**B\_18\_DAYAL ADITYA KISHOR**

**Assignment No. 9**

**Title:**

Study and Implementation of SQL Cursors

**Problem Statement:**

1. Consider following employee table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Name | Age | Address | Salary |
| 1 | Michael | 32 | US | 6500 |
| 2 | John | 26 | US | 2500 |
| 3 | David | 33 | Canada | 8000 |
| 4 | Mitchel | 29 | Germany | 2500 |
| 5 | Hopkins | 28 | Italy | 6500 |

Write a PL/SQL block to increase salary of those employee having minimum salary by 5000. Display count of employees who got hike in salary. (Use implicit cursor)

1. Write an explicit cursor to  
   i) display employee name, address, salary along with age category (young or old).  
   Note: age between 18 to 40 – young, age above 40- old.  
   ii) display count of young and old employees

**Answers:**

Create table and insert values

create table emp (id int primary key, name varchar(50), age int, address varchar(50), salary float);

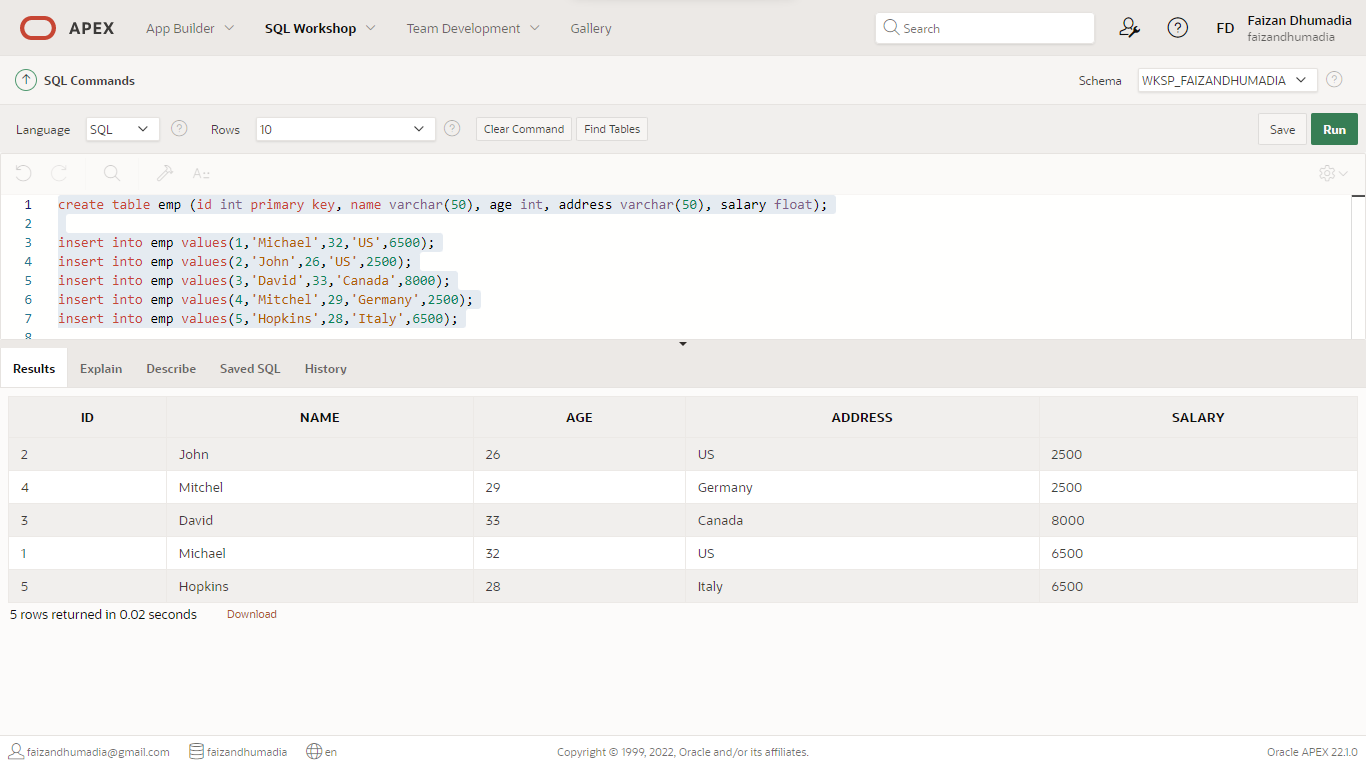
insert into emp values(1,'Michael',32,'US',6500);

insert into emp values(2,'John',26,'US',2500);

insert into emp values(3,'David',33,'Canada',8000);

insert into emp values(4,'Mitchel',29,'Germany',2500);

insert into emp values(5,'Hopkins',28,'Italy',6500);



1. PL/SQL block to increase salary

DECLARE

total\_rows number(2);

BEGIN

UPDATE emp SET salary = salary + 5000 where salary < 5000;

IF sql%notfound THEN

dbms\_output.put\_line('no employee updated');

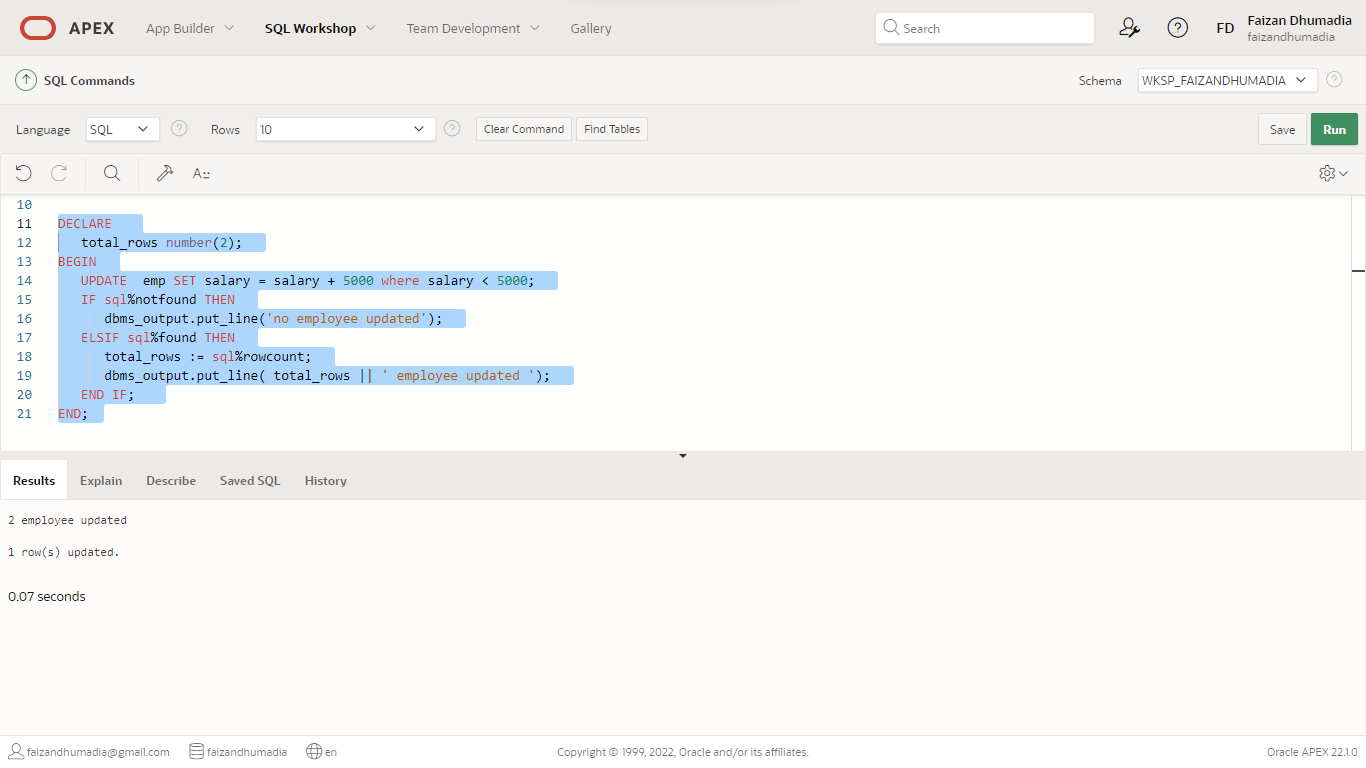
ELSIF sql%found THEN

total\_rows := sql%rowcount;

dbms\_output.put\_line( total\_rows || ' employee updated ');

END IF;

END;



2. Explicit cursor

DECLARE

c\_id emp.id%type;

c\_name emp.name%type;

c\_age emp.age%type;

c\_addr emp.address%type;

c\_salary emp.salary%type;

ctg\_young number(2) :=0;

ctg\_old number(2) :=0;

CURSOR c\_emp is

SELECT id, name,age, address, salary FROM emp;

BEGIN

OPEN c\_emp;

dbms\_output.put\_line('ID | Name | ADDRESS | Salary | AGE | Category');

LOOP

FETCH c\_emp into c\_id, c\_name, c\_age, c\_addr,c\_salary;

EXIT WHEN c\_emp%notfound;

IF c\_age > 18 and c\_age < 40 THEN

dbms\_output.put\_line(c\_id||' | '||c\_name||' | '||c\_addr||' | '||c\_salary||' | '||c\_age||' | '||' Young ');

ctg\_young := ctg\_young+1;

ELSIF c\_age > 40 THEN

dbms\_output.put\_line(c\_id||' | '||c\_name||' | '||c\_addr||' | '||c\_salary||' | '||c\_age||' | '||' OLD ');

ctg\_old := ctg\_old+ 1;

END IF;

END LOOP;

dbms\_output.put\_line('Total: '||ctg\_young||' Young and '||ctg\_old ||' Old employees');

CLOSE c\_emp;

END;

