymentAmount, @p\_paymentModeId, @p\_orderTypeId, @p\_customerId)

DECLARE @orderID INT = @@IDENTITY

INSERT INTO prj\_OrderItemList(orderid, itemid, quantity, DiscountPercentage)

SELECT @orderID, itemId, quantity, discount

FROM @p\_items

END

GO

CREATE PROCEDURE UpdateOrder(

@p\_orderNumber VARCHAR(20),

@p\_OrderStatus VARCHAR(10)) AS

BEGIN

UPDATE prj\_Order

SET OrderStatus = @p\_OrderStatus

WHERE OrderNumber = @p\_orderNumber

END

GO

CREATE PROCEDURE SearchBarCode(

@p\_BarCode VARCHAR(20)) AS

SELECT [Name] AS Item\_Name,

Brand AS Item\_Brand,

[Description] AS [Item\_description],

Quantity AS [Remaining\_Quantity],

Price AS [Item\_Price]

FROM prj\_Item WHERE Barcode = @p\_BarCode

GO

CREATE PROCEDURE SalesHistoryForDepartment (

@p\_DepartmentId INT) AS

SELECT departments.Name,

YEAR(orders.OrderDate) AS [Year],

MONTH(orders.OrderDate) AS [Month],

SUM((orderItems.Quantity \* (items.Price - (items.Price \* ISNULL(OrderItems.DiscountPercentage, 0) / 100))) - (OrderItems.Quantity \* items.Cost)) AS [Profit]

FROM prj\_Order AS orders

INNER JOIN prj\_OrderItemList AS OrderItems

ON orders.OrderID = OrderItems.OrderID

INNER JOIN prj\_Item AS items

ON OrderItems.ItemID = items.ItemID

INNER JOIN prj\_Department AS departments

On items.DepartmentID = departments.DepartmentID

WHERE departments.DepartmentID = @p\_DepartmentId

GROUP BY departments.Name,

YEAR(orders.OrderDate),

MONTH(orders.OrderDate)

ORDER BY [Year] DESC, [Month] DESC

GO

CREATE PROCEDURE GetItemAverageShelfLife AS

BEGIN

DECLARE @itemOrders TABLE(

item\_Name VARCHAR(50),

shelf\_life INT)

INSERT INTO @itemOrders

SELECT items.Name,

DATEDIFF(DAY, orders.OrderDate, LEAD(orders.OrderDate, 1) OVER(PARTITION BY items.Name ORDER BY orders.OrderDate)) [shelf\_life]

FROM prj\_ProcurementOrders AS orders

INNER JOIN prj\_ProcurementOrderList AS orderList

ON orders.OrderID = orderList.OrderID

INNER JOIN prj\_Item AS items

ON orderList.ItemID = items.ItemID

ORDER BY items.Name

SELECT item\_name, ISNULL(AVG(shelf\_life), 999) AS [shelf\_life]

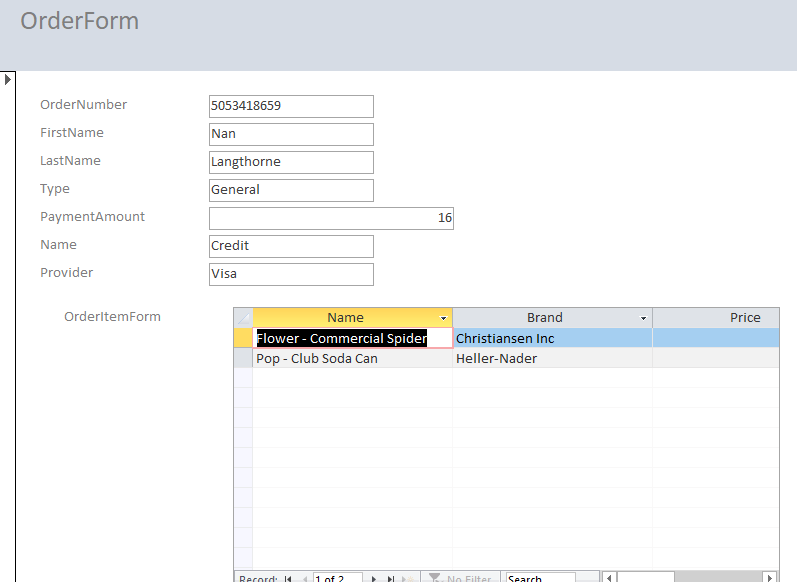
FROM @itemOrders

GROUP BY item\_Name

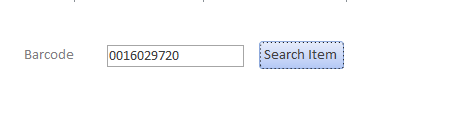
ORDER BY shelf\_life ASC

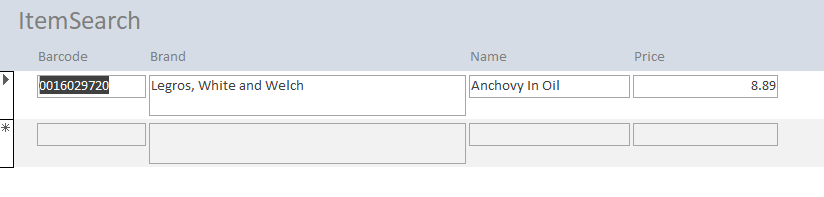
END

# Forms



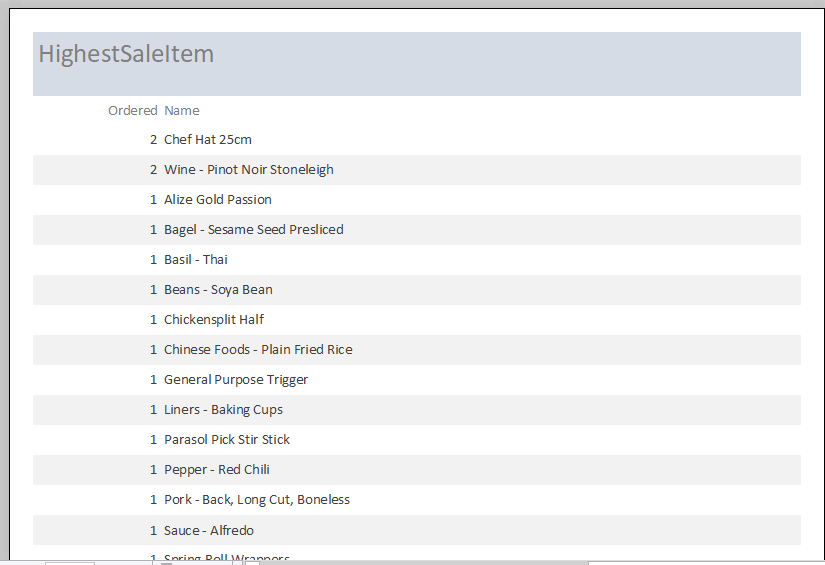
## Search Item by Barcode





# Answers to Data Questions

## Which item is being ordered most?



## What department has most profits?



## Which items are taking long time to order?



## What is the average shelf cycle for items in the store?



## Sales report for past 1 year



## Sales trend for a Department



# Summary

Logical and conceptual modelling helped me understand the database design in-depth. Drawing and Access are extremely useful in viewing the database from top to bottom in the hierarchical modeling. Learning to code in R by connecting to a SQL Database opened a new perspective and gave me more ideas to implement in the future.