MSIN 616 Advanced Database Management Fall 2017

## In Class Exercises

* 1. Create a view **TS\_vTop10DJIvolume** based on **TS\_Values** table which shows the dates, ant volumes of DJI for the top 10 dates with the highest volume.
     1. Verify that your vies is correct by selecting all data from the view and an equivalent data set from the **TS\_Values** table.
     2. Write an **INSERT** statement to insert a row into **TS\_Values** table with today’s date, ‘DJI’ ticker, with all the prices equal to the prices on the date with maximal volume, and the volume equal to twice the volume on that date.
     3. Select all data from **TS\_vTop10DJIvolume** view to verify that the new row is returned properly
  2. Create a view **TS\_vSPXvalues** based on **TS\_Values** table which shows all the values for SPX ticker
     1. Write an **UPDATE** statement to update **TS\_vSPXvalues** view which increases the volume traded by a factor of 1.1 on the day when the volume was the lowest.
     2. Verify that your update worked by selecting from **TS\_vSPXvalues** view
     3. Check what happened to the data in the underlying table
  3. Investigate data returned from SLQ Server catalog views
     1. sys.schemas
     2. sys.sequences
     3. sys.tables
     4. sys.views
     5. sys.columns
     6. sys.key\_constraints
     7. sys.foreign\_keys
     8. sys.foreign\_key\_columns
     9. sys.objects
  4. Implement a *most recent* view for **TS\_Values** table as shown in class
     1. Alter **TS\_Values** table by adding **TimeStamp** column
     2. Create the actual view
     3. Insert some modified values for existing dates and show how the selection of data for those dates from the view differs from an equivalent selection form the underlying table