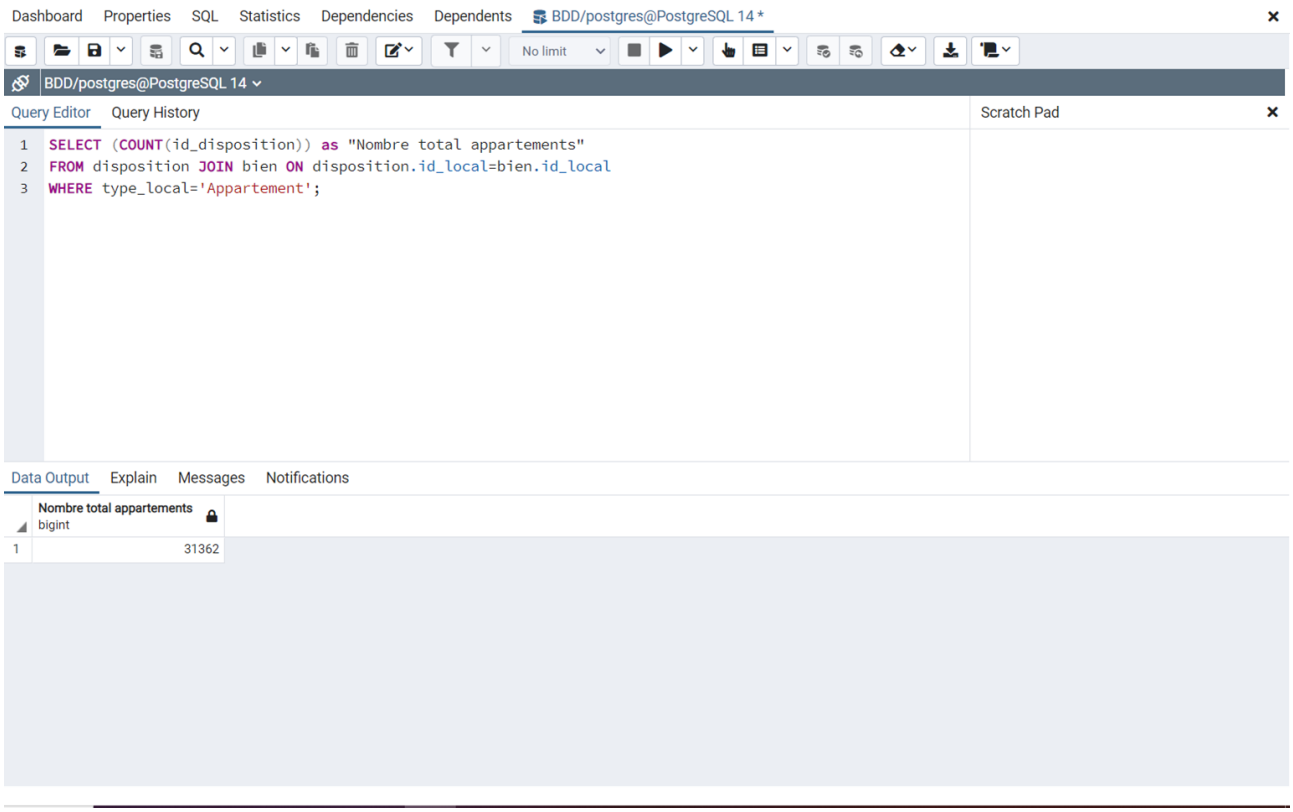
Requêtes SQL

1. Nombre total d'appartements vendus au 1er semestre 2020.

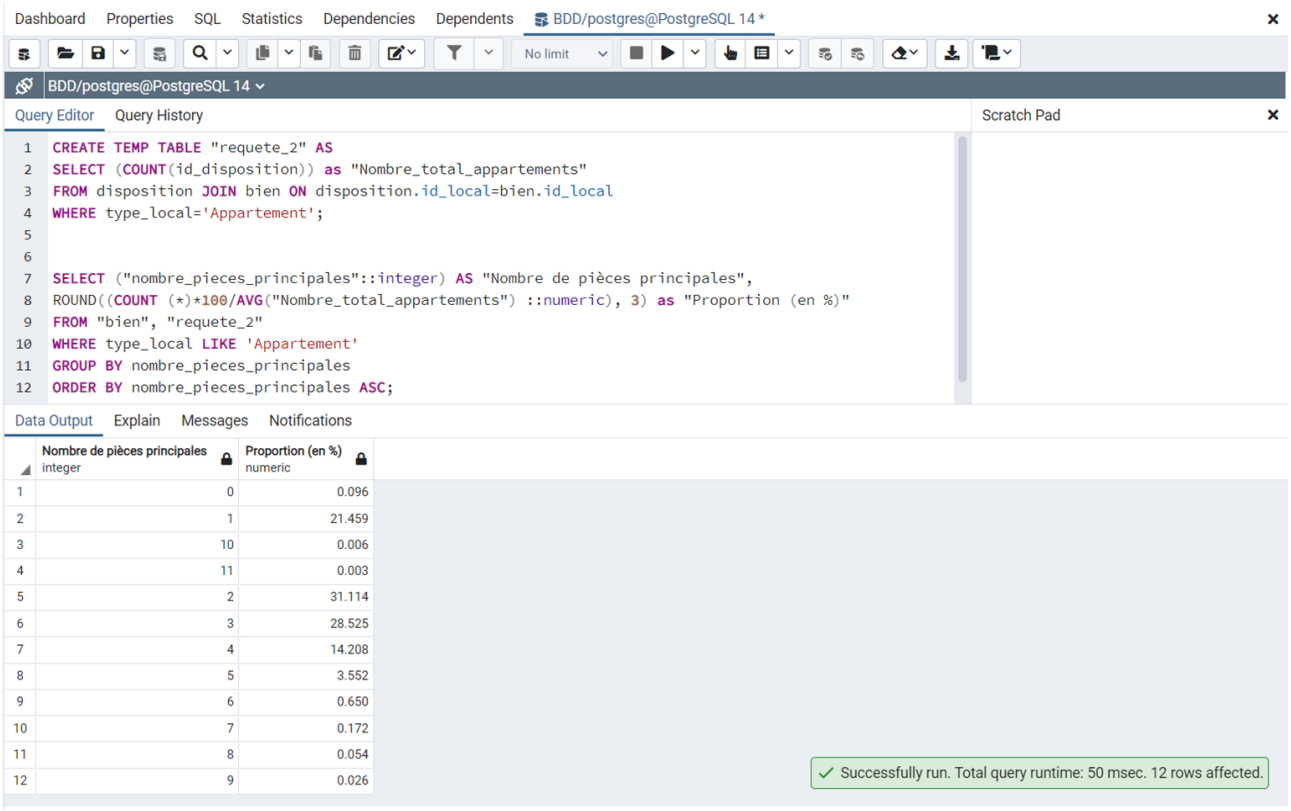
```
SELECT (COUNT(id_disposition)) as "Nombre total appartements"
FROM disposition JOIN bien ON disposition.id_local=bien.id_local
WHERE type_local='Appartement';
```



2. Proportion des ventes d'appartements par le nombre de pièces.

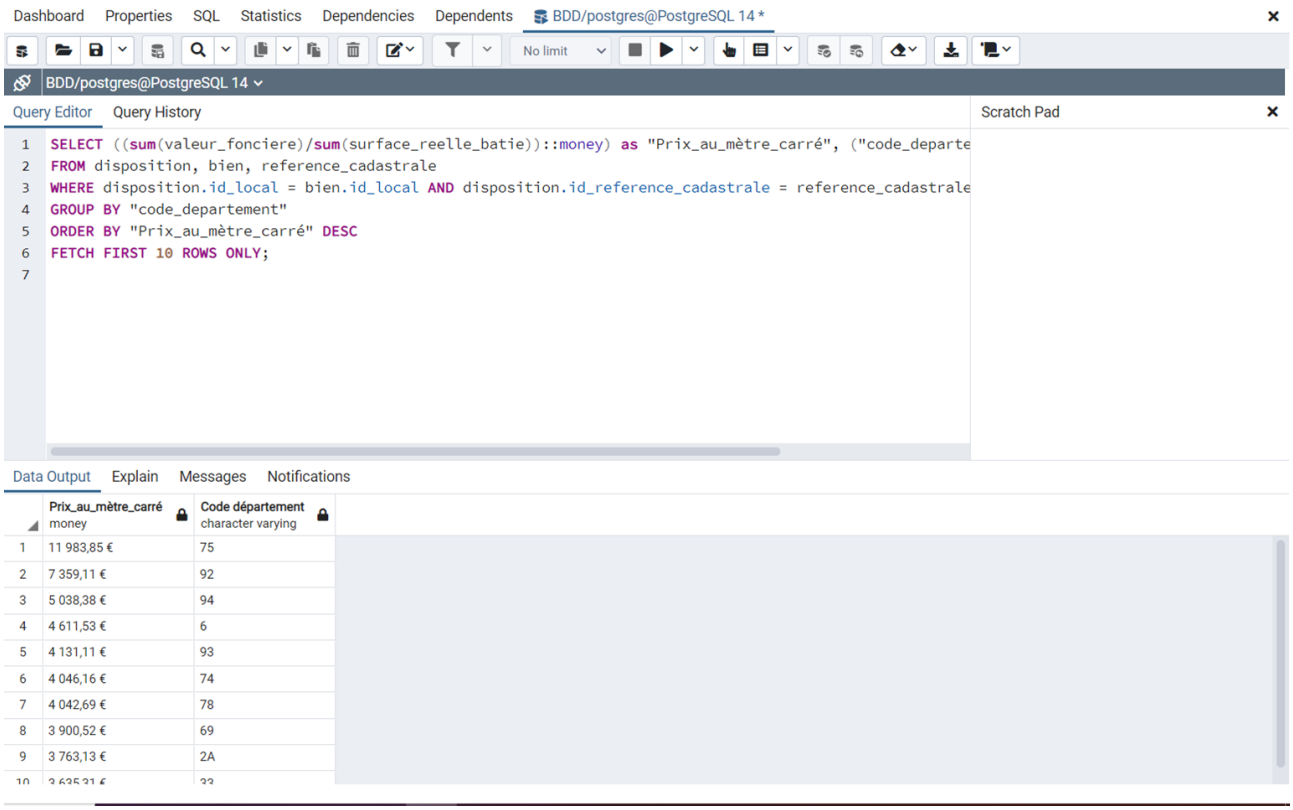
```
CREATE TEMP TABLE "requete_2" AS
SELECT (COUNT(id_disposition)) as "Nombre_total_appartements"
FROM disposition JOIN bien ON disposition.id_local=bien.id_local
WHERE type_local='Appartement';
```

```
SELECT ("nombre_pieces_principales"::integer) AS "Nombre de pièces principales",
ROUND((COUNT (*)*100/AVG("Nombre_total_appartements") ::numeric), 3) as "Proportion
(en %)"
FROM "bien", "requete_2"
WHERE type_local LIKE 'Appartement'
GROUP BY nombre_pieces_principales
ORDER BY nombre_pieces_principales ASC;
```



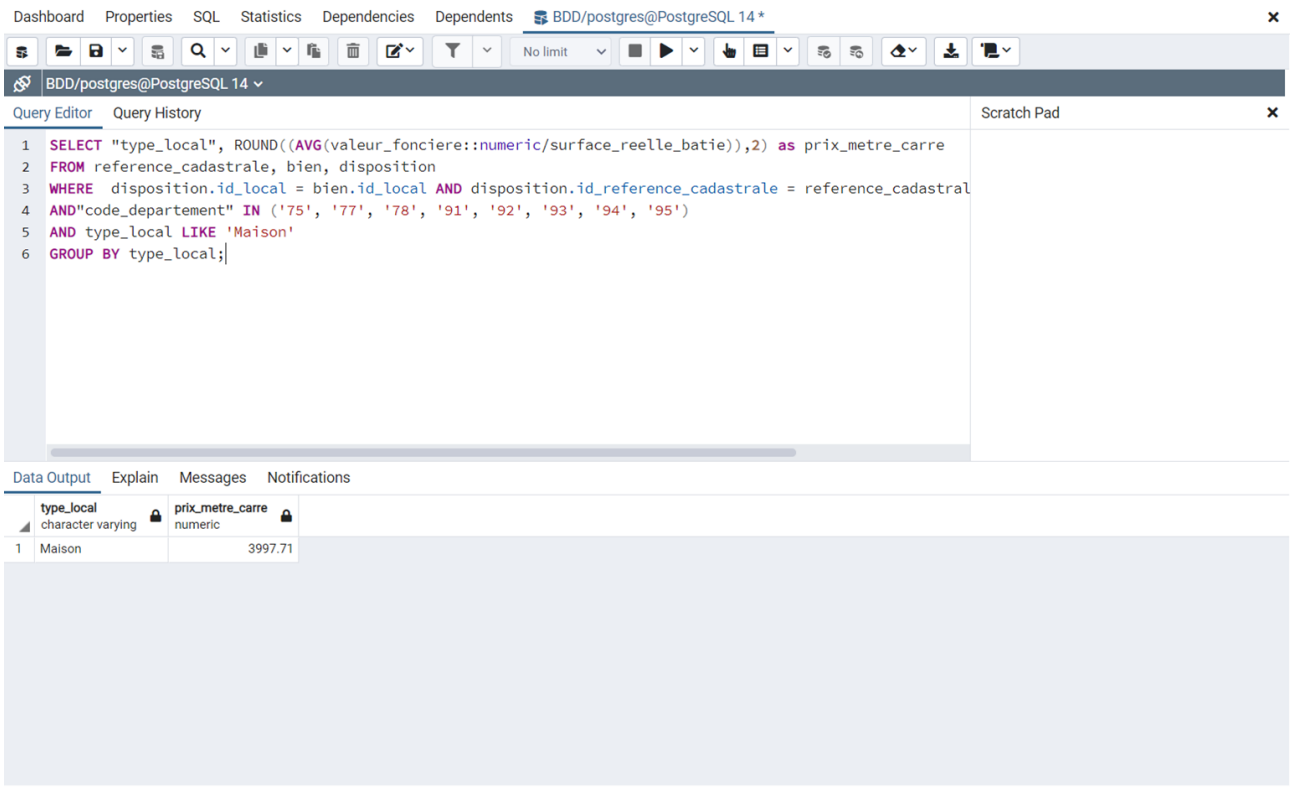
3. Liste des 10 départements où le prix du mètre carré est le plus élevé.

SELECT ((sum(valeur_fonciere)/sum(surface_reelle_batie))::money) as "Prix_au_mètre_carré",
("code_departement") AS "Code département"
FROM disposition, bien, reference_cadastrale
WHERE disposition.id_local = bien.id_local AND disposition.id_reference_cadastrale =
reference_cadastrale.id_reference_cadastrale
GROUP BY "code_departement"
ORDER BY "Prix_au_mètre_carré" DESC
FETCH FIRST 10 ROWS ONLY;



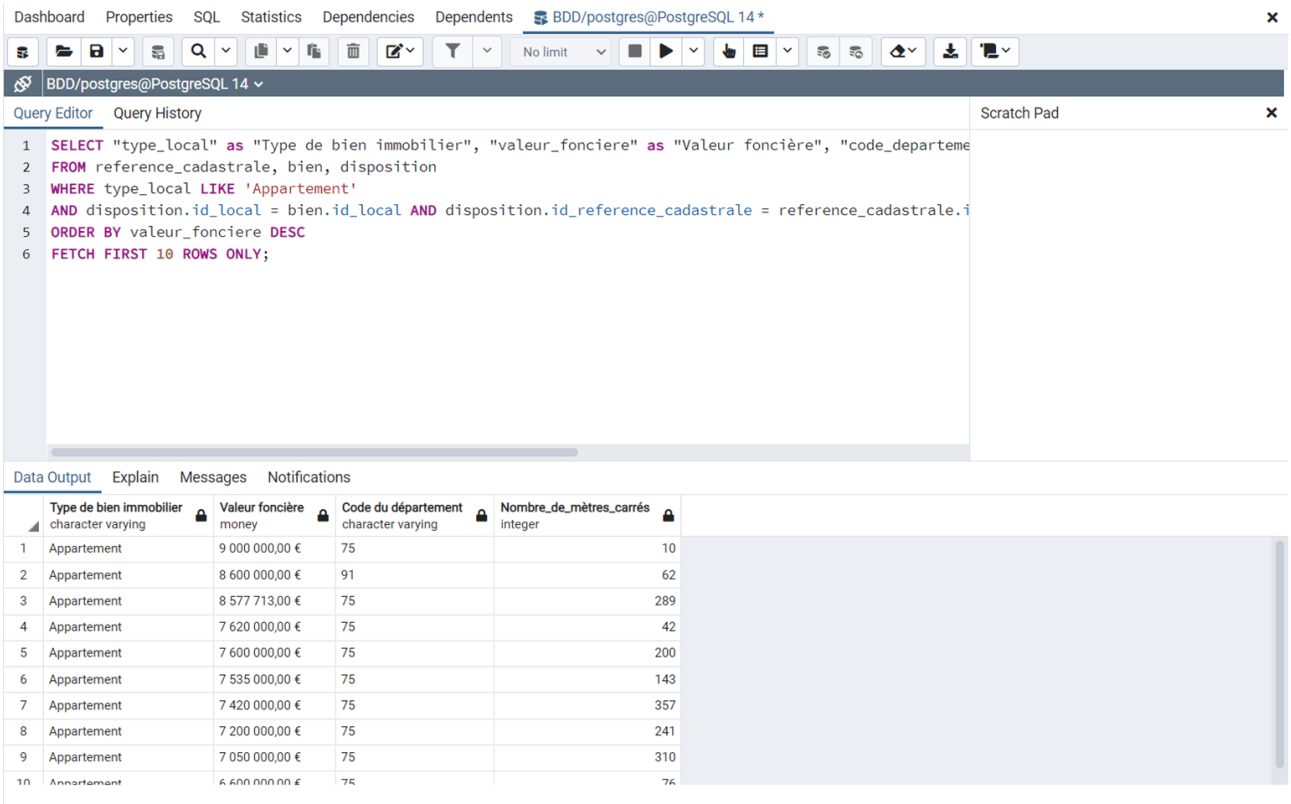
4. Prix moyen du mètre carré d’une maison en Île-de-France.

SELECT "type_local", ROUND((AVG(valeur_fonciere::numeric/surface_reelle_batie)),2) as prix_metre_carre
FROM reference_cadastrale, bien, disposition
WHERE disposition.id_local = bien.id_local AND disposition.id_reference_cadastrale = reference_cadastrale.id_reference_cadastrale
AND"code_departement" IN ('75', '77', '78', '91', '92', '93', '94', '95')
AND type_local LIKE 'Maison'
GROUP BY type_local;



5. Liste des 10 appartements les plus chers avec le département et le nombre de mètres carrés.

SELECT "type_local" as "Type de bien immobilier", "valeur_fonciere" as "Valeur foncière", "code_departement" as "Code du département", "surface_reelle_batie" as "Nombre_de_mètres_carrés"
FROM reference_cadastrale, bien, disposition
WHERE type_local LIKE 'Appartement'
AND disposition.id_local = bien.id_local AND disposition.id_reference_cadastrale = reference_cadastrale.id_reference_cadastrale
ORDER BY valeur_fonciere DESC
FETCH FIRST 10 ROWS ONLY;



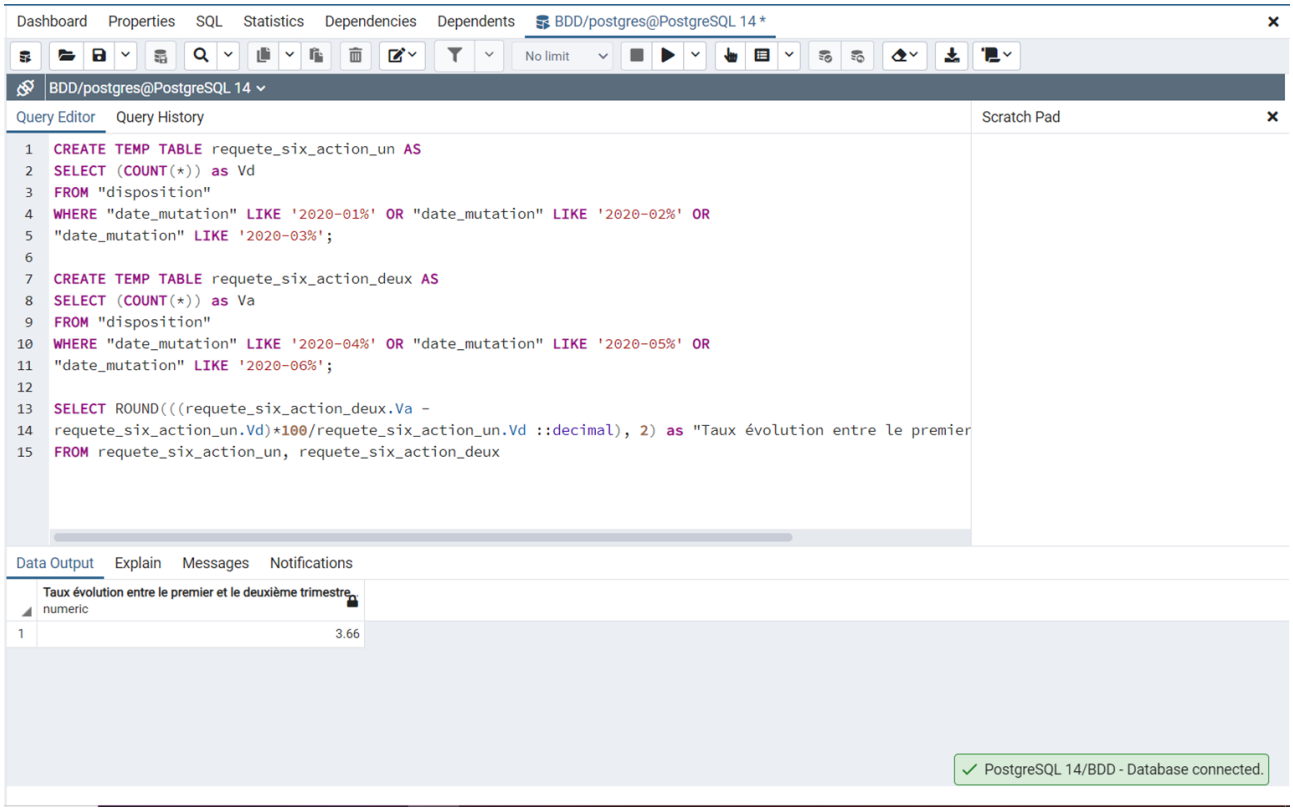
	Type de bien immobilier character varying	Valeur foncière money	Code du département character varying	Nombre_de_mètres_carrés integer
1	Appartement	9 000 000,00 €	75	10
2	Appartement	8 600 000,00 €	91	62
3	Appartement	8 577 713,00 €	75	289
4	Appartement	7 620 000,00 €	75	42
5	Appartement	7 600 000,00 €	75	200
6	Appartement	7 535 000,00 €	75	143
7	Appartement	7 420 000,00 €	75	357
8	Appartement	7 200 000,00 €	75	241
9	Appartement	7 050 000,00 €	75	310
10	Appartement	6 600 000,00 €	75	76

6. Taux d’évolution du nombre de ventes entre le premier et le second trimestre de 2020.

```
CREATE TEMP TABLE requete_six_action_un AS
SELECT (COUNT(*)) as Vd
FROM "disposition"
WHERE "date_mutation" LIKE '2020-01%' OR "date_mutation" LIKE '2020-02%' OR
"date_mutation" LIKE '2020-03%';

CREATE TEMP TABLE requete_six_action_deux AS
SELECT (COUNT(*)) as Va
FROM "disposition"
WHERE "date_mutation" LIKE '2020-04%' OR "date_mutation" LIKE '2020-05%' OR
"date_mutation" LIKE '2020-06%';

SELECT ROUND(((requete_six_action_deux.Va -
requete_six_action_un.Vd)*100/requete_six_action_un.Vd ::decimal), 2) as "Taux évolution entre
le premier et le deuxième trimestre"
FROM requete_six_action_un, requete_six_action_deux
```

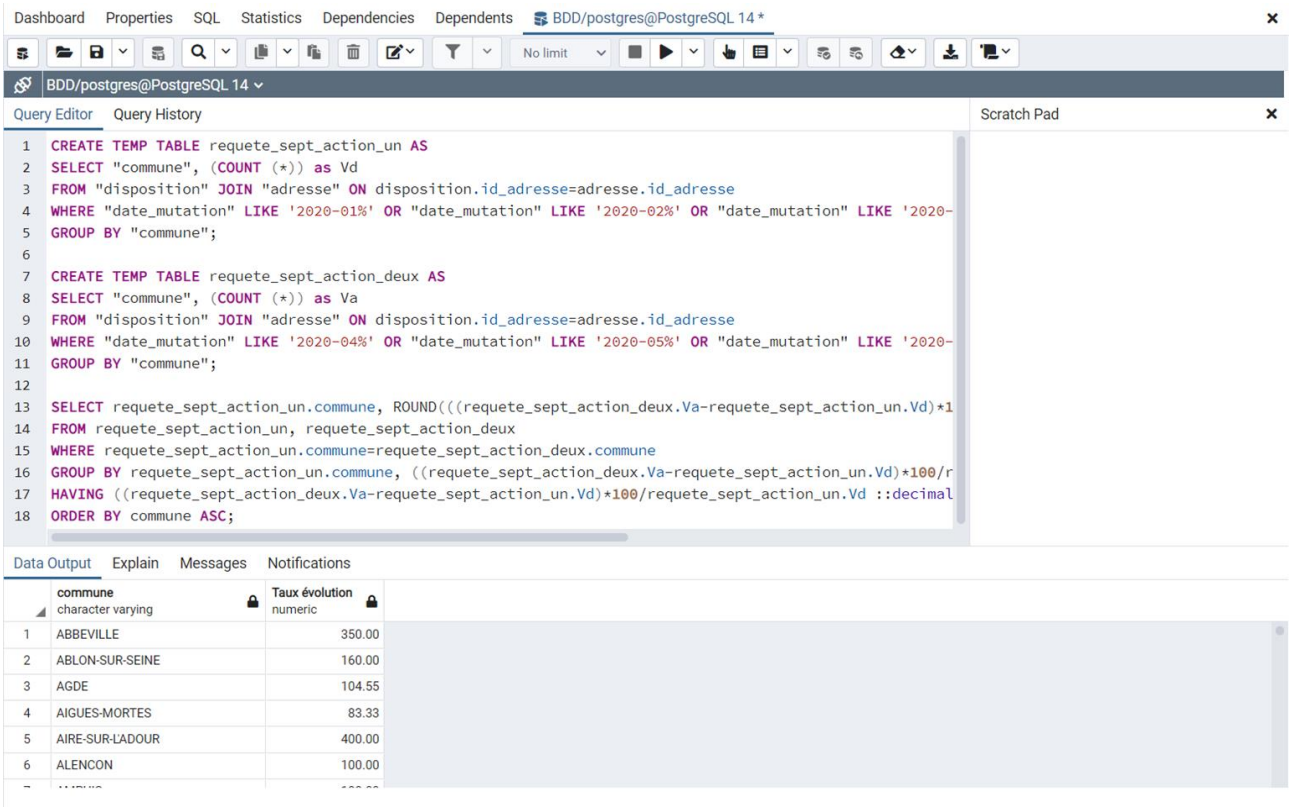


7. Liste des communes où le nombre de ventes a augmenté d'au moins 20% entre le premier et le second trimestre de 2020.

```
CREATE TEMP TABLE requete_sept_action_un AS
SELECT "commune", (COUNT (*)) as Vd
FROM "disposition" JOIN "adresse" ON disposition.id_adresse=adresse.id_adresse
WHERE "date_mutation" LIKE '2020-01%' OR "date_mutation" LIKE '2020-02%' OR
"date_mutation" LIKE '2020-03%'
GROUP BY "commune";

CREATE TEMP TABLE requete_sept_action_deux AS
SELECT "commune", (COUNT (*)) as Va
FROM "disposition" JOIN "adresse" ON disposition.id_adresse=adresse.id_adresse
WHERE "date_mutation" LIKE '2020-04%' OR "date_mutation" LIKE '2020-05%' OR
"date_mutation" LIKE '2020-06%'
GROUP BY "commune";

SELECT requete_sept_action_un.commune, ROUND(((requete_sept_action_deux.Va-
requete_sept_action_un.Vd)*100/requete_sept_action_un.Vd ::decimal),2) as "Taux évolution"
FROM requete_sept_action_un, requete_sept_action_deux
WHERE requete_sept_action_un.commune=requete_sept_action_deux.commune
GROUP BY requete_sept_action_un.commune, ((requete_sept_action_deux.Va-
requete_sept_action_un.Vd)*100/requete_sept_action_un.Vd ::decimal)
HAVING ((requete_sept_action_deux.Va-
requete_sept_action_un.Vd)*100/requete_sept_action_un.Vd ::decimal)>20
ORDER BY commune ASC;
```

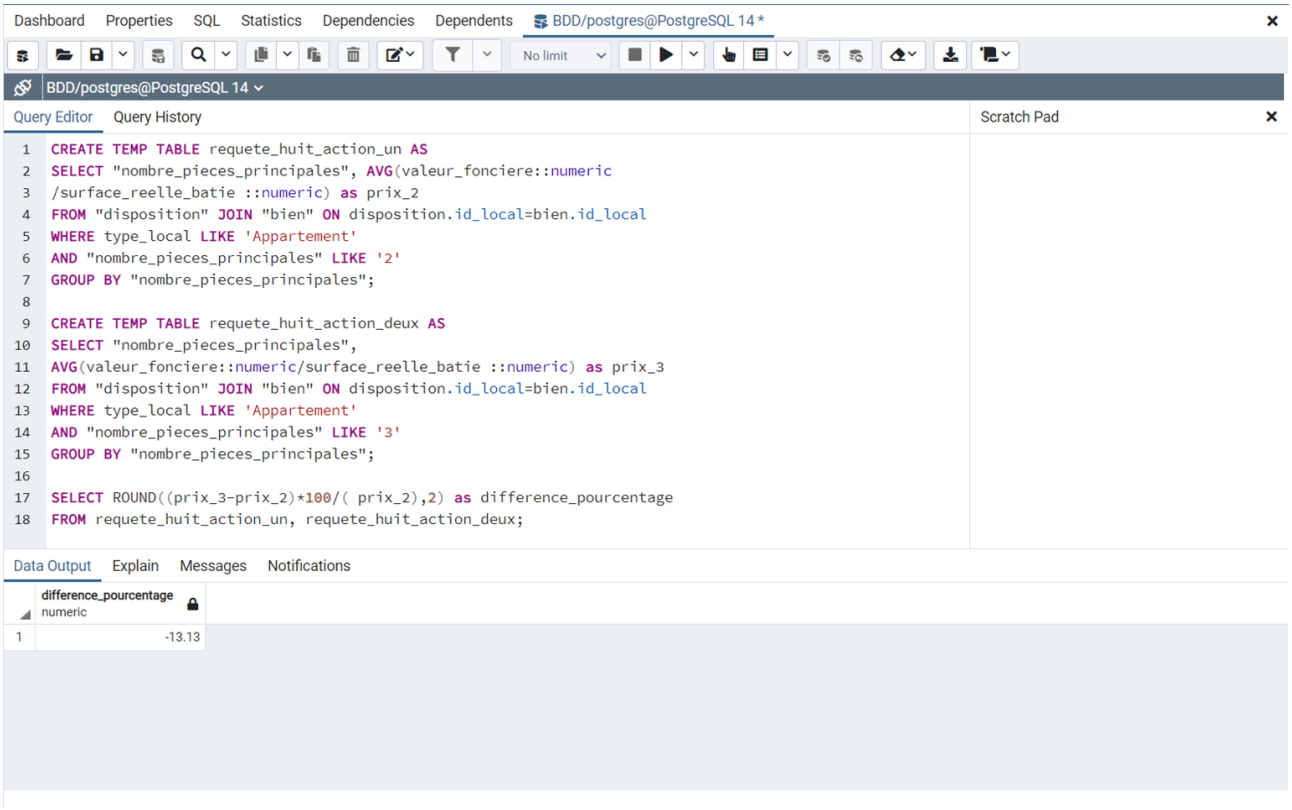


8. Différence en pourcentage du prix au mètre carré entre un appartement de 2 pièces et un appartement de 3 pièces.

```
CREATE TEMP TABLE requete_huit_action_un AS
SELECT "nombre_pieces_principales", AVG(valeur_fonciere::numeric
/surface_reelle_batie ::numeric) as prix_2
FROM "disposition" JOIN "bien" ON disposition.id_local=bien.id_local
WHERE type_local LIKE 'Appartement'
AND "nombre_pieces_principales" LIKE '2'
GROUP BY "nombre_pieces_principales";

CREATE TEMP TABLE requete_huit_action_deux AS
SELECT "nombre_pieces_principales",
AVG(valeur_fonciere::numeric/surface_reelle_batie ::numeric) as prix_3
FROM "disposition" JOIN "bien" ON disposition.id_local=bien.id_local
WHERE type_local LIKE 'Appartement'
AND "nombre_pieces_principales" LIKE '3'
GROUP BY "nombre_pieces_principales";

SELECT ROUND((prix_3-prix_2)*100/( prix_2),2) as difference_pourcentage
FROM requete_huit_action_un, requete_huit_action_deux;
```



9. Les moyennes de valeurs foncières pour le top 3 des communes des départements 6, 13, 33, 59 et 69.

```
CREATE TEMP TABLE requete_neuf_action_un AS
SELECT "commune", "code_departement", "valeur_fonciere"
FROM "disposition"
JOIN "reference_cadastrale" ON disposition.id_reference_cadastrale=
reference_cadastrale.id_reference_cadastrale
JOIN "adresse" ON disposition.id_adresse= adresse.id_adresse
WHERE "code_departement" IN ('6', '13', '33', '59', '69');

CREATE TEMP TABLE requete_neuf_action_six AS
SELECT "commune", AVG("valeur_fonciere":: numeric)
FROM requete_neuf_action_un
GROUP BY "commune";

CREATE TEMP TABLE requete_neuf_action_sept AS
SELECT DISTINCT requete_neuf_action_un.commune, "code_departement", "avg"
FROM requete_neuf_action_un, requete_neuf_action_six
WHERE requete_neuf_action_un.commune=requete_neuf_action_six.commune
ORDER BY "code_departement";

CREATE TEMP TABLE requete_neuf_action_huit AS
SELECT "commune", "code_departement", ROUND("avg",2) as "Moyenne des valeurs foncières
par commune", rank() OVER (PARTITION BY "code_departement" ORDER BY "avg" DESC) as
"Classement par commune"
FROM requete_neuf_action_sept;
```

SELECT *
FROM requete_neuf_action_huit
WHERE "Classement par commune"='1'OR "Classement par commune"='2'OR "Classement par commune"='3';