

Lab 9 Part 2. Triggers

Point Distribution: 1pt each. Total: 10 pts.

Submission: A typed document with extension “.txt” OR “.sql” must be uploaded to the **Lab 9 Part 2** submission link on **Gradescope**.

Questions

Triggers	
1a	<p>Execute the following statement to create a table named LAB9_EMPLOYEE by copying the Eagle Electronics EMPLOYEE table in your schema.</p> <pre>CREATE TABLE LAB9_EMPLOYEE AS SELECT * FROM EMPLOYEE;</pre>
1b	<p>Create a trigger named TBDS_LAB9_EMPLOYEE on the LAB9_EMPLOYEE table that will fire <u>once</u> before data is deleted from the table, as shown below.</p> <div> <div>Worksheet</div> <div>Query Builder</div> <pre> 1 CREATE OR REPLACE TRIGGER TBDS_LAB10_EMPLOYEE 2 BEFORE DELETE ON LAB10_EMPLOYEE 3 BEGIN 4 DBMS_OUTPUT.PUT_LINE('Trigger fired before deleting anything from LAB10_EMPLOYEE'); 5 END;</pre> </div> <p>What is the database object upon which this trigger is defined? What is the timing of the trigger?</p>
1c	<p>Create a trigger named TBDR_LAB9_EMPLOYEE on the LAB9_EMPLOYEE table that will fire <u>before each row</u> of data is deleted from the table, as shown below.</p> <div> <div>Worksheet</div> <div>Query Builder</div> <pre> 1 CREATE OR REPLACE TRIGGER TBDR_LAB10_EMPLOYEE 2 BEFORE DELETE ON LAB10_EMPLOYEE 3 FOR EACH ROW 4 BEGIN 5 DBMS_OUTPUT.PUT_LINE('Trigger fired before deleting a row from LAB10_EMPLOYEE'); 6 END;</pre> </div> <p>What is the database object upon which this trigger is defined? What is the timing of the trigger?</p>
1d	<p>Create a trigger named TADS_LAB9_EMPLOYEE on the LAB9_EMPLOYEE table that will fire <u>once</u> after data is deleted from the table, as shown below.</p>

	<div> <div>WorksheetQuery Builder</div> <pre> 1 CREATE OR REPLACE TRIGGER TADS_LAB10_EMPLOYEE 2 AFTER DELETE ON LAB10_EMPLOYEE 3 BEGIN 4 DBMS_OUTPUT.PUT_LINE('Trigger fired after deleting anything from LAB10_EMPLOYEE'); 5 END;</pre> </div> <p>What is the database object upon which this trigger is defined? What is the timing of the trigger?</p>
1e	<p>Create a trigger named TADR_LAB9_EMPLOYEE on the LAB9_EMPLOYEE table that will fire <u>after each row</u> of data is deleted from the table, as shown below.</p> <div> <div>WorksheetQuery Builder</div> <pre> 1 CREATE OR REPLACE TRIGGER TADR_LAB10_EMPLOYEE 2 AFTER DELETE ON LAB10_EMPLOYEE 3 FOR EACH ROW 4 BEGIN 5 DBMS_OUTPUT.PUT_LINE('Trigger fired after deleting a row from LAB10_EMPLOYEE'); 6 END;</pre> </div> <p>What is the database object upon which this trigger is defined? What is the timing of the trigger?</p>
1f	<p>Delete the record associated with Employee ID '101135' from the LAB9_EMPLOYEE table. Include both the code and the results in your submission.</p> <p>Which trigger(s) fired? For each that fired, how many times did it fire? If more than one fired, what was the sequence in which they fired?</p>
1g	<p>Attempt to rollback the deletion. Is the data restored? Does trigger execution implicitly perform a commit?</p>
1h	<p>Delete all employees with the job title 'Sales' from the LAB9_EMPLOYEE table. Include both the code and the results in your submission.</p> <p>Which trigger(s) fired? For each that fired, how many times did it fire? If more than one fired, what was the sequence in which they fired?</p>
1i	<p>Again, attempt to rollback the deletion. Is the data restored this time? Is this what you expected?</p>
1j	<p>Truncate the LAB9_EMPLOYEE table. Include both the code and the results in your submission.</p> <p>Which trigger(s) fired? For each that fired, how many times did it fire? If more than one fired, what was the sequence in which they fired?</p>