

Correction de l'activité 6.1

Exercice 1 :

CREATE OR REPLACE FUNCTION nbParts() RETURNS INTEGER AS \$\$

DECLARE

n INTEGER;

BEGIN

SELECT COUNT(*) INTO n FROM parts;

RETURN n;

END

\$\$ LANGUAGE plpgsql;

Ecole/postgres@PostgreSQL 12	
Query Editor	Query History
1	SELECT nbParts();
Data Output Explain Messages Notifications	
	nbparts integer
1	9

CREATE OR REPLACE FUNCTION nbParts() RETURNS INTEGER AS \$\$

DECLARE

n INTEGER;

BEGIN

SELECT COUNT(*) INTO n FROM parts;

IF n > 6 THEN

RAISE EXCEPTION 'Trop de pièces (%) !', n;

END IF;

RETURN n;

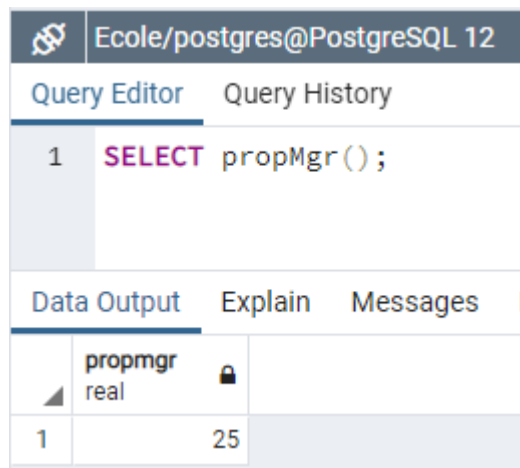
END

\$\$ LANGUAGE plpgsql;

Ecole/postgres@PostgreSQL 12	
Query Editor	Query History
1	SELECT nbParts();
Data Output Explain Messages Notifications	
ERROR: ERREUR: Trop de piŞces (9) ! CONTEXT: fonction PL/pgSQL nbparts(), ligne 7 à RAISE	
SQL state: P0001	

Exercise 2 :

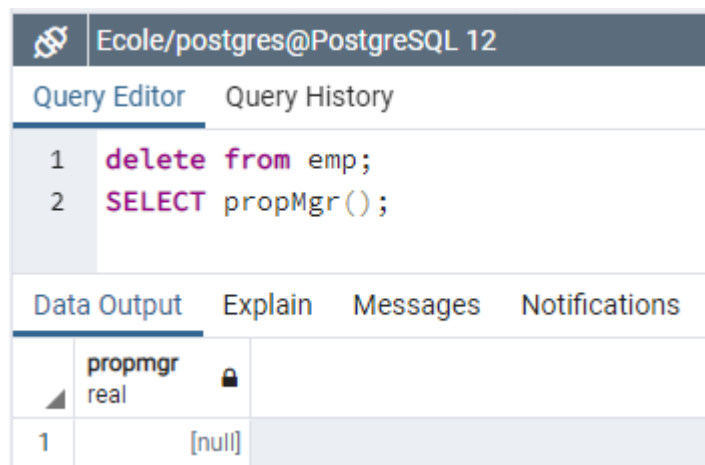
```
CREATE OR REPLACE FUNCTION propMgr() RETURNS REAL AS $$
DECLARE
    nTot INTEGER; -- Nombre total d'employés
    nMan INTEGER; -- Nombre de managers
BEGIN
    SELECT COUNT(*) INTO nTot FROM emp;
    SELECT COUNT(*) INTO nMan FROM emp WHERE job = 'MANAGER';
    RETURN 100 * nMan / nTot ::REAL;
END
$$ LANGUAGE plpgsql;
```



The screenshot shows the PostgreSQL Query Editor interface. The top bar indicates the user is 'Ecole/postgres@PostgreSQL 12'. Below the bar, there are tabs for 'Query Editor' and 'Query History'. The 'Query Editor' tab is active, showing a single query: `1 SELECT propMgr();`. Below the query editor, there are tabs for 'Data Output', 'Explain', and 'Messages'. The 'Data Output' tab is active, displaying the result of the query. The result is a single row with the value 25.

	propmgr real
1	25

```
CREATE OR REPLACE FUNCTION propMgr() RETURNS REAL AS $$
DECLARE
    nTot INTEGER; -- Nombre total d'employés
    nMan INTEGER; -- Nombre de managers
BEGIN
    SELECT COUNT(*) INTO nTot FROM emp;
    SELECT COUNT(*) INTO nMan FROM emp WHERE job = 'MANAGER';
    RETURN 100 * nMan / nTot ::REAL;
EXCEPTION
    WHEN division_by_zero THEN RETURN NULL;
END
$$ LANGUAGE plpgsql;
```



The screenshot shows the PostgreSQL Query Editor interface. The top bar indicates the user is 'Ecole/postgres@PostgreSQL 12'. Below the bar, there are tabs for 'Query Editor' and 'Query History'. The 'Query Editor' tab is active, showing two queries: `1 delete from emp;` and `2 SELECT propMgr();`. Below the query editor, there are tabs for 'Data Output', 'Explain', 'Messages', and 'Notifications'. The 'Data Output' tab is active, displaying the result of the second query. The result is a single row with the value [null].

	propmgr real
1	[null]