## CS3380 - Lab Exercise 11

### Goals:

1. Understand and write PL/SQL triggers
2. Understand how to manipulate dates in Oracle

### Lab Preparation

1. SSH into Babbage
2. Create and change into **/cs3380/Lab11/**
3. Log into Oracle

**Instructions**

Create a file **triggers.sql** with 2 table definitions, 2 trigger definitions, and 2 sequence definitions.

1. Create a table **UserBlog** (*blogEntryID* INTEGER, username VARCHAR2(20), blogEntryDate DATE, blogEntryTitle VARCHAR2(50), blogEntry VARCHAR(500)). The primary key is <*blogEntryID*> and should be relatively sequenced with a sequence seq\_blogEntryID.
2. Create a table **NewsFeed**(*newsFeedID* INTEGER, feedMessage VARCHAR2(100)). The primary key is <*newsFeedID*> and should be relatively sequenced with a sequence named seq\_newsFeedID.
3. Create a trigger before insertion on **UserBlog** that:
   1. Uses the seq\_blogEntryID sequence to generate a primary key for the new row.
   2. Append the date to start of the blogEntry in the form: “Apr. 20, 2009: Original Entry”
4. Create a trigger after insertion on **UserBlog** that:
   1. Inserts a row into **NewsFeed** using seq\_newsFeedID to generate a primary key.
   2. The feedMessage should be the username then a day description followed by the blogEntryTitle. If the date is today or yesterday, the day description should be “Today” or “Yesterday”. Otherwise, it should be “X days ago”. Examples:
      1. “Brad – Today – Blog Title”
      2. “Brad – Yesterday – Blog Title”
      3. “Brad – 7 Days Ago – Blog Title”

Create a file **statements.sql** with 5 insert statements.

1. Create 5 insert statements into **UserBlog**. You should use at least 2 different usernames. All the blog titles should be different. At least one statement must be today’s date, one yesterday’s date, and one at least 2 days ago.

Create a file **results.txt**.

1. SELECT \* FROM UserBlog; Put these results in results.txt
2. SELECT \* FROM NewsFeed; Put these results in results.txt

Submit **Lab11.tar.gz** containing **triggers.sql**, **statements.sql**, and **results.txt** by 11:59 PM Friday 04/23/09