PT2:

1:

create or replace procedure ex1\_p (al\_reves char)

language plpgsql

as

$$

declare

begin

raise notice '%', REVERSE (al\_reves);

end;

$$

2:

create or replace procedure ex2\_p (data\_any date)

language plpgsql

as

$$

declare

begin

raise notice '%', EXTRACT(year from data\_any);

end;

$$

call ex2\_p ('2000-08-12')

3:

Amb la clausula default on s’agafen les variables permet sumar valors ja que si no tenen valors nulls

create or replace procedure ex3\_p (n1 int default 0, n2 int, n3 int, n4 int, n5 int)

language plpgsql

as

$$

declare

resultat int:= n1 + n2 + n3 + n4 + n5;

begin

raise notice '%', resultat;

end

$$

4:

create or replace procedure ex4\_p (multi int)

language plpgsql

as

$$

declare

i int:= 1;

resultat int:= 0;

begin

while i <= multi loop

resultat = multi \* i;

i = i + 1;

raise notice 'La tabla de multiplicar % x % = %', i, multi, resultat;

end loop;

end;

$$

5:

//Hem dona error

create or replace procedure ex5\_p (Mm char)

language plpgsql

as

$$

begin

if (Mm == 'a' OR 'e' OR 'i' OR 'o' OR 'u')

then

raise notice 'Es una vocal';

else

raise notice 'Es una consonant';

end if;

end

$$

6:

//No es el que demana

create or replace procedure ex\_6 (num int)

language plpgsql

as

$$

declare

contapars int:= 0;

contaimpars int:= 0;

begin

while num >= 1

loop

if (num / 2 = 0)

then

raise notice'El numero es par, numeros pars totals: %', contapars;

contapars = contapars+1;

else

raise notice'El numero es impar, numeros impars totals: %', contaimpars;

contaimpars = contaimpars + 1;

end if;

end loop;

end;

$$

7:

create or replace procedure ex7\_p (num int, num2 int)

language plpgsql

as

$$

declare

contasenars int:= 0;

begin

while num / 2 >= 1

loop

if (num / 2 = 1) AND (num2 / 2 = 1)

then

raise notice 'Algun dels num son impars per lo que no es dura a cap';

else

if (num / 2 = 0)

then

raise notice 'El numero es par';

else

contasenars = contasenars + 1;

raise notice 'El numero es impar: % ', contasenars;

end if;

end if;

end loop;

end;

$$

8:

create or replace procedure ex8\_p (num decimal)

language plpgsql

as

$$

declare

b500 decimal:= 0;

b200 decimal:= 0;

b100 decimal:= 0;

b50 decimal:= 0;

b20 decimal:= 0;

b10 decimal:= 0;

b5 decimal:= 0;

m2 decimal:= 0;

m1 decimal:= 0;

m50c decimal:= 0;

m20c decimal:= 0;

m10c decimal:= 0;

m05c decimal:= 0;

m02c decimal:= 0;

m01c decimal:= 0;

begin

while num <= 0

loop

if (num > 500)

then

b500 = b500 + 1;

num = num - 500;

else if (num > 200)

then

b200 = b200 + 1;

num = num - 200;

else if (num > 100)

then

b100 = b100 + 1;

num = num - 100;

else if (num > 50)

then

b50 = b50 + 1;

num = num - 50;

else if (num > 20)

then

b20 = b20 + 1;

num = num - 20;

else if (num > 10)

then

b10 = b10 + 1;

num = num - 10;

else if (num > 5)

then

b5 = b5 + 1;

num = num - 5;

else if (num > 2)

then

m2 = m2 + 1;

num = num - 2;

else if (num > 1)

then

m1 = m1 + 1;

num = num - 1;

else if (num > 0.50)

then

m50c = m50c + 1;

num = num - 0.50;

else if (num > 0.20)

then

m20c = m20c + 1;

num = num - 0.20;

else if (num > 0.10)

then

m10c = m10c + 1;

num = num - 0.10;

else if (num > 0.05)

then

m05c = m05c + 1;

num = num - 0.05;

else if (num > 0.02)

then

m02c = m02 + 1;

num = num - 0.02;

else if (num > 0.01)

then

m01c = m01c + 1;

num = num - 0.01;

end if;

end loop;

end;

$$

9:

create or replace procedure ex9\_p (nota integer, edat integer, sexe char)

language plpgsql

as

$$

begin

if nota >= 5 AND edat >= 18 AND sexe = 'M'

then

raise notice 'ACCEPTADA';

elseif nota >= 5 AND edat >= 18 AND sexe = 'V'

then

raise notice 'POSSIBLE';

else

raise notice 'Arguments incorrectes';

end if;

end;

$$

10:

create or replace procedure ex10\_p (base integer, exponent integer)

language plpgsql

as

$$

declare

potencia integer:= 0;

begin

if base = 0 AND exponent = 0

then

raise notice 'Dades erronies';

elseif exponent = 0

then

raise notice 'La potencia es 1';

elseif exponent < 0

then

potencia = 0;

raise notice 'Pot = 1 / base \* exp';

elseif base = 0

then

raise notice 'Dades erronies';

end if;

end;

$$

11:

CREATE OR REPLACE PROCEDURE ex11\_p (num integer)

language plpgsql

as

$$

begin

loop

while num <= 50

INSERT INTO Tabla\_Numeros(num)

VALUES (num);

num = num + 1;

end loop;

end;

$$

FUNCIONS:

1:

SET DATESTYLE TO SQL, EUROPEAN;

create or replace function ex1\_function(data1 date, data2 date)

returns int

language plpgsql

as

$$

declare

contador int:= 0;

begin

for cfor in 1..10 loop

if(EXTRACT(year from data1 - data2))

then

contador = contador + 1;

end if;

end loop;

end;

$$

2:

create or replace function ex2\_function(data1 date, data2 date)

returns int

language plpgsql

as

$$

declare

contadortrieni int:= 0;

begin

for cfor in 3..12

loop

if(EXTRACT(year from data1 - data2))

then

contadortrieni = contadortrieni + 1;

end if;

end loop;

end;

$$

3: