

CREATE TABLE EMPLOYEES\_LOG (

LOG\_ID NUMBER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,

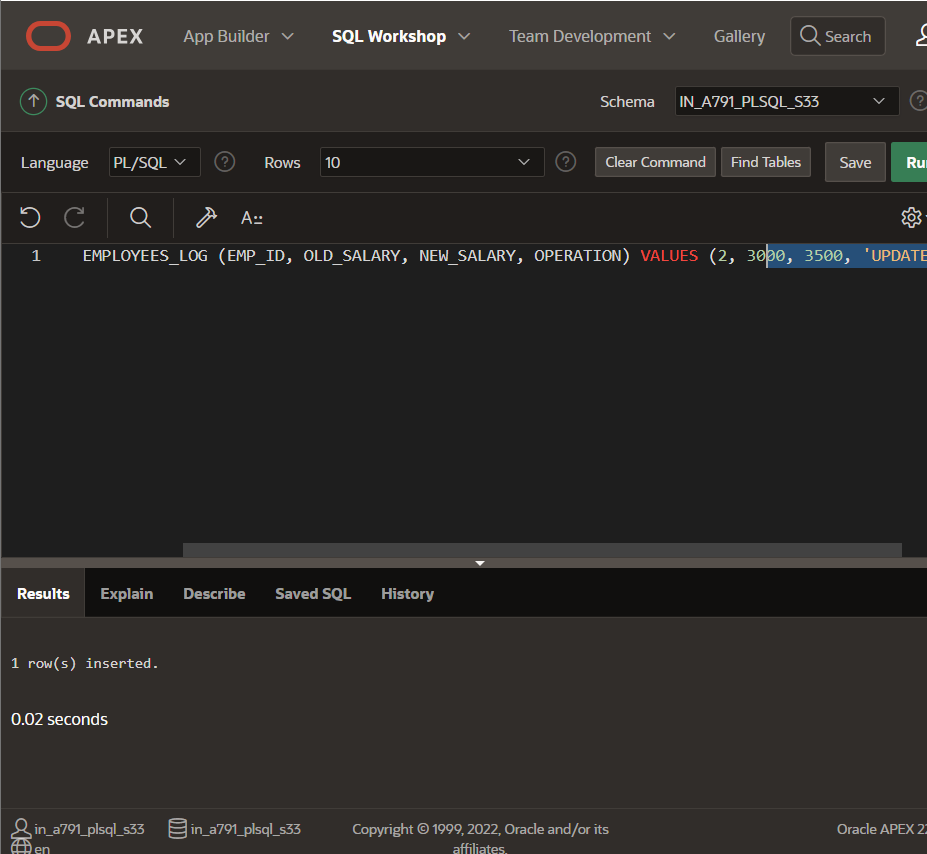
EMP\_ID NUMBER,

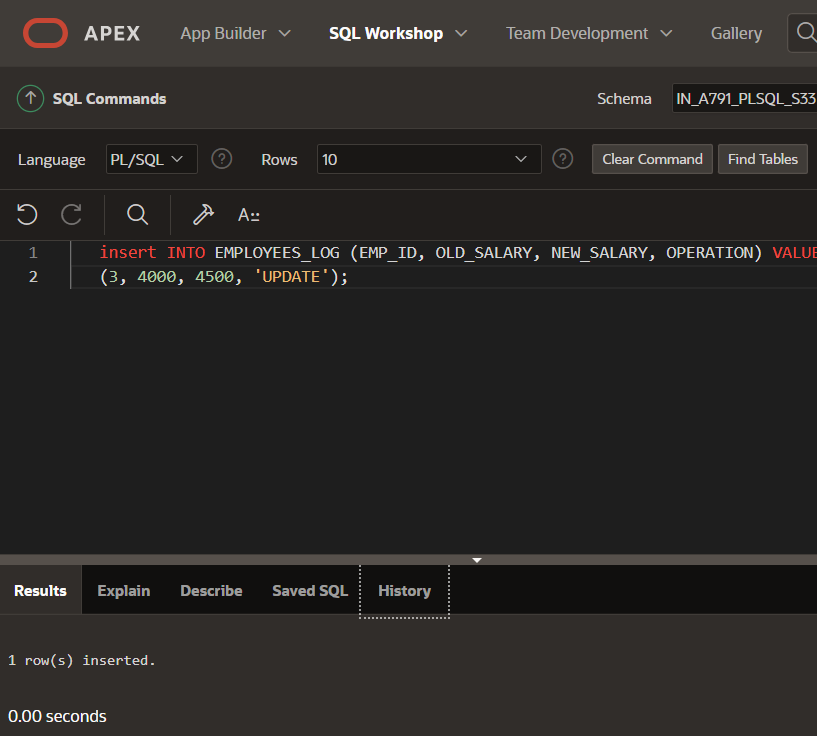
OLD\_SALARY NUMBER,

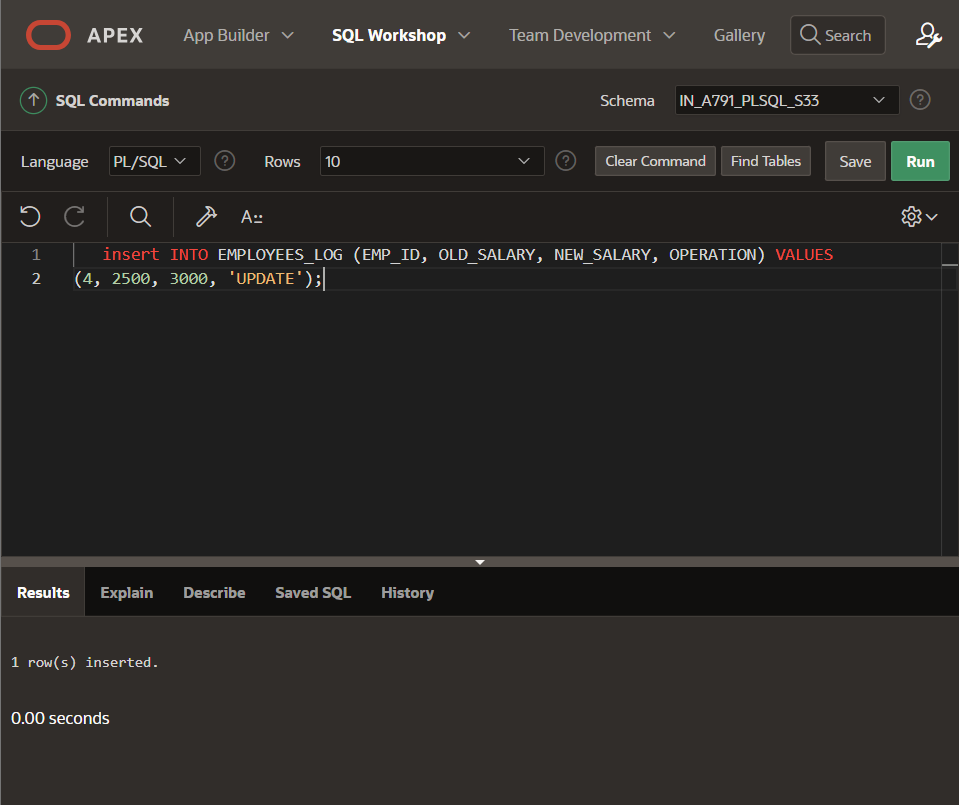
NEW\_SALARY NUMBER,

CHANGE\_DATE TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

OPERATION VARCHAR2(10)







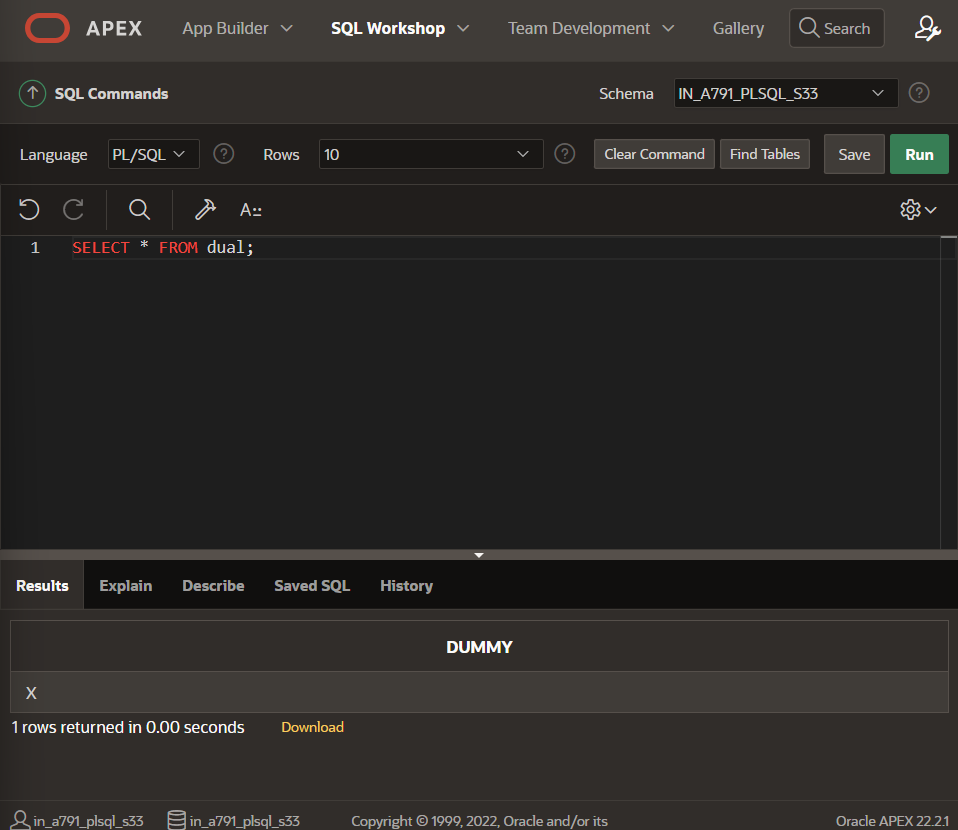
INSERT ALL

INTO EMPLOYEES\_LOG (EMP\_ID, OLD\_SALARY, NEW\_SALARY, OPERATION) VALUES (2, 3000, 3500, 'UPDATE')

INTO EMPLOYEES\_LOG (EMP\_ID, OLD\_SALARY, NEW\_SALARY, OPERATION) VALUES (3, 4000, 4500, 'UPDATE')

INTO EMPLOYEES\_LOG (EMP\_ID, OLD\_SALARY, NEW\_SALARY, OPERATION) VALUES (4, 2500, 3000, 'UPDATE')

SELECT \* FROM dual;



CREATE TABLE EMPLOYEES (

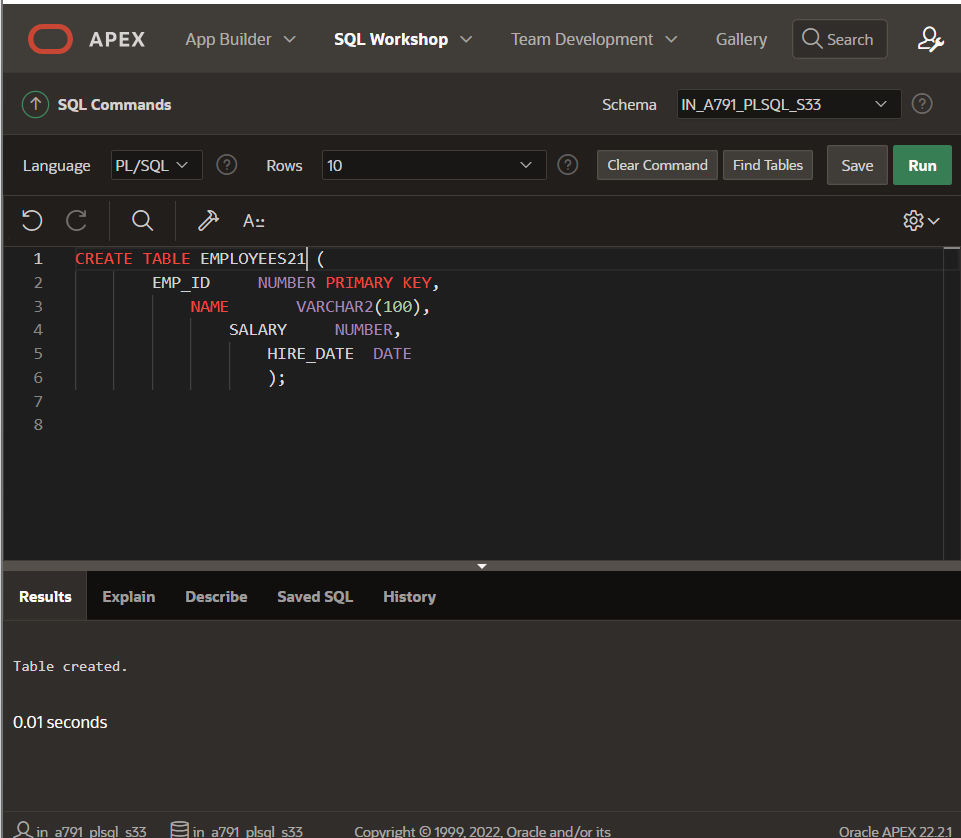
EMP\_ID NUMBER PRIMARY KEY,

NAME VARCHAR2(100),

SALARY NUMBER,

HIRE\_DATE DATE

);



CREATE OR REPLACE TRIGGER trg\_employees\_update

BEFORE UPDATE ON EMPLOYEES

FOR EACH ROW

DECLARE

v\_old\_salary EMPLOYEES.SALARY%TYPE;

v\_new\_salary EMPLOYEES.SALARY%TYPE;

BEGIN

-- Store old and new salary values

v\_old\_salary := :OLD.SALARY;

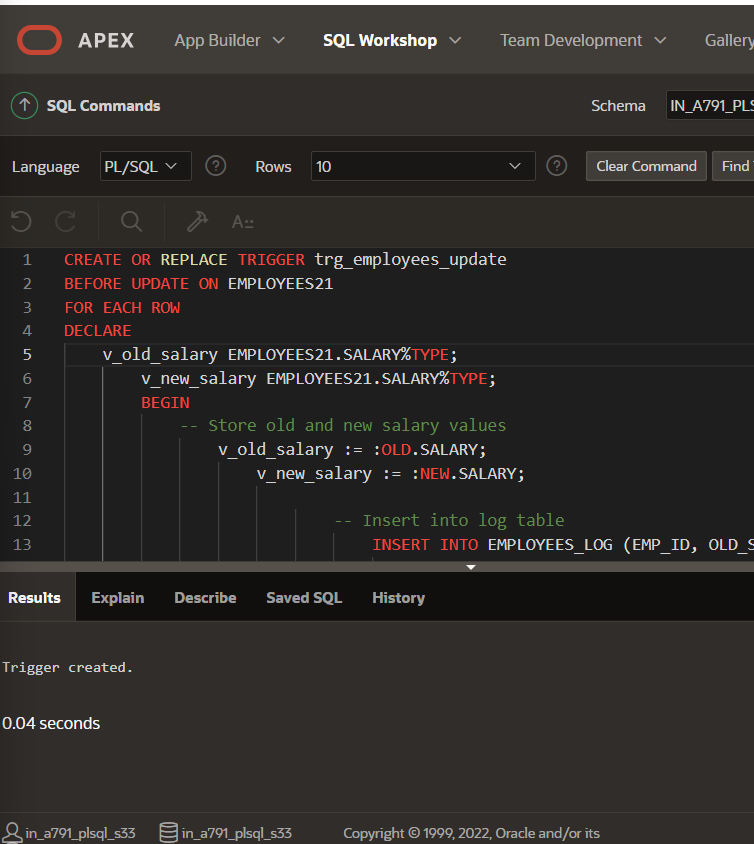
v\_new\_salary := :NEW.SALARY;

-- Insert into log table

INSERT INTO EMPLOYEES\_LOG (EMP\_ID, OLD\_SALARY, NEW\_SALARY, OPERATION)

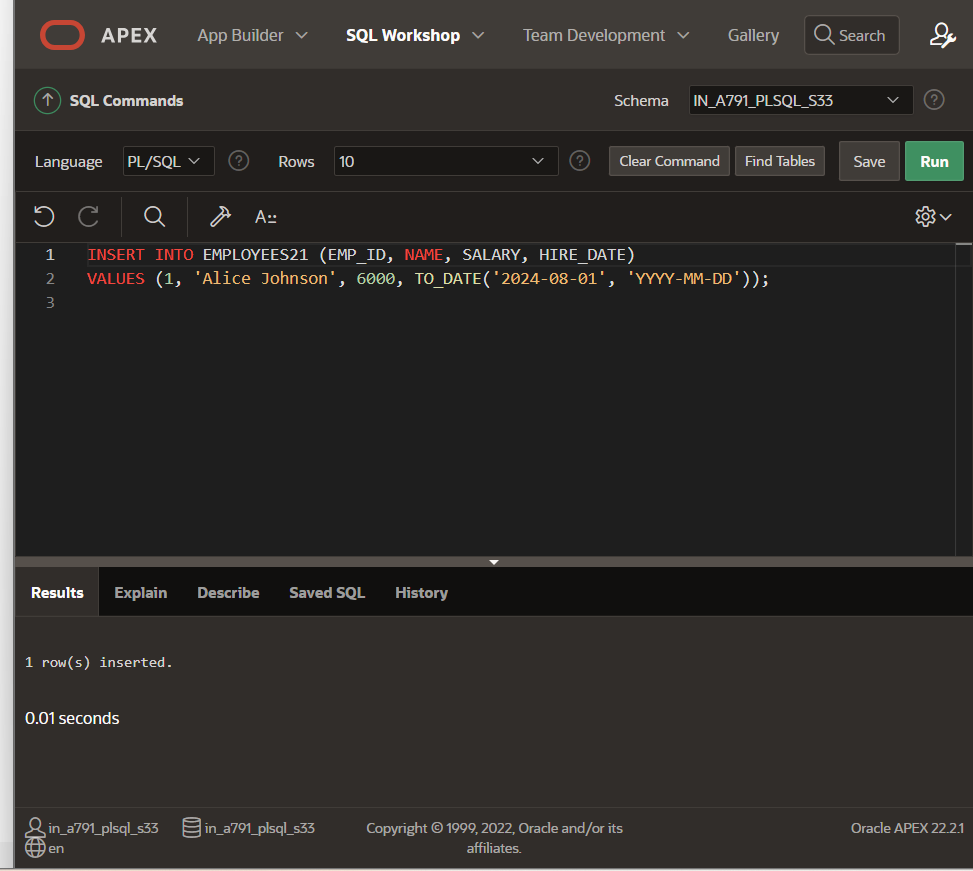
VALUES (:OLD.EMP\_ID, v\_old\_salary, v\_new\_salary, 'UPDATE');

END;



INSERT INTO EMPLOYEES (EMP\_ID, NAME, SALARY, HIRE\_DATE)

VALUES (1, 'Alice Johnson', 6000, TO\_DATE('2024-08-01', 'YYYY-MM-DD'));

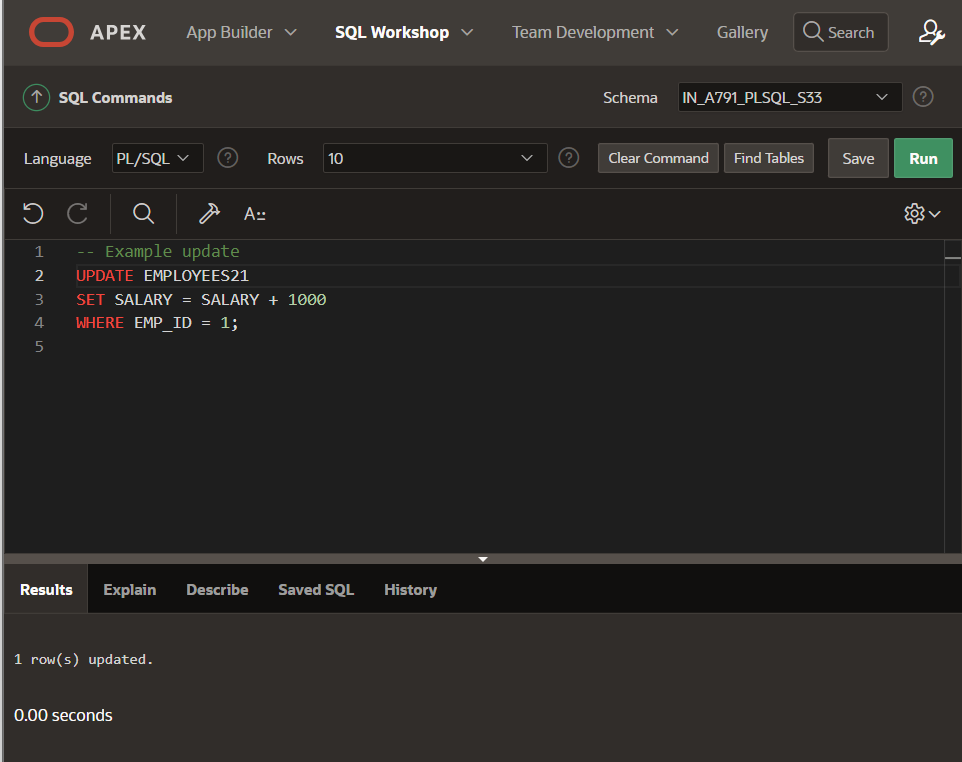


-- Example update

UPDATE EMPLOYEES

SET SALARY = SALARY + 1000

WHERE EMP\_ID = 1;



-- Check the log table

SELECT \* FROM EMPLOYEES\_LOG;

