# DBMS SQL QUERY 3

**MERGE:**

MERGE INTO EMPLOYE1 e USING JOB1 j

ON (e.EMP\_ID = j.JOB\_ID)

WHEN MATCHED THEN UPDATE

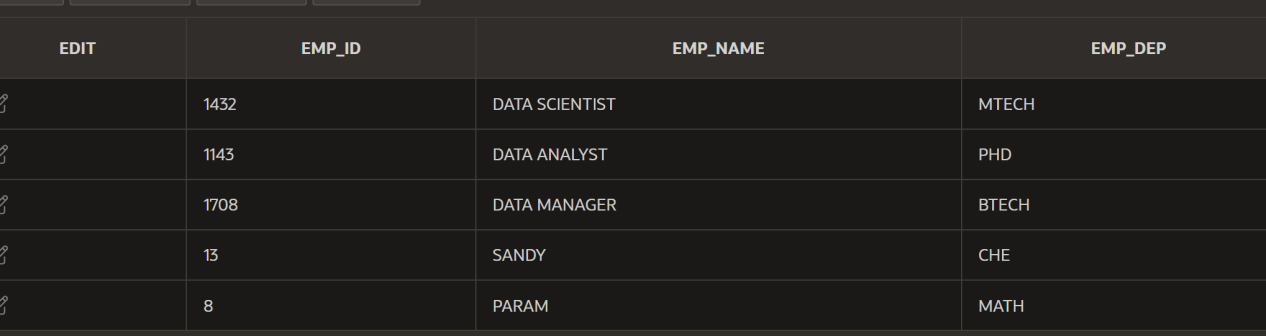
SET

e.EMP\_NAME = j.JOB\_NAME,

e.EMP\_DEP = j.JOB\_QUALIFICATION

WHEN NOT MATCHED THEN INSERT

VALUES(j.JOB\_ID, j.JOB\_NAME, j.JOB\_QUALIFICATION);



**SEQUENCE:**

CREATE SEQUENCE sequence\_1

INCREMENT BY 1

START WITH 1

MAXVALUE 50000

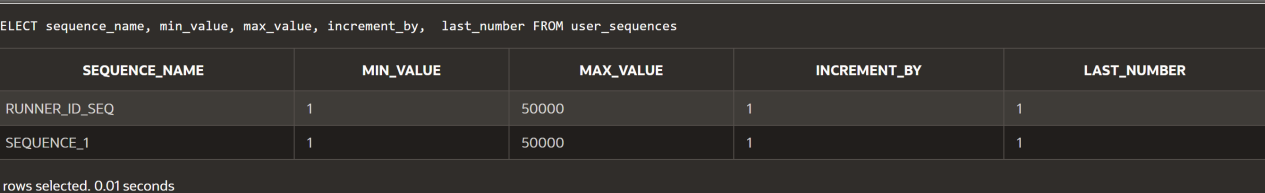
NOCACHE

NOCYCLE;

SELECT sequence\_name, min\_value, max\_value, increment\_by,

last\_number

FROM user\_sequences;



CREATE TABLE students

(

ID number(10),

NAME char(20)

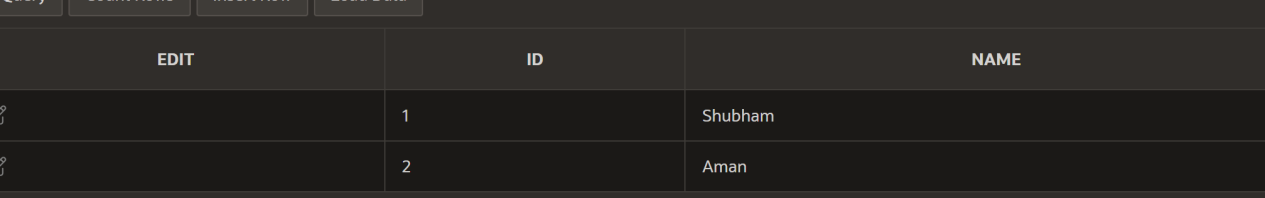
);

INSERT into students VALUES

(sequence\_1.nextval,'Shubham');

INSERT into students VALUES

(sequence\_1.nextval,'Aman');



**USING FUNCTIONS:**

* **FACTORIAL**

DECLARE

num number;

factorial number;

FUNCTION fact(x number)

RETURN number

IS

f number;

BEGIN

IF x=0 THEN

f := 1;

ELSE

f := x \* fact(x-1);

END IF;

RETURN f;

END;

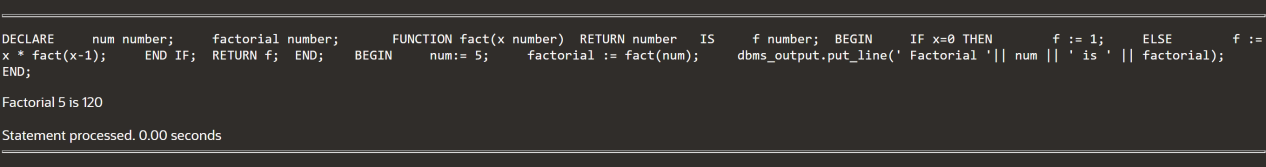
BEGIN

num:= 5;

factorial := fact(num);

dbms\_output.put\_line(' Factorial '|| num || ' is ' || factorial);

END;



* **FIND MAX:**

DECLARE

a number;

b number;

c number;

FUNCTION findMax(x IN number, y IN number)

RETURN number

IS

z number;

BEGIN

IF x > y THEN

z:= x;

ELSE

Z:= y;

END IF;

RETURN z;

END;

BEGIN

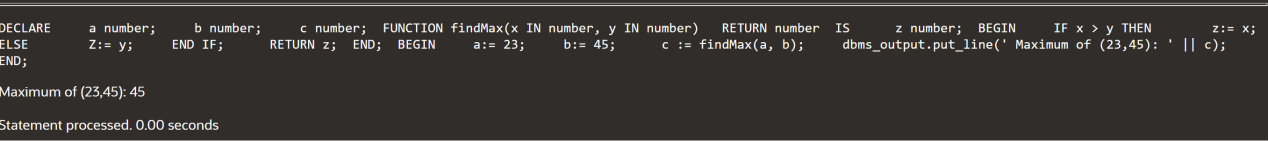
a:= 23;

b:= 45;

c := findMax(a, b);

dbms\_output.put\_line(' Maximum of (23,45): ' || c);

END;



**MERGE:**

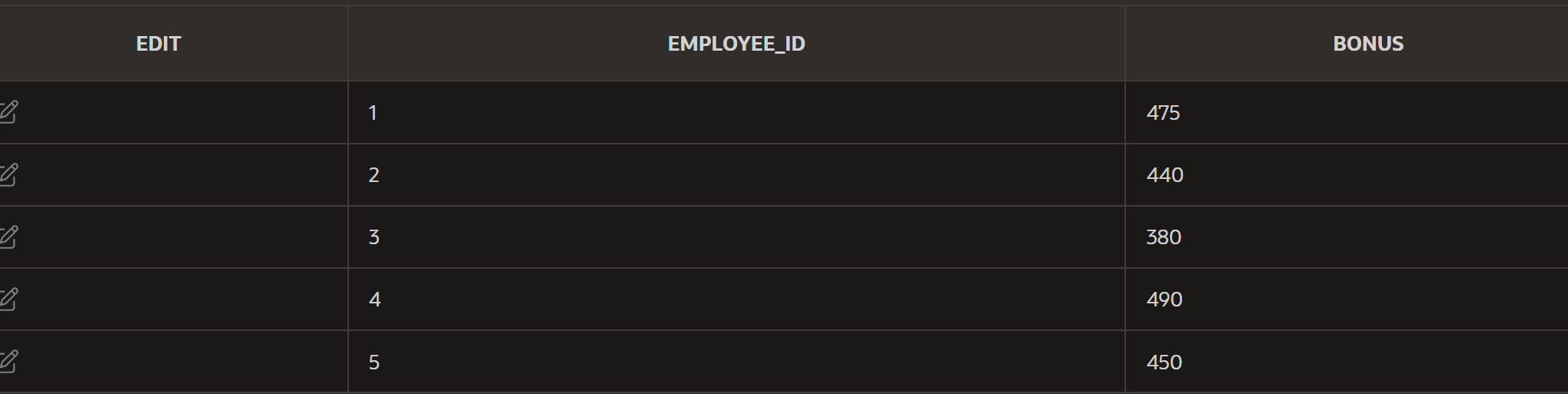
MERGE INTO BONUSES b

USING employe e

ON (b.employee\_id=e.employee\_id)

WHEN MATCHED THEN

UPDATE SET b.bonus=e.salary\*.05;



**SELECT:**

* DECLARE

E\_EID EMPLOYEEE.E\_ID%TYPE;

E\_DEP\_ID EMPLOYEEE.DEP\_ID%TYPE;

BEGIN

SELECT E\_ID,DEP\_ID

INTO E\_EID,E\_DEP\_ID

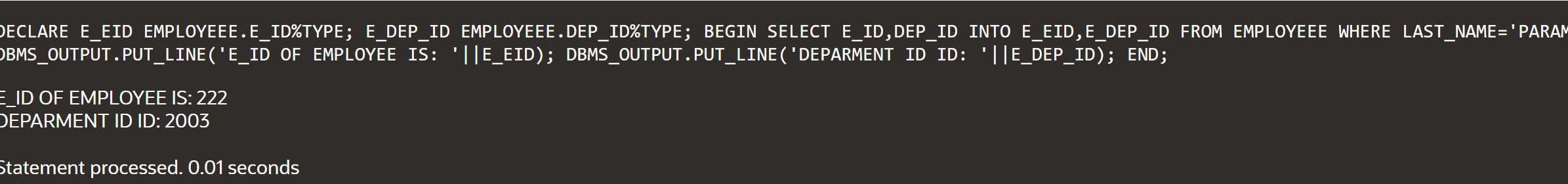
FROM EMPLOYEEE

WHERE LAST\_NAME='PARAM';

DBMS\_OUTPUT.PUT\_LINE('E\_ID OF EMPLOYEE IS: '||E\_EID);

DBMS\_OUTPUT.PUT\_LINE('DEPARMENT ID ID: '||E\_DEP\_ID);

END;



* DECLARE

E\_EID EMPLOYEEE.E\_ID%TYPE;

E\_DEP\_ID EMPLOYEEE.DEP\_ID%TYPE;

BEGIN

SELECT E\_ID,DEP\_ID

INTO E\_EID,E\_DEP\_ID

FROM EMPLOYEEE

WHERE LAST\_NAME='PARAM';

DBMS\_OUTPUT.PUT\_LINE('E\_ID OF EMPLOYEE IS: '||E\_EID);

DBMS\_OUTPUT.PUT\_LINE('DEPARMENT ID ID: '||E\_DEP\_ID);

END;

* DECLARE

S\_SUM NUMBER(10);

S\_DEPT NUMBER NOT NULL:=4;

BEGIN

SELECT SUM(SALARY)

INTO S\_SUM FROM EMPLOYEE

WHERE FIRST\_NAME=’DHIVYA’;

DBMS\_OUTPUT.PUT\_LINE('SUM OF THE SALARY: '||S\_SUM);

END;

* DECLARE

LAST\_NAME STUD.LAST\_NAME%TYPE :='JOSHUA';

BEGIN

DELETE FROM STUD WHERE LAST\_NAME=LAST\_NAME;

END;