**Name – Davender Singh**

**Course – DBW624V1A**

**Professor – Les King**

CREATE DATABASE RetailDataWarehouse;

GO

USE RetailDataWarehouse;

CREATE TABLE Store (

StoreID INT PRIMARY KEY,

StoreName NVARCHAR(50),

StoreAddress NVARCHAR(255),

StoreCity NVARCHAR(50),

StoreProvince NVARCHAR(50)

);

CREATE TABLE Product (

ProductID INT PRIMARY KEY,

ProductName NVARCHAR(100),

ProductDescription NVARCHAR(255),

ProductGroup NVARCHAR(50),

ProductType NVARCHAR(50),

ListPrice DECIMAL(10,2),

Cost DECIMAL(10,2)

);

CREATE TABLE PaymentType (

PaymentTypeID INT PRIMARY KEY,

PaymentTypeDescription NVARCHAR(100),

PaymentTypeCategory NVARCHAR(50)

);

CREATE TABLE Date (

DateID INT PRIMARY KEY,

Date DATE,

FiscalQuarter INT,

Year INT

);

CREATE TABLE Employee (

EmployeeID INT PRIMARY KEY,

EmployeeName NVARCHAR(100),

EmployeeTitle NVARCHAR(100),

EmployeeGender CHAR(1) CONSTRAINT CHK\_Gender CHECK (EmployeeGender IN ('M', 'F'))

);

CREATE TABLE Promotion (

PromotionID INT PRIMARY KEY,

PromotionType NVARCHAR(50),

PromotionStartDate DATE,

PromotionEndDate DATE,

DiscountAmountOrPercentage NVARCHAR(50) -- Using NVARCHAR to accommodate either a fixed amount or a percentage

);

CREATE TABLE ProductGroup (

ProductGroupID INT PRIMARY KEY,

ProductGroupName NVARCHAR(100),

ProductGroupDescription NVARCHAR(255)

);

CREATE TABLE Customer (

CustomerID INT PRIMARY KEY,

FirstName NVARCHAR(50),

LastName NVARCHAR(50),

CustomerAge INT,

CustomerGender CHAR(1) CONSTRAINT CHK\_CustomerGender CHECK (CustomerGender IN ('M', 'F')),

CustomerAddress NVARCHAR(255),

CustomerCity NVARCHAR(50),

CustomerEmail NVARCHAR(100),

CustomerPhoneNumber NVARCHAR(20)

);

CREATE TABLE Definition (

TableName NVARCHAR(100),

ColumnName NVARCHAR(100),

Description NVARCHAR(MAX),

Comments NVARCHAR(MAX)

);

CREATE TABLE RetailSalesFact (

FactID INT IDENTITY(1,1) PRIMARY KEY,

ProductID INT,

StoreID INT,

DateID INT,

CustomerID INT,

PromotionID INT,

ProductGroupID INT,

PaymentTypeID INT,

EmployeeID INT,

PurchaseTransactionID INT,

SalesVolume DECIMAL(10, 2),

SalesRevenue DECIMAL(10, 2),

SalesProfit DECIMAL(10, 2),

PaymentMethod VARCHAR(50),

MarketingCampaignFlag BIT,

FOREIGN KEY (ProductID) REFERENCES Product(ProductID),

FOREIGN KEY (StoreID) REFERENCES Store(StoreID),

FOREIGN KEY (DateID) REFERENCES Date(DateID),

FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),

FOREIGN KEY (PromotionID) REFERENCES Promotion(PromotionID),

FOREIGN KEY (ProductGroupID) REFERENCES ProductGroup(ProductGroupID),

FOREIGN KEY (PaymentTypeID) REFERENCES PaymentType(PaymentTypeID),

FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID)

);



















