

9-2: Using Functions in SQL Statements

Vocabulary

User-Defined Function

Try It / Solve It

1.

```
SELECT last_name, salary, salary+salary*5/100  
FROM f_emps  
WHERE salary+salary*5/100>1000
```

```
SELECT last_name, salary, sal_increase(salary, 5)  
FROM f_emps  
WHERE sal_increase(salary, 5)>1000
```

A doua varianta e mai ok deoarece codul poate fi citit mai usor si inteles mai usor si totodata modificat mai usor(modificand doar parametrul)

2.

- The column-list of a SELECT statement
- Conditional expressions in the WHERE and HAVING CLAUSE
- The ORDER BY an GROUP BY clauses of a query
- The values clause of the INSERT statement
- The SET clause of the UPDATE statement

3.

```
SELECT last_name, salary, sal_increase(salary, 5)
FROM f_emps
WHERE sal_increase(salary, 5)>1000
ORDER BY sal_increase(salary, 5) DESC;
```

4.

```
SELECT department_id, SUM( sal_increase(salary,5) )
FROM f_emps
GROUP BY department_id
HAVING SUM(sal_increase(salary,5)) > 20000;
```

5.

- nu se poate folosi intr o instructiune SQL deoarece returneaza o valoare booleana
- Se poate folosi intr un PL/SQL (in IF)

6.

```
CREATE OR REPLACE PROCEDURE insert_emp
(p_emp_id   IN f_emps.employee_id%TYPE,
 p_last_name IN f_emps.last_name%TYPE,
 p_slary    IN f_emps.salary%TYPE,
 p_dept     IN f_emps.department_id%TYPE) IS
BEGIN
    IF check_dept(p_dept) THEN
        INSERT INTO f_emps
        VALUES(p_emp_id,p_last_name ,p_slary, p_dept);
```

ELSE

DBMS_OUTPUT.PUT_LINE(' Nu exista departamentul');

END IF;

END insert_emp;

7.

BEGIN

insert_emp(800,'Jokinen',5000,750);

END;

Nu exista departamentul'

8.

REATE OR REPLACE PROCEDURE insert_emp

(p_emp_id f_emps.employee_id%TYPE,

p_last_name f_emps.last_name%TYPE,

p_slary f_emps.salary%TYPE,

p_dept f_emps.department_id%TYPE) IS

BEGIN

IF check_dept(p_dept) THEN

INSERT INTO f_emps

VALUES(p_emp_id,p_last_name ,p_slary, p_dept);

ELSE

INSERT INTO f_depts

VALUES(750, 'Temporary');

INSERT INTO f_emps

VALUES(p_emp_id,p_last_name ,p_slary, p_dept);

```
END IF;  
END insert_emp;
```

```
BEGIN  
    insert_emp(800,'Jokinen',5000,750);  
END;
```

9.

```
SELECT *  
FROM f_depts  
WHERE department_id=750;
```

```
SELECT *  
FROM f_emps  
WHERE department_id=750
```

10.

functia e apelata dintr-o instructiune DML care face modificari in tabelul pe care il interogheaza functia

11.

-va aparea o eroare deoarece tabelul interogat sufera prin functie upd_sal() modificari