

University of Petroleum &

Energy Studies SCHOOL OF COMPUTER SCIENCE

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Course: BTech CSE

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BATCH: 1

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Semester: 3

Experiment 16: To understand the concepts of Trigger.

Objective: Students will be able to implement the concept of trigger.

1. Using implicit cursor update the salary by an increase of 10% for all the records in EMPLOYEES table, and finally display how many records have been updated. If no records exist display the message "No Change". Creating STUDENT Table:



INPUT:

```
CREATE OR REPLACE TRIGGER Salary Diff_Trigger
AFTER INSERT OR UPDATE OR DELETE
3 ON STUDENT
4 FOR EACH ROW
5 DECLARE
6 | v_diff Number;
8 | -- Handle UPDATE operation
9 | IF UPDATING THEN
10 | v_diff : NUM_SALARY - :OLD_SALARY;
11 | DBMS_OUTPUT.PUT_LINE('UPDATE operation: Salary changed from ' || :OLD_SALARY || ' to ' || :NEW_SALARY || ' (Difference: ' || v_diff || ').');
12 | END IF;
13 | -- Handle INSERT operation: New Salary is ' || :NEW_SALARY || '.');
15 | DBMS_OUTPUT.PUT_LINE('INSERT operation: New Salary is ' || :NEW_SALARY || '.');
16 | DBMS_OUTPUT.PUT_LINE('INSERT operation: New Salary is ' || :NEW_SALARY || '.');
17 | END IF;
18 | -- Handle DELETE operation
19 | DELETING THEN
20 | DBMS_OUTPUT.PUT_LINE('DELETE operation: Old Salary was ' || :OLD_SALARY || '.');
21 | DBMS_OUTPUT.PUT_LINE('DELETE operation: Old Salary was ' || :OLD_SALARY || '.');
22 | END IF;
23 | END IF;
24 | /

25 | Explain | Describe | Saved SQL | History
```

OUTPUT:

Inserting:

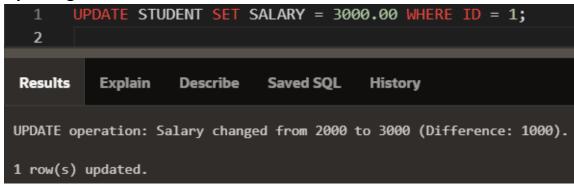
```
1 INSERT INTO STUDENT VALUES (7, 'Nikhil', 30, 'Pune', 5000.00);
2

Results Explain Describe Saved SQL History

INSERT operation: New Salary is 5000.

1 row(s) inserted.
```

Updating:



Deleting:

