CS1555 Recitation 4 Solution

Objective: To practice SQL DDL (schema evolution)

1. Create a table "t1" with a primary key attribute "a1" of type varchar(10).
   (Before creating the table, please use drop table statement to avoid pre-existing tables with the same name)
   ```
   drop table t1 cascade constraints;
   create table t1 (
           a1 varchar(10) primary key
   );
   ```

2. Add a new column called "a2" of type varchar(5) to "t1".
   ```
   alter table t1 add a2 varchar(5);
   ```

3. Modify "a2" to be of type integer;
   ```
   alter table t1 alter column a2 type integer using a2::integer;
   ```

4. Change the default value of "a2" to be 1.
   ```
   alter table t1 alter column a2 set default 1;
   ```

5. Remove the default value of "a2".
   ```
   alter table t1 alter column a2 drop default;
   ```

6. Add a domain so that the value of "a2" must be in the set of {1,2,3,4,5}.

   ```
   Create domain a2_domain as integer check(value in (1,2,3,4,5));
   ```

   ```
   alter table t1 alter column a2 type a2_domain;
   ```