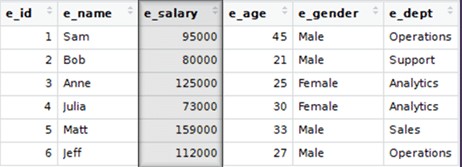
EX 12 PL/SQL TRIGGERS



Create a row-level trigger for the EMPLOYEE table that would get executed by the DML statement like UPDATE OR INSERT on that table.

The trigger will compute and show the SALARY difference between current and previous values.(Hint: previous salary: , current salary: , salary difference: )

create table emp(e\_id int,e\_name varchar(20),e\_salary int,e\_age int,e\_gender varchar(20),e\_dept varchar(20));

insert into emp values(1,'Sam',95000,45,'Male','Operations');

insert into emp values(2,'Bob',80000,21,'Male','Support');

insert into emp values(3,'Anne',125000,25,'Female','Analytics');

insert into emp values(4,'Julia',73000,30,'Female','Analytics');

insert into emp values(5,'Matt',159000,33,'Male','Sales');

insert into emp values(6,'Jeff',112000,27,'Male','Operations');

CREATE OR REPLACE TRIGGER display\_salary\_changes

BEFORE DELETE OR INSERT OR UPDATE ON emp

FOR EACH ROW

WHEN (NEW.e\_id > 0)

DECLARE

sal\_diff number;

BEGIN

sal\_diff := :NEW.e\_salary - :OLD.e\_salary;

dbms\_output.put\_line('Old salary: ' || :OLD.e\_salary);

dbms\_output.put\_line('New salary: ' || :NEW.e\_salary);

dbms\_output.put\_line('Salary difference: ' || sal\_diff);

END;

/

UPDATE emp

SET e\_salary = e\_salary + 1000

WHERE e\_id = 2;

INSERT INTO emp VALUES(7,'Ram',100000,44,'Male','Operations');



Create a trigger for the STUDENT table that would get executed by the DML statement like UPDATE OR INSERT on that table.

The trigger will compute and show the message “Department does not exist if the department\_ id is greater than 5”.

create table student(id int,first\_name varchar(20),last\_name varchar(20),department\_id int);

insert into student values(1,'Josh','Doe',1);

insert into student values(2,'Bush','Lily',2);

insert into student values(3,'David','Dave',3);

insert into student values(4,'Mary','jane',4);

insert into student values(5,'Jonatha','Josh',5);

insert into student values(6,'Mateo','More',1);

CREATE OR REPLACE TRIGGER id\_war

BEFORE DELETE OR INSERT OR UPDATE ON student

FOR EACH ROW

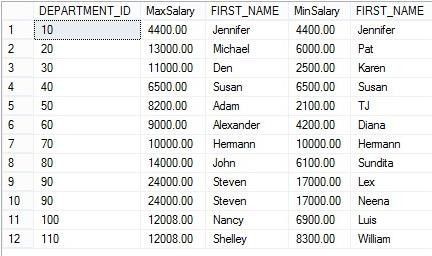
WHEN(NEW.department\_id>5)

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Department does not exist if the department\_ id is greater than 5');

END;

/



Create a trigger for the EMPLOYEE table that would get executed by the DML statement like UPDATE OR INSERT on that table.

The trigger will compute and show the difference between the min salary and max salary.