

University of Petroleum &

Energy Studies SCHOOL OF COMPUTER SCIENCE

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Course: BTech CSE

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BATCH: 1

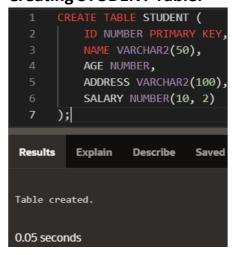
PRESENTED TO: Dr. Syed Sajid Hussain

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

ON STUDENT
FOR EACH ROW

DECLARE

V_diff Number;

BEGIN
-- Handle UPDATE operation

If UPDATING THEN
V_diff:::NEW.SALARY -:OLD.SALARY;

DBMS_OUTPUT.PUT_LINE('UPDATE operation: Salary changed from '||:OLD.SALARY|| 'to '||:NEW.SALARY|| '(Difference: '|| v_diff || ').');

END IF;

Handle INSERT operation
If INSERTING THEN
DBMS_OUTPUT.PUT_LINE('INSERT operation: New Salary is '||:NEW.SALARY|| '.');
END IF;

Handle DELETE operation
BF DELETING THEN
DBMS_OUTPUT.PUT_LINE('DELETE operation: Old Salary was '||:OLD.SALARY|| '.');
END IF;

BOBS_OUTPUT.PUT_LINE('DELETE operation: Old Salary was '||:OLD.SALARY|| '.');
END IF;

BRS_OUTPUT.PUT_LINE('DELETE operation: Old Salary was '||:OLD.SALARY|| '.');
END IF;

EXPLAIN Describe Saved SQL History

Trigger created.
```

OUTPUT:

Inserting:

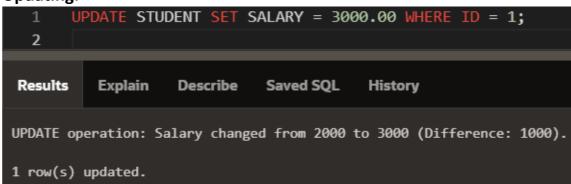
```
1 INSERT INTO STUDENT VALUES (7, 'Nikhil', 30, 'Pune', 5000.00);
2

Results Explain Describe Saved SQL History

INSERT operation: New Salary is 5000.

1 row(s) inserted.
```

Updating:



Deleting:

