Due Date: Saturday, November 16, 2013 11:00 PM

Points: 40 points max

Turn In: The script and spool files turned in via the assignment drop box

General Directions

Use the a_testbed database. These tasks focus on the use of data modification techniques. This can cause frustrations while you are working out the queries. Suppose I asked you to insert a new row for an animal and we have a PK on the animal table. If you run your script, it will insert that new row- but the second time you run the script the insert will fail due to a pk violation. For these queries to work properly, you **will need to rerun the supplied scripts that populate the tables** as you work and as part of the script.(see task 01)

- 1. You are not allowed to run alter table queries or change the change the structure or contents of the provided tables in any way. Run the create table statements once only before you start working on the assignment.
- 2. Since this assignment will ask you to change data in tables, we are using a new set of tables. This way you can make changes in these tables without affecting future assignments. The assignment falls into two parts Tasks 2-5 use one set of tables and tasks 6-8 use a different set of tables. I have split the create table and inserts statements into two sets of scripts. That sql is posted. Open these scripts and read the sql; you should be able to understand those scripts.
- 3. At various points, the task tells you to include select statements to display table data. Do **not** include other table displays in your final script.
- 4. **Read the directions carefully**; if a task says that a task uses three sql statements, then you need to use exactly three sql statement. If the task says that you use a single sql statement to create and populate a table, then you must use exactly one sql statement for that.

Tasks

Some of these tasks may require more than one sql statement.

Task 01: For this assignment in copy and paste in the sql for A12_part1_populate.sql and A12_part2_populate.sql. Follow with these select statements.

That will make this task rather long but this assignment is difficult to grade if you do not have the correct starting data. Failure to do this correct will cost 15 points (That is a lot of the assignment points- this is important.)

```
select * from upd_animals;
select * from upd_services;
select * from upd_exam_headers;
select * from upd exam_details;
```

Task 02: This task uses 2 sql statements:

An animal is considered to be non-current if it has not had an exam in the past year and a half. Update the animals table to set the status to NC for animals with no exams in the past year and a half. Then do

```
select * from upd animals.
```

Task 03: In this task you are going to create a table. Since you cannot create a table if it already exists, drop the table upd_nc_felines; use the same syntax as in the scripts.

Create a table named upd_nc_felines and copy the following data for cats with a status of NC from the current set of data to the upd_nc_felines table. This does not remove any rows from the upd_animals table. The upd_nc_felines table should include the animal ID, name, the date of their most recent exam if they have any exams, and the total of all of their exam fees. The last two columns will be null if the animal has no exams.

This task uses three sql commands:

- 1. a single sql statement to drop the table that you are create
- 2. a single sql statement to create and populate the table upd_nc_felines
- 3. select * from upd nc felines;
- **Task 04:** Write a select statement that shows the an_id, an_name and exam date for all current status animals.
- **Task 05:** Write a select statement that shows the an_id, an_name and most recent exam date for all current status animals.

The next queries do replace actions. They are each changing the upd_services table. Each of these tasks will consist of:

• (1) A single replace statement.

id value.

• (2) A select statement that displays the upd_services table after the merge. Display all columns and sort by the srv_id.

Sometime people add additional data to the tables for testing. That is ok because your final script will reset these tables. These tables (services and changes) do not have any relationships set to other tables.

The tables used for the merge are: upd_services, upd_services_changes_1,2, and 3. The changes tables are modeled on the services table but have attribute name that start with item, rather than srv; srv_desc, item_desc and item_list price are nullable. (Read the Create table statements.)

The next four queries do merge actions. They are each changing the upd_services table. Sometime people add additional data to the tables for testing. Be certain to repopulate the tables before the final script to spool for grading. These tables (services and changes) do not have any relationships set to other tables. The tables used for the merge are: upd_services, upd_services_changes_1,2,3 and 4 and are modeled on the services table but have attribute name that start with item, rather than srv; desc and list price are nullable

- **Task 06:** Replace_1: Use a single Replace statement to update the upd_services table with the data in the table upd_services_changes_1. This replace will include inserts only. The changes file includes only rows that have a new id value.
- **Task 07:** Replace_2: Use a single Replace statement to update the upd_services table with the data in the table upd_services_changes_2.

 The changes file includes rows that may have a new id value or an id value that matches an existing service id. Do inserts only; ignore any rows in changes that match an existing service
- **Task 08:** Replace_3: Use a single Replace statement to update the upd_services table with the data in the table upd_services_changes_3.

The changes file includes rows that may have a new id value or an id value that matches an existing service id. Do updates only;

Ignore any rows in changes that do not match an existing service id value.

If the description field in the changes table is null, then do not change the description in the services table.

If the price field in the changes table is null, then do not change the price in the services table.

Task 09:

Replace_4: Use a single Replace statement to update the upd_services table with the data in the table upd_services_changes_4.

The changes file includes rows that may have a new id value or an id value that matches an existing service id. This task will include inserts and updates. But the changes (inserts and updates) should be applied only for changes where the price is between 0 and 100.