CMSC 461
Homework 2 - SQL and VMS/RDB
Section 101 - Out September 30, Due October 7
Section 201 - Out September 29, Due October 6

This homework involves using an implementation of SQL (VMS/RDB) on UMBC2. A manual and tutorial for VMS/RDB have been provided earlier. In submitting answers, provide a copy of interactive sessions in which the various values and functions are defined, and in which results are displayed. To do this, you should print out the **SQL_SESSION.LOG** file, which contains the text of your last SQl session. (You may want to use the **PURGE** command to remove older versions.)

Please submit readable output; we do not want to see your mistakes, only final answers. It will help to do a trial run, or to edit the script file once you are done. You may also use a pen to beautify your output and to add a few appropriate comments– in particular, to indicate in a conspicuous color where each question or part question begins and to explain the use and meaning of identifiers where appropriate.

This homework uses the Company datbase from the text. To create your own copy of this database, follow the directions below. These commands should be execute on UMBC2.

1. ```
   ftp umbc8
   cd /tmp/461stuff
   get hw2setup.sql
   bye
   ```
2. Enter SQL. In SQL, type the following

   ```
   CREATE DATABASE ALIAS C FILENAME COMPANY
   ```
3. Change your login.com to have: **ASSIGN COMPANY SQL$DATABASE**
4. Execute the following command: **@LOGIN.COM**
5. To create the company tables, while inside sql say : **@hw2setup**

Note – you can also find this file on the CS Gopher server in the area for this class.

The Assignment

The following problems are from the text. These problems refer to the company database in the text.

1. **Views:** 7.21 b, c.
2. **Select:** 7.13 a, c, d, e, j, k.
   For more complex queries, you may want to create intermediate views to break the problem into smaller parts.
3. **Capabilities of SQL:** 7.14 a, b.
   Note for part b: The question is asking if a single SQL query can be used. If it can't, can view(s) be used?
4. **Insert, delete, update:** 7.15 e, f, k.
   ```