/\*Adaptare ex 7:

Definiți două funcții locale cu același nume (overload) care să calculeze media anilor de experienta al medicilor astfel:

- prima funcție va avea ca argument codul spitalului, adică funcția calculează media

anilor de experienta din spitalul specificat;

- a doua funcție va avea două argumente, unul reprezentând codul spitalului, iar celălalt

reprezentând codul de specializare al medicului, adică funcția va calcula media anilor de experienta ale medicilor dintr-un

anumit spital și care au o anumita specializare.\*/

DECLARE

-- Avg by hospital

FUNCTION avg\_func (h\_id hospitals\_t.hospital\_id%TYPE)

RETURN NUMBER IS

res NUMBER(10,2);

BEGIN

SELECT AVG(m.years\_exp)

INTO res

FROM medics\_t m

JOIN hospitals\_medics\_t hm

ON hm.medic\_id = m.medic\_id

WHERE hm.hospital\_id = h\_id;

RETURN res;

END;

-- Avg by hospital and specialization

FUNCTION avg\_func (h\_id hospitals\_t.hospital\_id%TYPE, spec\_id medics\_t.specialization\_id%TYPE)

RETURN NUMBER IS

res NUMBER(10,2);

BEGIN

SELECT AVG(m.years\_exp)

INTO res

FROM medics\_t m

JOIN hospitals\_medics\_t hm

ON hm.medic\_id = m.medic\_id

WHERE hm.hospital\_id = h\_id AND m.specialization\_id = spec\_id;

RETURN res;

END;

-- Testing above functions

PROCEDURE test\_avg

IS avg1 NUMBER(10,2); avg2 NUMBER(10,2);

BEGIN

FOR hosp IN (SELECT hospital\_id id FROM hospitals\_t) LOOP

FOR spec IN (SELECT DISTINCT specialization\_id id FROM medics\_t) LOOP

avg2 := avg\_func(hosp.id, spec.id);

IF avg2 IS NULL THEN

DBMS\_OUTPUT.PUT\_LINE('No medics in hospital ' || hosp.id || ' have specialization ' || spec.id);

ELSE

DBMS\_OUTPUT.PUT\_LINE('Avg years of experience for medics in hospital with id ' || hosp.id ||

' that have the specialization with id ' || spec.id || ': ' || avg2);

END IF;

END LOOP;

avg1:=avg\_func(hosp.id);

IF avg1 IS NULL THEN

DBMS\_OUTPUT.PUT\_LINE('No medics work in hospital ' || hosp.id);

ELSE

DBMS\_OUTPUT.PUT\_LINE(' Avg years of experience for medics in hospital with id ' || hosp.id || ': ' || avg1);

END IF;

END LOOP;

END test\_avg;

BEGIN

test\_avg();

END;

/



