TRUNCATE TABLE DBW.PRODUCT\_DIM;

--ALTER TABLE dbw.STORE\_DIM

--ADD STORE\_POSTAL\_CODE VARCHAR(7);

ALTER TABLE DBW.CUSTOMER\_DIM

ALTER COLUMN EMAIL VARCHAR(50) NOT NULL;

exec sp\_columns STORE\_dim;

drop table if exists dbw.store\_dim

CREATE TABLE dbw.STORE\_DIM(

STORE\_ID INT IDENTITY(1, 1) PRIMARY KEY NOT NULL,

STORE\_NUMBER NUMERIC (4) NOT NULL,

STORE\_NAME VARCHAR(20) NOT NULL,

STORE\_ADDRESS VARCHAR(50) NOT NULL,

STORE\_CITY VARCHAR(20) NOT NULL,

STORE\_POSTAL\_CODE VARCHAR(10) NOT NULL,

STORE\_PROVINCE VARCHAR (10) NOT NULL,

STORE\_MANAGER NUMERIC (4) NOT NULL

);

INSERT INTO DBW.STORE\_DIM (STORE\_NUMBER, STORE\_NAME, STORE\_ADDRESS, STORE\_CITY, STORE\_POSTAL\_CODE, STORE\_PROVINCE, STORE\_MANAGER)

VALUES

(1, 'ZALE CUSTOM MERCH', '2 EASTDALE DRIVE', 'TORONTO', 'M9W 2P9', 'ONTARIO', 101),

(2, 'ZALE CUSTOM MERCH', '122 GLENDALE BLVD', 'OTTAWA', 'K0W 3T7', 'ONTARIO', 102),

(3, 'ZALE CUSTOM MERCH', '2934 KALE AVE', 'WINDSOR', 'NOR 1K0', 'ONTARIO', 103),

(4, 'ZALE CUSTOM MERCH', '3 EASTGROVE ROAD', 'BURLINGTON', 'L9T 2P9', 'ONTARIO', 104),

(5, 'ZALE CUSTOM MERCH', '1221 PINE BLVD', 'STRATFORD', 'N0K 6T7', 'ONTARIO', 105);

INSERT INTO DBW.PROMOTION\_DIM(PROMOTION\_NAME,PROMOTION\_DESC,PROMOTION\_START\_DATE,PROMOTION\_END\_DATE,AD\_TYPE,COUPON\_TYPE,MEDIA\_OUTLET,DISCOUNUT\_AMOUNT )

VALUES

('END OF SEASON SALE', '20% OFF', '2020-01-15', '2020-01-30', 'STORE AD', 'ENDSES20OFF', 'STORE', 0.2),

('FAMILY DAY SALE', '10% OFF', '2020-02-13', '2020-01-20', 'DISPLAY', 'FAM10','TELEVISION', 0.1),

('MARCH BREAK SALE', '15% OFF', '2020-03-10', '2020-03-10', 'PAID TV AD', 'MARCH-BRK15','TELEVISION', 0.15),

('ESTER SALE', '15%OFF', '2020-04-20', '2020-04-02', 'SOCIAL MEDIA AD', 'BUNNY15', 'SOCIAL MEDIA', 0.15),

('GRADUATION SALE', '20%', '2020-05-01', '2020-07-01','SOCIAL MEDIA/PAID TV', 'GRA20', 'TV/SOCIAL MEDIA', 0.20),

('CANADA DAY SALE','20%', '2020-06-25', '2020-07-03', 'OUTDOOR AD', 'OHCAN20', 'OUT DOOR/TV', 0.20),

('SUMMER MADNESS', '25% OVER 50', '2020-07-30', '2020-08-15', 'PAID RADIO AD', 'SUM2020', 'RADIO', 0.25),

('BACK-TO-SCHOOL', '20%', '2020-08-20', '2020-09-05', 'PRINT ADD', 'BTS20','BILLBOARD', 0.20),

('THANKSGIVING SALE', '15% OVER 100', '2020-10-01', '2020-11-01', 'BROADCAST', '15OFF', 'TELEVISION', 0.1),

('CHRISTMAS DEAL', '30% OFF OVER 100', '2020-12-15', '2020-12-20', 'MEDIA', 'MERRY30', 'TV/RADIO', 0.30),

('BOXING DAY SALE', '50% OFF', '2020-12-26', '2020-12-28', 'PAID MEDIA', 'BOXIN50', 'TV/RADIO', 0.50);

UPDATE DBW.PRODUCT\_DIM

SET BRAND\_GROUP\_DESC = 'MASK'

WHERE BRAND\_GROUP\_DESC = 'JERSEY';

drop table if exists DBW.DEFINITION

CREATE TABLE DBW.DEFINITION

(

TABLE\_NAME VARCHAR(30) NOT NULL,

COLUMN\_NAME VARCHAR(20) NOT NULL,

[DESCRIPTION] VARCHAR(150) NOT NULL,

COMMENTS VARCHAR(150) NULL

);

select \* from dbw.

INSERT INTO dbw.DEFINITION(TABLE\_NAME, COLUMN\_NAME, DESCRIPTION, COMMENTS)

VALUES

("AGE\_DIM","AGEID","UNIQUE ID TO NUMBER THE AGE GROUP OF THE PRODUCT THAT'S BEING SOLD", "NO COMMENT"),

("STORE\_DIM","STORE\_ID","UNIQUE ID TO NUMBER A SP STORE AROUND ONTARIO", "NO COMMENT"),

("CUSTOMER\_DIM","CUSTOMER\_ID","UNIQUE NUMBER TO IDENTITFY THE CUSTOMER WHO MADE A PURCHASE", "NO COMMENT"),

("DATE\_DIM","DATE\_ID","UNIQUE NUMBER TO IDENTITFY THE DATE THE PURCHASE WAS MADE", "NO COMMENT"),

("EMPLOYEE\_DIM","EMPLOYEE\_ID","UNIQUE NUMBER TO IDENTITFY THE NAME OF THE EMPLOYEE", "NO COMMENT"),

("PAYMENT\_DIM","PAYMENT\_ID","UNIQUE NUMBER TO IDENTITFY THE TYPE OF PAYMENT FOR THE PURCHASE", "NO COMMENT"),

("POPULATION\_DIM","POPULATION\_ID","UNIQUE NUMBER TO IDENTITFY THE POPULATION OF THE SPECIFIC YEAR", "NO COMMENT"),

("PRODUCT\_DIM","PRODUCT\_ID","UNIQUE NUMBER TO IDENTITFY THE PRODUCT THAT WAS PURCHASE BY THE CUSTOMER", "NO COMMENT"),

("PROMOTION\_DIM","PROMOTION\_ID","UNIQUE NUMBER TO IDENTITFY THE TYPE OF PROMOTION", "TV PROMOTION IS THE MOST COSTLY"),

("MALE\_BABY\_NAMES\_REF","FREQUENCY","THIS IS A REFERENCE TABLE FOR POPULAR MALE BABY NAME", "NO COMMENT"),

("FEMALE\_BABY\_NAMES\_REF","FREQUENCY","THIS IS A REFERENCE TABLE FOR POPULAR FEMALE BABY NAME", "NO COMMENT"),

("AVGLIFESPAN","FREQUENCY","THIS IS A REFERENCE TABLE TO TRACK THE AVERAGE LIFE SPAN FOR ENCH INDIVIUAL", "NO COMMENT"),

SELECT \* FROM DBW.POPULATION\_REF

DROP TABLE IF EXISTS DBW.DATE\_DIM

CREATE TABLE dbw.DATE\_DIM (

DATEID int IDENTITY(1, 1) PRIMARY KEY NOT NULL,

[DATE] datetime NOT NULL,

[YEAR] int NOT NULL,

[MONTH] int NOT NULL,

[DAY] int NOT NULL,

[FISCALQUARTER] varchar(5) NOT NULL,

)

-- declare variables to hold the start and end date

DECLARE @StartDate datetime

DECLARE @EndDate datetime

--- assign values to the start date and end date we

-- want our reports to cover (this should also take

-- into account any future reporting needs)

SET @StartDate = '2020-01-01'

SET @EndDate = '2020-12-31'

-- using a while loop increment from the start date

-- to the end date

DECLARE @LoopDate datetime

SET @LoopDate = @StartDate

WHILE @LoopDate <= @EndDate

BEGIN

-- add a record into the date dimension table for this date

INSERT INTO DBW.DATE\_DIM VALUES (

@LoopDate,

Year(@LoopDate),

Month(@LoopDate),

Day(@LoopDate),

CASE WHEN Month(@LoopDate) IN (1, 2, 3) THEN 'Q1'

WHEN Month(@LoopDate) IN (4, 5, 6) THEN 'Q2'

WHEN Month(@LoopDate) IN (7, 8, 9) THEN 'Q3'

WHEN Month(@LoopDate) IN (10, 11, 12) THEN 'Q4'

END

)

-- increment the LoopDate by 1 day before

-- we start the loop again

SET @LoopDate = DateAdd(d, 1, @LoopDate)

END

-- now we have inserted the data we can check how it appears in our table

SELECT TOP 100 \* FROM DBW.DATE\_DIM;

SELECT \* FROM DBW.EMPLOYEES\_DIM;

SELECT \* FROM DBW.CUSTOMER\_DIM;

SELECT \* FROM DBW.DATE\_DIM;

SELECT \* FROM DBW.PRODUCT\_DIM;

SELECT \* FROM DBW.AGE\_DIM;

SELECT \* FROM DBW.PROMOTION\_DIM;

SELECT \* FROM DBW.STORE\_DIM;

SELECT \* FROM DBW.PAYMENT\_DIM;

SELECT \* FROM DBW.SALES\_FACT;

drop table if exists DBW.SALES\_FACT

create TABLE dbw.SALES\_FACT

(

SALES\_ID int IDENTITY(1, 1) PRIMARY KEY NOT NULL,

PRODUCT\_KEY INT FOREIGN KEY REFERENCES DBW.PRODUCT\_DIM(PRODUCT\_KEY),

PROMOTION\_KEY INT FOREIGN KEY REFERENCES DBW.PROMOTION\_DIM(PROMOTION\_KEY),

PAYMENT\_KEY INT FOREIGN KEY REFERENCES DBW.PAYMENT\_DIM(PAYMENT\_TYPE\_KEY),

DATEID INT FOREIGN KEY REFERENCES DBW.DATE\_DIM(DATEID),

STORE\_ID INT FOREIGN KEY REFERENCES DBW.STORE\_DIM(STORE\_ID),

EMPLOYEE\_ID INT FOREIGN KEY REFERENCES DBW.EMPLOYEES\_DIM(EMPLOYEE\_ID),

CUSTOMER\_ID INT FOREIGN KEY REFERENCES DBW.CUSTOMER\_DIM(CUSTOMER\_ID),

AGE\_GROUP INT FOREIGN KEY REFERENCES dbw.AGE\_DIM(AGEID),

PURCHASE\_TRANSACTION\_ID varchar(20) not null,

CUSTOMER\_NAME VARCHAR(20) not null,

GENDER varchar(15) not null,

ITEM\_SCAN\_TIMESTAMP DATE,

TOTAL\_UNIT\_SOLD INT not null,

SALES\_DOLLAR\_AMOUNT DECIMAL(5, 2) not null,

SALES\_VOLUME INT not null ,

SALES\_REVENUE DECIMAL(8, 2) not null,

SALES\_PROFIT DECIMAL(8, 2) not null,

TAX\_DOLLAR\_AMOUNT DECIMAL(8,2) not null,

PROMOTION\_DOLLAR\_AMOUNT DECIMAL(8, 3) not null

);

INSERT INTO DBW.SALES\_FACT (PRODUCT\_KEY ,PROMOTION\_ID,PAYMENT\_KEY ,DATEID ,STORE\_ID ,EMPLOYEE\_ID ,CUSTOMER\_ID ,AGE\_GROUP,PURCHASE\_TRANSACTION\_ID ,CUSTOMER\_NAME ,GENDER ,ITEM\_SCAN\_TIMESTAMP ,TOTAL\_UNIT\_SOLD ,SALES\_DOLLAR\_AMOUNT ,SALES\_VOLUME ,SALES\_REVENUE,SALES\_PROFIT ,TAX\_DOLLAR\_AMOUNT ,PROMOTION\_DOLLAR\_AMOUNT )

VALUES

(1, NEXT VALUE FOR DBW.PROMOTION\_SEQ ,NEXT VALUE FOR DBW.PAYMENT\_SEQ, 1, 1, NEXT VALUE FOR DBW.EMPLOYEE\_SEQ, NEXT VALUE FOR DBW.CUSTOMER\_SEQ, 1, 'TRANS1001', 'PIT RAN', 'M',

CREATE SEQUENCE DBW.CUSTOMER\_SEQ

START WITH 10001

INCREMENT BY 1

NO CACHE

NO CYCLE;

CREATE SEQUENCE DBW.PAYMENT\_SEQ

START WITH 10014

INCREMENT BY 1

NO CACHE

NO CYCLE;

CREATE SEQUENCE DBW.PROMOTION\_SEQ

START WITH 201

INCREMENT BY 1

NO CACHE

NO CYCLE;

CREATE SEQUENCE DBW.EMPLOYEE\_SEQ

START WITH 100

INCREMENT BY 1

NO CACHE

NO CYCLE;

CREATE SEQUENCE DBW.PRODUCT\_SEQ

START WITH 1

INCREMENT BY 1

NO CACHE

NO CYCLE;

CREATE TABLE DBW.MALE\_BABY\_NAMES\_REF

(

[YEAR] INT NOT NULL,

[NAME] VARCHAR(20),

FREQUENCY INT

);

CREATE TABLE DBW.FEMALE\_BABY\_NAMES\_REF

(

[YEAR] INT NOT NULL,

[NAME] VARCHAR(20),

FREQUENCY INT

);

drop table if exists dbw.population\_ref

CREATE TABLE DBW.POPULATION\_REF

(

[CITY] VARCHAR(150),

[YEAR\_2016] int NOT NULL,

[YEAR\_2017] int NOT NULL,

[YEAR\_2018] int NOT NULL,

[YEAR\_2019] int NOT NULL,

[YEAR\_2020] int NOT NULL

);

drop table dbw.avglifespan\_ref

CREATE TABLE DBW.AVGLIFESPAN\_REF

(

BIRTH\_YEAR varchar(20) not null,

PROVINCE VARCHAR(130) not null,

age\_group varchar(50) not null,

[GENDER] varCHAR(50) not null,

LIFE\_EXPECTANCY varchar(50)

);

select \* from DBW.AVGLIFESPAN\_REF

insert into DBW.AVGLIFESPAN\_REF

select ref\_date,

geo,

age\_group,

sex,

character

from DBW.STAGE\_TABLE\_AVGLIFESPAN\_TABLE

where geo like '%ontario%'

and age\_group like '%age 65%';

SELECT \* FROM DBW.STAGE\_TABLE\_AVGLIFESPAN\_TABLE where age\_group like'%age 65%' and geo like

'%ontario%'

drop table if exists dbw.Stage\_table\_AVGLIFESPAN\_table

Create table dbw.Stage\_table\_AVGLIFESPAN\_table

(

[REF\_DATE] varchar(100),

[GEO] varchar(200),

[DGUID] varchar(250),

Age\_group varchar(200),

[SEX] varchar(250),

[CHARACTER] varchar(250),

[UOM] varchar(250)

);

bulk insert dbw.Stage\_table\_AVGLIFESPAN\_table

from 'C:\Users\NikkiP\Downloads\AVGLIFESPAN1.CSV'

with

(

firstrow = 2,

--format = 'CSV',

--datafiletype = 'char',

fieldterminator = ',',

rowterminator = '0x0a',

lastrow = 27541

)

drop table if exists dbw.stage\_table\_population\_table

Create table dbw.stage\_table\_population\_table

(

[City] varchar(100),

[YEAR\_2016] varchar(20),

[YEAR\_2017] varchar(20),

[YEAR\_2018] varchar(20),

[YEAR\_2019] varchar(20),

[YEAR\_2020] varchar(20)

);

drop table if exists dbw.Stage\_table\_Male

Create table dbw.Stage\_table\_Male

(

[Year] int,

[Name] varchar(50),

Frequency int

);

drop table if exists dbw.Stage\_table\_female

Create table dbw.Stage\_table\_female

(

[Year] int,

[Name] varchar(50),

Frequency int

);

bulk insert dbw.Stage\_table\_female

from 'C:\Users\NikkiP\Downloads\ontario\_top\_baby\_names\_female\_1917-2018\_en\_fr.csv'

with

(

firstrow = 2,

format = 'CSV',

--fieldterminator = '||',

rowterminator = '\n'

)

bulk insert dbw.Stage\_table\_male

from 'C:\Users\NikkiP\Downloads\ontario\_top\_baby\_names\_male\_1917-2018\_en\_fr.csv'

with

(

firstrow = 2,

format = 'CSV',

--fieldterminator = '||',

rowterminator = '\n'

)

bulk insert dbw.stage\_table\_population\_table

from 'C:\Users\NikkiP\Downloads\population-eng.csv'

with

(

firstrow = 12,

format = 'CSV',

fieldterminator = ',',

rowterminator = '\n',

lastrow =186

)

bulk insert dbw.AVGLIFESPAN\_table

from 'C:\Users\NikkiP\Downloads\AVGLIFESPAN.CSV'

with

(

firstrow = 2,

--format = 'CSV',

--datafiletype = 'char',

fieldterminator = '/',

rowterminator = '0x0a'

)

select COUNT(\*) from dbw.male\_baby\_names\_ref

insert into dbw.population\_ref

select city,

convert (int, replace(YEAR\_2016, ',','')) as Year\_2016,

convert (int, replace(YEAR\_2017, ',',''))as Year\_2017,

convert (int, replace(YEAR\_2018, ',',''))as Year\_2018,

convert (int, replace(YEAR\_2019, ',',''))as Year\_2019,

convert (int, replace(YEAR\_2020, ',',''))as Year\_2020

from dbw.stage\_table\_population\_table

where city like '%ontario%';

INSERT INTO DBW.MALE\_BABY\_NAMES\_REF

SELECT YEAR, NAME, FREQUENCY

FROM DBW.Stage\_table\_male

select \* from dbw.stage\_table\_population\_table where city like '%ontario%'

select SUM(YEAR\_2016) from dbw.POPULATION\_ref

truncate table dbw.population\_ref

select sum(2016) from dbw.stage\_table\_population\_table

(9, 'RING MAGNET', 'MAGNET', 'DEBIT', 90.00),

(1, 'BASKETBALL JERSEY', 'CLOTHING', 'DEBIT', 29.99),

(2, 'GOLF CLUB', 'SPORTING', 'DEBIT', 50.00),

(3, 'GRADUATION PLAQUES', 'PLAQUE', 'CREDIT', 179.97),

(1, 'LICENSE PLATE', 'PLATE', 'DEBIT', 29.99),

(3, 'RETIREMENT PLAQUE', 'PLAQUE', 'CREDIT', 149.97),

(6, 'SOFTBALL CAPS', 'HAT', 'CREDIT', 155.94),

(5, 'FACE MASK', 'CLOTHING', 'CREDIT', 34.95),

(6, 'CANDLE', 'ACCENTS', 'DEBIT', 92.94),

(2, 'MUGS', 'HOUSE-WARE', 'DEBIT', 19.98),

(3, 'PHONE-CASE', 'ACCESSORIES', 'DEBIT', 38.96),

(1, 'ROBE', 'CLOTHING', 'CREDIT', 19.99),

(7,' BASEBALL CAPS', 'CLOTHING-ACCESSORIES','CREDIT', 153.93),

(4, 'PENS', 'LITERATURE', 'DEBIT', 12.00),

(150, 'HANDBAG', 'CLOTHING', 'CREDIT', 8998.5),

(500, 'T-SHIT', 'CLOTHING', 'DEBIT', 4995.00),

(200, 'BEDROOM DOOR SIGN', 'SIGNS', 'DEBIT', 3998.00),

(100, 'HELMET', 'SPORTING', 'CREDIT', 3999.00),

(120, 'HOCKEY JERSEY', 'SPORTING', 'DEBIT', 4799.80);

(1000, 'BAR MAGNET', 'MAGNET', 'DEBIT', 5000.00),

--SET IDENTITY\_INSERT DBW.DATE\_DIM ON

Declare @enddate datetime,

@startdate datetime,

@LoopDate date

set @startdate = '2020-01-01 '

set @enddate = '2025-12-31'

set @LoopDate = @startdate

while @LoopDate <= @enddate

SET @LoopDate = DateAdd(d, 1, @LoopDate)

;With DateSequence( [Date] ) as

(

Select @startdate as [Date]

union all

Select dateadd(day, 1, [Date])

from DateSequence

where Date < @enddate

)

insert into DBW.DATE\_DIM

Select

CONVERT(INT,[Date],112) as ID,

[Date] as [Date],

-- DATEPART(DAY,[Date]) as [Day],

DATENAME(dw, [Date]) as [DayOfWeek],

DATEPART(DAYOFYEAR,[Date]) as [DayOfYear],

DATEPART(WEEK,[Date]) as [WeekOfYear],

DATEPART(WEEK,[Date]) +

1 - DATEPART(WEEK,CAST(DATEPART(MONTH,[Date]) AS VARCHAR)

+ '/1/' + CAST(DATEPART(YEAR,[Date]) AS VARCHAR)) as [WeekOfMonth],

DATEPART(MONTH,[Date]) as [Month],

DATENAME(MONTH,[Date]) as [MonthName],

CASE WHEN Month(@LoopDate) IN (1, 2, 3) THEN 'Q1'

WHEN Month(@LoopDate) IN (4, 5, 6) THEN 'Q2'

WHEN Month(@LoopDate) IN (7, 8, 9) THEN 'Q3'

WHEN Month(@LoopDate) IN (10, 11, 12) THEN 'Q4'

END ,

-- DATEPART(QUARTER,[Date]) as [Quarter],

DATEPART(YEAR,[Date]) as [Year]

from DateSequence option (MaxRecursion 0)

17056706831

Attension IPS

RECORD NUMBER 654391

VOID CHECK

INSERT INTO DBW.SALES\_FACT

(

SALES\_PRODUCT\_KEY, --SALES\_PRODUCT\_KEY ,

SALES\_PROMOTION\_KEY, --SALES\_PROMOTION\_KEY,

SALES\_PAYMENT\_KEY, --SALES\_PAYMENT\_KEY,

SALES\_DATEID, --SALES\_DATEID,

SALES\_STORE\_ID, --SALES\_STORE\_ID,

SALES\_EMPLOYEE\_ID, --SALES\_EMPLOYEE\_ID ,

SALES\_CUSTOMER\_ID, --SALES\_CUSTOMER\_ID,

SALES\_AGE\_GROUP, --SALES\_AGE\_GROUP,

SALES\_PURCHASE\_TRANSACTION\_ID ,

SALES\_CUSTOMER\_NAME ,

SALES\_GENDER ,

SALES\_ITEM\_SCAN\_TIMESTAMP ,

SALES\_TOTAL\_UNIT\_SOLD ,

SALES\_DOLLAR\_AMOUNT ,

SALES\_VOLUME,

SALES\_REVENUE,

SALES\_PROFIT,

TAX\_DOLLAR\_AMOUNT ,

PROMOTION\_DOLLAR\_AMOUNT

)