Ex 10 Fun with Triggers

**Task 1.** Create functionality that causes data that is inserted or updated in the use\_or\_support field of the employee\_ci table to be in all caps regardless of the case used for the value in the insert command.

**Ex 10 Task 1:**

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**Task 2.** Write and run two DML statements that test the trigger you created for Task 1.

**Ex 10 Task 2 Command 1 UPDATE:**

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**Ex 10 Task 2 Command 2 SELECT:**

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**Task 3.** Create functionality that checks that the asset type for an asset\_desc\_id value being inserted or updated in one of the application, computer, it\_service, peripheral, other, or server (choose one) table matches to the table being inserted into.

**Ex 10 Task 3:**

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**Task 4.** Write commands to demonstrate that the functionality you created for Task 3 does prevent an asset\_id of the incorrect type from being inserted or updated in the table you chose to implement the functionality for.

**Ex 10 Task 4:**

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**Second Insert Attempt Results:**

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**Task 5.** Write commands to create functionality for a table that has a surrogate key id field that uses a sequence for its values.

**Ex 10 Task 5:**

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**Task 6.** Demonstrate that the functionality you created in Task 5 works when

(Command 1) you insert into the table using a partial column list and implicitly

passing NULL for the id field, (Command 2) you insert into the table using a

column list and explicitly passing NULL for the ID field, and (Command 3) you

insert into the table and explicitly passing a hard-coded, unused integer

value of your choosing for the ID field.

**Ex 10 Task 6 Command 1:**

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**Ex 10 Task 6 Command 2:**

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**Ex 10 Task 6 Command 3:**

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**Task 7.** There are three tables in the IT asset management schema that are candidates for the creation of a corresponding audit table that is populated with data by a trigger.

**Ex 10 Task 7:**

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**Task 8.** Having chosen one of the four options presented in Task 7, create an after trigger on the table that is the source of the data transaction.

**Ex 10 Task 8:**

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**Task 9.** Now create a series of changes to the source data table for the trigger you created in Task 8, followed by a select from the audit table, to show that the trigger from Task 8 works to populate the table you created for Task 7.

**Ex 10 Task 9 Command 1:**

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**Ex 10 Task 9 Command 2:**

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**Ex 10 Task 9 Command 3:**

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**Ex 10 Task 9 Command 4:**

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**Task 10.** Create the trigger with the command that follows. Then write a command that demonstrates that the trigger raises the mutating table error.

**Ex 10 Task 10:**

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