--DROP TABLE Dim\_Customer

--DROP TABLE Dim\_Date

--DROP TABLE Dim\_Product

--DROP TABLE Dim\_Employee

CREATE TABLE [dbo].[Dim\_Product](

Product\_Id [INT] NOT NULL PRIMARY KEY,

Product\_Code [INT] NOT NULL,

Product\_Type [NVARCHAR] (50) NOT NULL,

Product\_Name [NVARCHAR] (50) NOT NULL,

Product\_Unit [NVARCHAR] (50) NOT NULL,

)

INSERT INTO [dbo].[Dim\_Product] VALUES

(1,4011,N'Bread',N'Breadcrumbs',N'1 kg'),

(2, 4012,N'Bread',N'Panini',N' each'),

(3, 4013,N'Dairy',N'Butter',N'1.8 kg'),

(4, 4014,N'Dairy',N'Buttermilk',N'1 litre'),

(5, 4015,N'Dairy',N'Cream',N'0.5 litre'),

(6, 4016,N'Dairy',N'Milk',N'1 litre'),

(7, 4017,N'Fruit',N'Apple',N' each'),

(8, 4018,N'Fruit',N'Avocado',N' each'),

(9, 4019,N'Fruit',N'Banana',N'1 each'),

(10, 4020,N'Fruit',N'Blackberries',N'1 kg');

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

Employee\_Id [INT] NOT NULL PRIMARY KEY,

Employee\_SSN [nvarchar](50) NOT NULL,

Employee\_Lastname [nvarchar](50) NOT NULL,

Employee\_Firstname [nVARCHAR] (50) NOT NULL,

Employee\_Birthdate[datetime] NOT NULL,

Employee\_Gender[NVARCHAR] (50) NOT NULL,

Employee\_Email [NVARCHAR] (50) NOT NULL,

Employee\_Phone [nvarchar](50) NOT NULL,

Employee\_Address [NVARCHAR] (50) NOT NULL,

Employee\_Zip [int] NOT NULL,

Employee\_City [NVARCHAR] (50) NOT NULL,

Employee\_State [VARCHAR] (50) NOT NULL,

Employee\_Salary [INT] NOT NULL,

Employee\_Position [VARCHAR] (50) NOT NULL

)

INSERT INTO Dim\_Employee (Employee\_Id, Employee\_SSN, Employee\_Lastname, Employee\_Firstname, Employee\_Birthdate, Employee\_Gender, Employee\_Email, Employee\_Phone, Employee\_Address, Employee\_Zip, Employee\_City, Employee\_State, Employee\_Salary, Employee\_Position) VALUES (1, '788-288-718', 'lawson', 'chris', '1988-02-22', 'f', 'Chri.LAWSON7987@mail2web.com', '(701) 446-2519', '8664 haddock', '35027', 'birmingham', 'al', 3986, 'Clerk');

INSERT INTO Dim\_Employee (Employee\_Id, Employee\_SSN, Employee\_Lastname, Employee\_Firstname, Employee\_Birthdate, Employee\_Gender, Employee\_Email, Employee\_Phone, Employee\_Address, Employee\_Zip, Employee\_City, Employee\_State, Employee\_Salary, Employee\_Position) VALUES (2, '194-651-816', 'solis', 'isaac', '1968-08-08', 'f', 'Is.SOLIS4398@yahoo.com', '(539) 946-9174', '5308 pratt', '10633', 'new york', 'ny', 4626, 'Cashier');

INSERT INTO Dim\_Employee (Employee\_Id, Employee\_SSN, Employee\_Lastname, Employee\_Firstname, Employee\_Birthdate, Employee\_Gender, Employee\_Email, Employee\_Phone, Employee\_Address, Employee\_Zip, Employee\_City, Employee\_State, Employee\_Salary, Employee\_Position) VALUES (3, '684-754-990', 'joyner', 'delilah', '1972-09-16', 'm', 'Deli.JOY5182@gmail.com', '(763) 937-3965', '9663 ob dan ryan', '80277', 'lakewood', 'co', 5278, 'Supervisor');

INSERT INTO Dim\_Employee (Employee\_Id, Employee\_SSN, Employee\_Lastname, Employee\_Firstname, Employee\_Birthdate, Employee\_Gender, Employee\_Email, Employee\_Phone, Employee\_Address, Employee\_Zip, Employee\_City, Employee\_State, Employee\_Salary, Employee\_Position) VALUES (4, '328-874-858', 'hampton', 'hana', '1981-02-03', 'm', 'Ha.HAMPTO4382@mail2web.com', '(304) 706-7545', '2969 deming', '31313', 'savannah', 'ga', 4658, 'Cashier');

INSERT INTO Dim\_Employee (Employee\_Id, Employee\_SSN, Employee\_Lastname, Employee\_Firstname, Employee\_Birthdate, Employee\_Gender, Employee\_Email, Employee\_Phone, Employee\_Address, Employee\_Zip, Employee\_City, Employee\_State, Employee\_Salary, Employee\_Position) VALUES (5,'363-130-194', 'flynn', 'abbigail', '1994-07-04', 'm', 'Abbig.FLY6680@mail2web.com', '(972) 447-4596', '2985 ob dan ryan', '48871', 'lansing', 'mi', 4659, 'Cashier');

INSERT INTO Dim\_Employee (Employee\_Id, Employee\_SSN, Employee\_Lastname, Employee\_Firstname, Employee\_Birthdate, Employee\_Gender, Employee\_Email, Employee\_Phone, Employee\_Address, Employee\_Zip, Employee\_City, Employee\_State, Employee\_Salary, Employee\_Position) VALUES (6, '377-542-826', 'oneal', 'zaiden', '1976-05-18', 'm', 'Zaiden.ON1961@mail2web.com', '(812) 508-4906', '4982 luella', '95305', 'modesto', 'ca', 5858, 'Manager');

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

Customer\_Id [INT] NOT NULL PRIMARY KEY,

Customer\_SSN [nvarchar](50) NOT NULL,

Customer\_Lastname [nvarchar](50) NOT NULL,

Customer\_Firstname [nVARCHAR] (50) NOT NULL,

Customer\_Age [INT] NOT NULL,

Customer\_Gender [NVARCHAR] (50) NOT NULL,

Customer\_Email [NVARCHAR] (50) NOT NULL,

Customer\_Phone [nvarchar](50) NOT NULL,

Customer\_Address [NVARCHAR] (50) NOT NULL,

Customer\_Zip [int] NOT NULL,

Customer\_City [NVARCHAR] (50) NOT NULL,

Customer\_State [VARCHAR] (50) NOT NULL

)

INSERT INTO Dim\_Customer VALUES

(1, '640-739-331','sweeney', 'abdiel', 61, 'm', 'Abdi.SWE3222@gmail.com', '(440) 678-0296', '6515 avenue k', '48312', 'sterling heights', 'michigan'),

(2, '967-415-725','delgado', 'asia', 28, 'm', 'As.DEL3467@mail2web.com', '(224) 793-6141', '323 ogallah', '92818', 'anaheim', 'california'),

(3, '123-788-538', 'chapman', 'kayla', 60, 'f', 'Ka.CHAPMAN6294@hushmail.com', '(609) 106-7048', '4502 artesian', '15651', 'pittsburgh', 'pennsylvania'),

(4, '553-991-446', 'mack', 'kallie', 40, 'm', 'Kalli.MA7941@gmail.com', '(603) 621-9708', '1741 london', '72748', 'fayetteville', 'north carolina'),

(5, '961-515-413','levine', 'mara', 42, 'm', 'Ma.LEV2307@live.com', '(484) 232-1424', '5887 hillock', '29402 ', 'charleston', 'south carolina'),

(6, '085-224-132', 'reilly', 'keyla', 35, 'f', 'Keyl.REILLY4085@hushmail.com', '(775) 180-1724', '382 lsd sb stevenson ob', '37553', 'knoxville', 'tennessee'),

(7, '706-956-751','mathis', 'august', 63, 'm', 'August.MATHIS7741@live.com', '(657) 533-2858', '6066 kewanee', '50649', 'montpelier', 'vermont'),

(8, '675-714-302','tyson', 'jacqueline', 25, 'm', 'Jacqueline.TYSON7863@yahoo.com', '(304) 643-1086', '9103 columbus lower', '37489', 'chattanooga', 'tennessee'),

(9, '911-144-729','figueroa', 'ariel', 33, 'f', 'Ariel.FIGUERO1233@mail2web.com', '(319) 694-5097', '3642 52nd', '79338', 'el paso', 'texas'),

(10, '586-185-435', 'sanders', 'samiyah', 72, 'f', 'Sami.SANDERS5686@gmail.com', '(626) 855-7603', '6972 drew', '71123', 'shreveport', 'louisiana');

CREATE TABLE Dim\_Date(

Date\_Key INTEGER NOT NULL PRIMARY KEY

,Date\_Year INTEGER NOT NULL

,Date\_Quarter VARCHAR(2) NOT NULL

,Date\_Season VARCHAR(6) NOT NULL

,Date\_Month INTEGER NOT NULL

,Date\_Monthname VARCHAR(3) NOT NULL

,Date\_Day INTEGER NOT NULL

)

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (1,2018,'Q1','winter',1,'Jan',1);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (2,2018,'Q1','winter',2,'Feb',8);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (3,2018,'Q1','spring',3,'Mar',13);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (4,2018,'Q1','spring',3,'Mar',28);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (5,2018,'Q2','spring',4,'Apr',6);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (6,2018,'Q2','spring',4,'Apr',8);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (7,2018,'Q2','spring',4,'Apr',10);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (8,2018,'Q2','spring',5,'May',11);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (9,2018,'Q2','spring',5,'May',15);

INSERT INTO Dim\_Date(Date\_Key,Date\_Year,Date\_Quarter,Date\_Season,Date\_Month,Date\_Monthname,Date\_Day) VALUES (10,2018,'Q2','summer',6,'Jun',15);

SELECT \* FROM Dim\_Customer

SELECT \* FROM Dim\_Employee

SELECT \* FROM Dim\_Product

SELECT \* FROM Dim\_Date

CREATE TABLE[dbo].[Fact\_Sales](

Transaction\_Id [INT] NOT NULL,

Product\_Id [INT] NOT NULL ,

Employee\_Id [INT] NOT NULL ,

Customer\_Id [INT] NOT NULL ,

Date\_Key [INT] NOT NULL ,

Quantity [INT] NOT NULL ,

Cost decimal(10,2) NOT NULL ,

UnitPrice decimal(10,2) NOT NULL ,

Amount decimal(10,2) NOT NULL ,

Sales\_Totalamount decimal(10,2) NOT NULL ,

Sales\_Pay\_Method VARCHAR(100) NOT NULL,

CONSTRAINT Fact\_Sales\_C FOREIGN KEY (Customer\_Id) REFERENCES Dim\_Customer(Customer\_Id),

CONSTRAINT Fact\_Sales\_P FOREIGN KEY (Product\_Id) REFERENCES Dim\_Product(Product\_Id),

CONSTRAINT Fact\_Sales\_D FOREIGN KEY (Date\_Key) REFERENCES Dim\_Date (Date\_Key),

CONSTRAINT Fact\_Sales\_E FOREIGN KEY (Employee\_Id) REFERENCES Dim\_Employee(Employee\_Id),

PRIMARY KEY (Transaction\_Id, Customer\_Id,Product\_Id,Date\_Key,Employee\_Id)

)

INSERT INTO [dbo].[Fact\_Sales] VALUES

(901,2,3,2,3,2,0.3,0.37,0.74,7.94,'Credit Card'),

(902,3,3,2,3,1,5.76,7.2,7.2,7.94,'Credit Card'),

(903,4,4,2,5,3,0.62,0.78,2.34,2.34,'Cash'),

(904,1,1,1,1,3,1.92,2.4,7.2,7.2,'Credit Card'),

(905,5,1,1,1,4,0.71,0.89,3.56,3.56,'Cash'),

(906,6,2,4,2,2,0.47,0.59,1.18,1.18,'Debit Card'),

(907,7,5,5,6,3,0.28,0.35,1.05,1.05,'Cash'),

(908,8,6,6,7,4,0.68,0.85,3.4,3.4,'Debit Card'),

(909,9,6,7,4,10,0.23,0.29,2.9,2.9,'Cash'),

(910,10,4,5,9,2,3.04,3.8,7.6,7.6,'Credit Card'),

(911,10,5,9,8,3,3.04,3.8,11.4,11.4,'Credit Card');

SELECT \* FROM Fact\_Sales

-- DROP TABLE Fact\_Sales