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

);

1. Add a new column called “a2” of type varchar(5) to “t1”.  
   alter table t1 add a2 varchar(5);
2. Modify “a2” to be of type integer;  
   alter table t1 alter column a2 type integer using a2::integer;
3. Change the default value of “a2” to be 1.  
   alter table t1 alter column a2 set default 1;
4. Remove the default value of “a2”.  
   alter table t1 alter column a2 drop default;
5. 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;