1. Acquire the spreadsheet of stocks and prices from Canvas.
2. Observe the following data:TickerSymbol, Industry, TradeDate, ST\_Open, ST\_High, ST\_Low, ST\_Close, Volume
3. Import the data into SQL Server and change the data types to be appropriate and defend your choices. Note that at this point you have data in a single table.

Name the table “StockData.”

1. Import the second table about the companies listed in table 1. Include attributes such as company name, address, industry and five additional attributes into this table.
2. Create a relationship between these two tables on the common attribute "ticker symbol."
3. Create a calendar table from the code listed below to include all days from Jan. 1, 1900 to Dec. 31, 2050.

The calendar attributes you need are

ActualDate, MonthName, DayNumber, YearNumber, DayOfWeek and DayType.

1. Create relationships from date attributes in the StockData table to the calendar table.

Make sure you understand the primary key and foreign key relationship.

1. Create five constraints on any of the three tables in any combination.
2. Make an attractive cover page with your name, the assignment due date, and the assignment number.
3. Deliverables - Prove that you acquired your data and that it is in SQL Server in tables.
4. Prove that you have three tables and the data types that are in those tables.
5. Prove that you created the constraints.
6. Prove that you created relationships between the three tables.

**Calendar Table Code:**

CREATE TABLE dbo.Calendar

(

ActualDate DATETIME NOT NULL PRIMARY KEY,

MonthName CHAR(15) NULL,

DayNumber INT NULL,

YearNumber INT NULL,

DayOfWeek CHAR(15) NULL

CHECK (DayOfWeek IN ('Sunday', 'Monday', 'Tuesday',

'Wednesday','Thursday','Friday','Saturday')),

DayType CHAR(15) NULL

CHECK ( DayType IN ('Business','Weekend','Holiday')),

)

GO

SET NOCOUNT ON

DECLARE @Counter INT

DECLARE @ActualDate DATETIME

DECLARE @FirstDate DATETIME

SET @Counter = 1

SET @FirstDate = '1/1/1900'

SET @ActualDate = @FirstDate

WHILE @Counter < 55153

BEGIN

INSERT INTO Calendar(ActualDate)

values(@ActualDate)

SET @ActualDate = DATEADD(day, @Counter, @FirstDate)

SET @Counter = @Counter + 1

END

GO

UPDATE Calendar

SET DayOfWeek = DateName(DW, ActualDate)

GO

UPDATE Calendar

SET DayNumber = DateName(DD, ActualDate)

GO

UPDATE Calendar

SET MonthName = DateName(MM, ActualDate)

GO

UPDATE Calendar

SET YearNumber = DateName(YY, ActualDate)

GO

UPDATE Calendar

SET DayType = 'Business'

WHERE DayOfWeek <> 'Saturday' AND DayOfWeek <> 'Sunday'

GO

UPDATE Calendar

SET DayType = 'Weekend'

WHERE DayOfWeek ='Saturday' OR DayOfWeek = 'Sunday'

GO

UPDATE Calendar

SET DayType = 'Holiday'

WHERE (MonthName ='January' AND DayNumber = 1) OR

(MonthName ='July' AND DayNumber = 4) OR

(MonthName ='December' AND DayNumber = 25)

GO