**Oefeningen PL/SQL Hoofdstuk 2: Functies**

**Opgave 1:**

CREATE OR REPLACE FUNCTION dagen\_einde\_maand

RETURN number

AS

V\_dagen := last\_day(sysdate) – sysdate;

RETURN n\_dagen;

END;

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**Opgave 2:**

CREATE OR REPLACE FUNCTION aantal\_dienstjaren

(p\_date date)

RETURN number

AS

V\_aantal\_dagen number(3);

BEGIN

RETURN TRUNC(months\_between(sysdate, p\_date) / 12);

END;

SELECT aantal\_dienstjaren(hire\_date), last\_name from employees;

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**Opgave 3a:**

CREATE OR REPLACE FUNCTION netto

(p\_salaris employees.salary%type)

RETURN varcahr2

AS

BEGIN

RETURN to\_char(p\_salaris \* 0.6, ‘999,999,999,00’ || ‘ euro’;

END;

SELECT netto(salary) FROM employees;

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Opgave 3b:

CREATE OR REPLACE FUNCTION netto2

(p\_bruto employees.salary%type)

RETURN VARCHAR2

AS

v\_netto employees.salary%type;

BEGIN

IF p\_bruto <= 10000 THEN

v\_netto := p\_bruto \* 0.6;

ELSIF p\_bruto <= 16000 THEN

v\_netto := 6000 + (p\_bruto - 10000) \* 0.5;

ELSE

v\_netto := 6000 + 3000 + (p\_bruto - 16000) \* 0.4;

END IF;

RETURN to\_char(v\_netto, '999,999,999,00') || ' euro';

END;

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create or replace ....

(p\_jaar number)

return varchar2

as

begin

if mod(p\_jaar, 400) = 0 OR (mod(p\_jaar, 4) = 0 AND mod(p\_jaar, 100) != 0) THEN

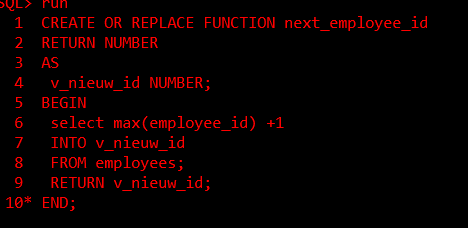
return p\_jaar || ' is een schrikkeljaar';

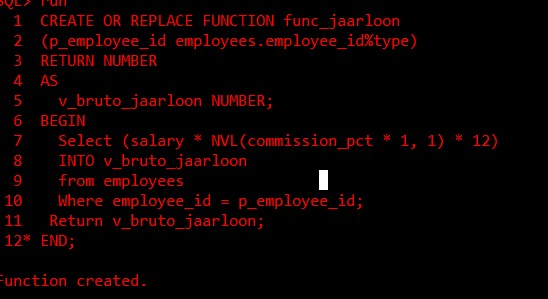
else

return p\_jaar || ' is geen';

end if;

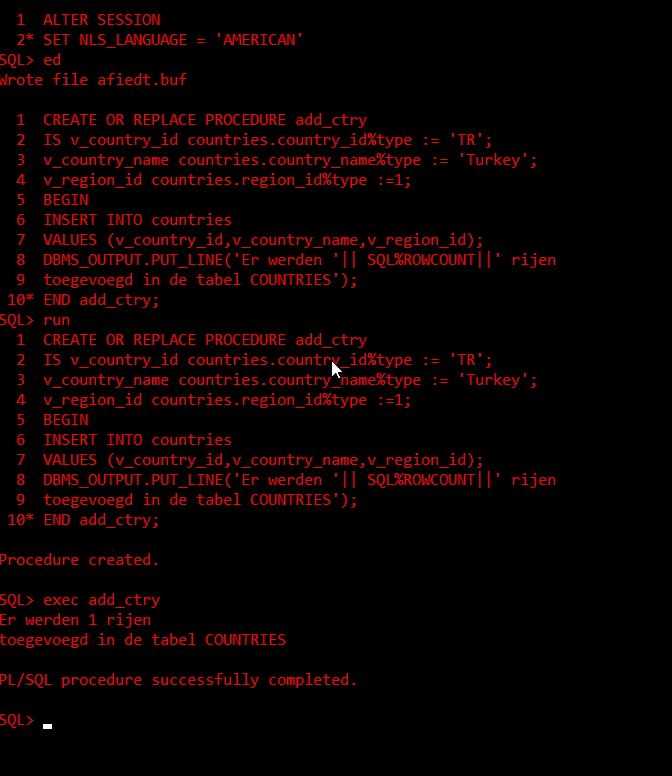
end;

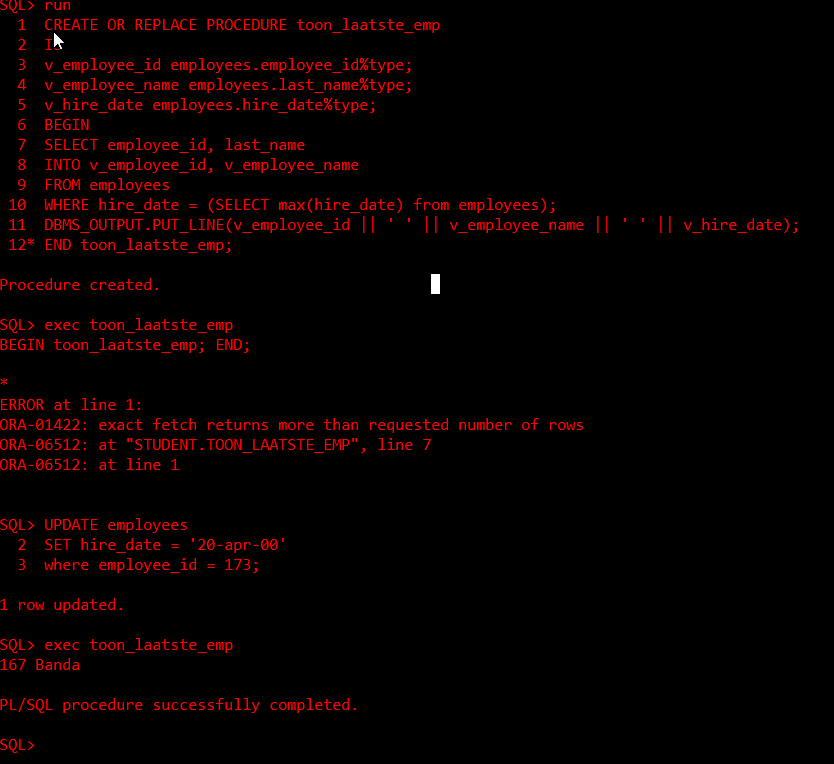




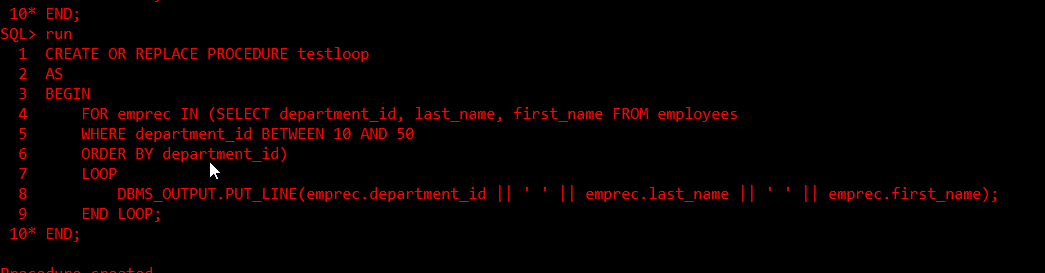
CREATE OR REPLACE FUNCTION manager\_meeste\_werknemers RETURN varchar2 AS v\_voornaam varchar2(40); v\_naam varchar2(40); BEGIN select d.department\_id, count(e.employee\_id) into v\_depid, v\_countemp from departments d join employees e group by d.department\_id having count(e.employee\_id) = (select max(count(department\_id)) from employees group by department\_id); select return v\_voornaam ' ' v\_naam; END; /

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CREATE OR REPLACE PROCEDURE minimumlonen (p\_landnaam IN countries.country\_name%TYPE , p\_nieuw\_minimumloon IN employees.salary%TYPE) AS BEGIN UPDATE employees SET salary = p\_nieuw\_minimumloon WHERE department\_id IN (SELECT e.department\_id FROM employees e join departments d on e.department\_id = d.department\_id join locations l on d.location\_id = l.location\_id join countries c on l.country\_id = c.country\_id WHERE country\_name = p\_landnaam) AND salary < p\_nieuw\_minimumloon; END;

