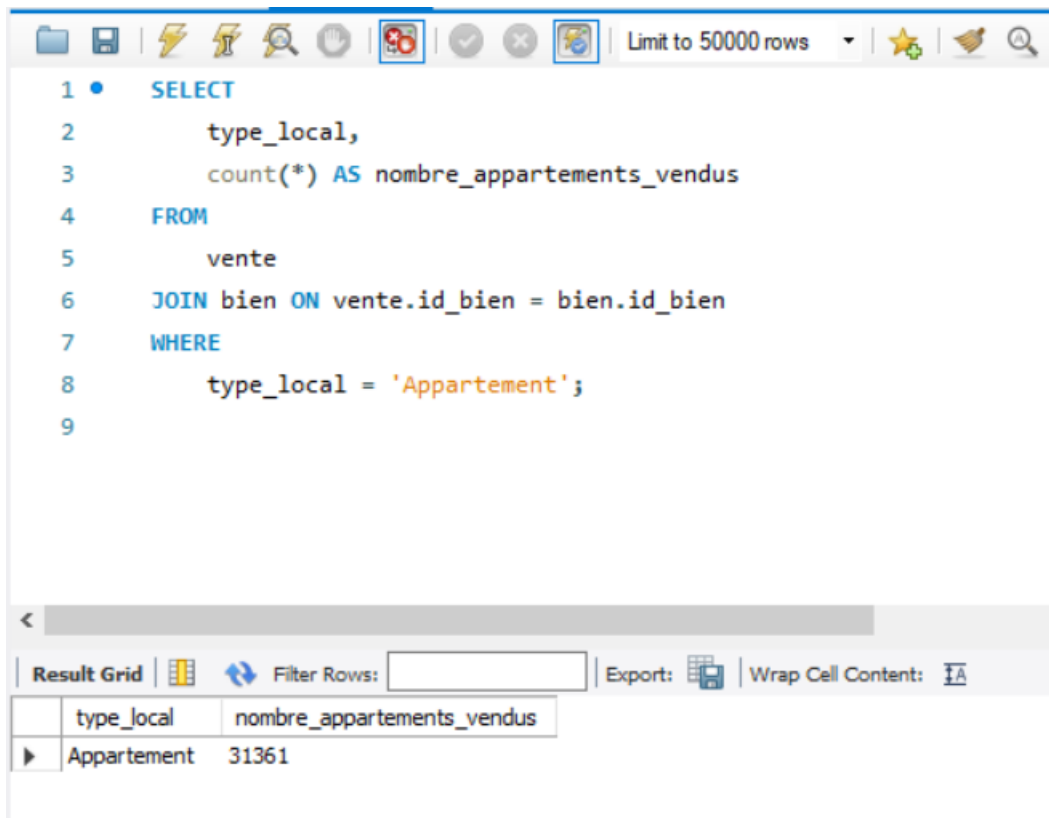


DATAImmo

Requêtes SQL

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



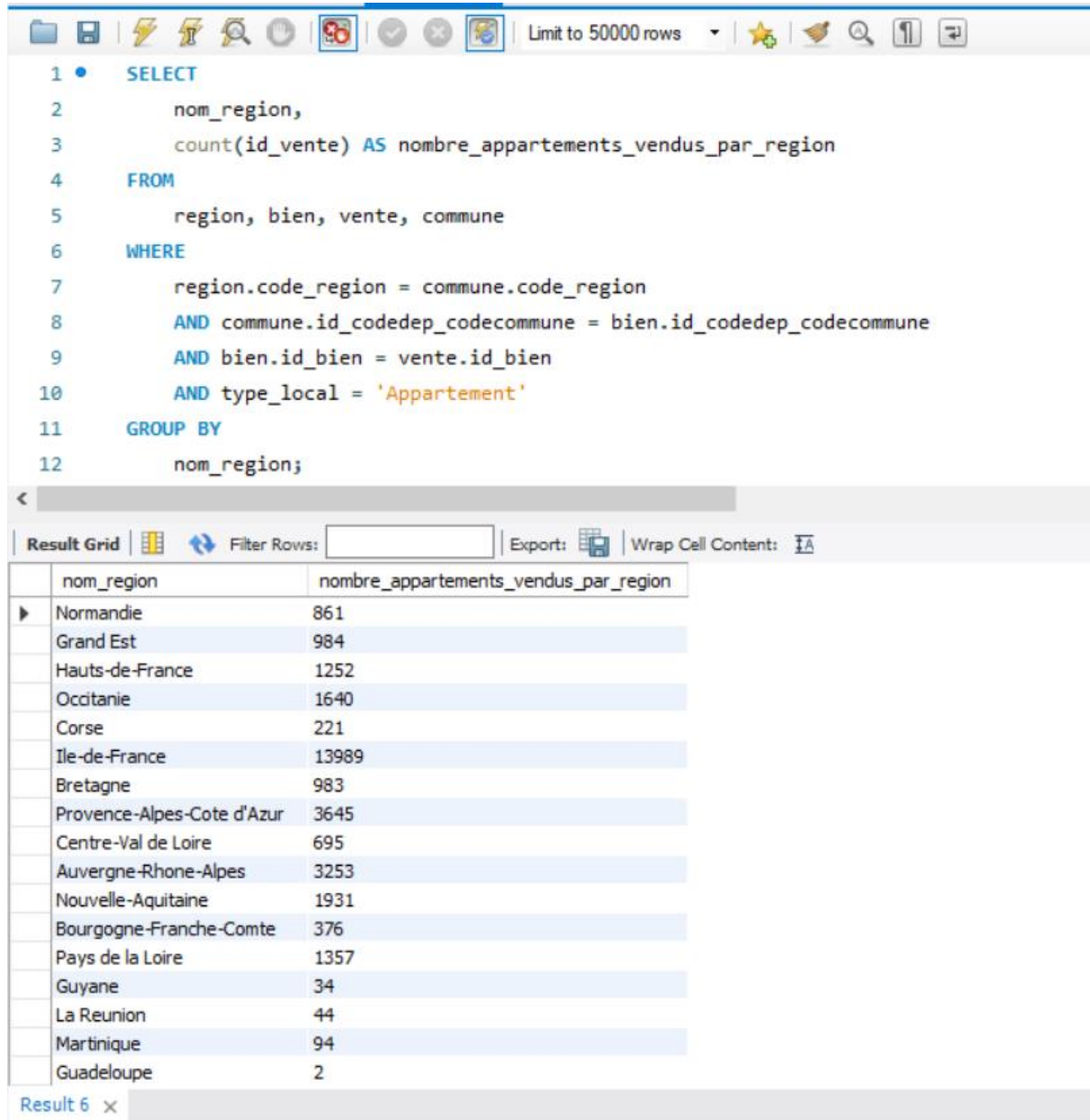
The screenshot shows a SQL query editor interface. The query is as follows:

```
1 • SELECT
2     type_local,
3     count(*) AS nombre_appartements_vendus
4 FROM
5     vente
6 JOIN bien ON vente.id_bien = bien.id_bien
7 WHERE
8     type_local = 'Appartement';
9
```

Below the query editor, there is a toolbar with icons for saving, running, and other functions. To the right of the toolbar, it says "Limit to 50000 rows". Below the query editor, there is a "Result Grid" section with a "Filter Rows" input field and "Export" and "Wrap Cell Content" buttons. The result grid shows the following data:

type_local	nombre_appartements_vendus
Appartement	31361

2. Le nombre de ventes d'appartements par région pour le 1er semestre 2020



```
1 • SELECT
2     nom_region,
3     count(id_vente) AS nombre_appartements_vendus_par_region
4 FROM
5     region, bien, vente, commune
6 WHERE
7     region.code_region = commune.code_region
8     AND commune.id_codedep_codecommune = bien.id_codedep_codecommune
9     AND bien.id_bien = vente.id_bien
10    AND type_local = 'Appartement'
11 GROUP BY
12     nom_region;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

nom_region	nombre_appartements_vendus_par_region
Normandie	861
Grand Est	984
Hauts-de-France	1252
Occitanie	1640
Corse	221
Ile-de-France	13989
Bretagne	983
Provence-Alpes-Cote d'Azur	3645
Centre-Val de Loire	695
Auvergne-Rhone-Alpes	3253
Nouvelle-Aquitaine	1931
Bourgogne-Franche-Comte	376
Pays de la Loire	1357
Guyane	34
La Reunion	44
Martinique	94
Guadeloupe	2

Result 6 x

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

schema data_immo Requete 1 Requete 2 Requete 3 x Requete 4 Requete 5 Requete 6

Limit to 50000 rows

```
1 • SELECT
2     total_piece AS nombre_de_pieces,
3     ROUND(COUNT(type_local)* 100 /
4     (SELECT COUNT(type_local)
5     FROM vente, bien
6     WHERE vente.id_bien = bien.id_bien AND type_local = 'Appartement'),
7     2) AS proportion_appartements_vendus_en_pourcentages
8 FROM
9     vente, bien
10 WHERE
11     bien.id_bien = vente.id_bien
12     AND type_local = 'Appartement'
13 GROUP BY
14     total_piece;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

	nombre_de_pieces	proportion_appartements_vendus_en_pourcentages
▶	3	28.59
	4	14.22
	2	31.16
	1	21.48
	5	3.55
	6	0.65
	7	0.17
	10	0.01
	0	0.10
	8	0.05
	9	0.03
	11	0.00

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

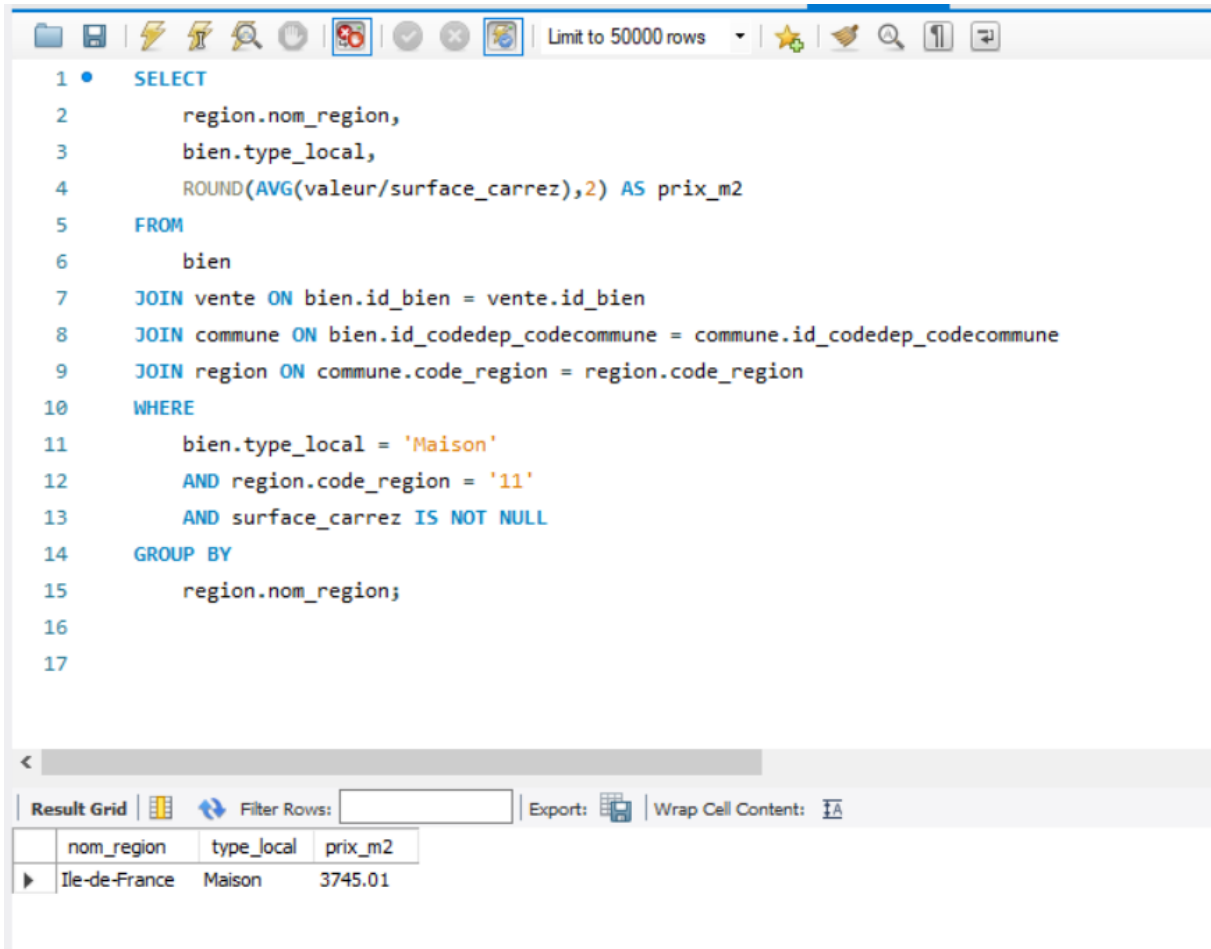
The screenshot shows a SQL query editor with a toolbar at the top containing icons for file operations, execution, and settings. The query is written in SQL and aims to find the top 10 departments based on the average price per square meter. The query is as follows:

```
1 • SELECT
2     commune.code_dep AS departement,
3     ROUND(AVG(valeur/surface_carrez),2) AS prix_m2
4 FROM
5     vente, bien, commune
6 WHERE
7     vente.id_bien = bien.id_bien
8     AND bien.id_codedep_codecommune = commune.id_codedep_codecommune
9     AND surface_carrez IS NOT NULL
10 GROUP BY
11     commune.code_dep
12 ORDER BY
13     (prix_m2) DESC
14 LIMIT 10;
15
```

Below the query editor, there is a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Export' button, a 'Wrap Cell Content' checkbox, and a 'Fetch rows' button. The result grid displays the following data:

	departement	prix_m2
▶	75	12052.89
	92	7219.39
	94	5343.28
	6	4700.33
	74	4667.13
	93	4344.78
	78	4225.25
	69	4059.31
	2A	4032.43
	33	3764.14

5. Prix moyen du mètre carré d'une maison en Île-de-France



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```
1 • SELECT
2     region.nom_region,
3     bien.type_local,
4     ROUND(AVG(valeur/surface_carrez),2) AS prix_m2
5 FROM
6     bien
7 JOIN vente ON bien.id_bien = vente.id_bien
8 JOIN commune ON bien.id_codedep_codecommune = commune.id_codedep_codecommune
9 JOIN region ON commune.code_region = region.code_region
10 WHERE
11     bien.type_local = 'Maison'
12     AND region.code_region = '11'
13     AND surface_carrez IS NOT NULL
14 GROUP BY
15     region.nom_region;
```

Below the query editor, there is a "Result Grid" section. It includes a "Filter Rows:" input field, an "Export:" button, and a "Wrap Cell Content:" checkbox. The result grid displays the following data:

	nom_region	type_local	prix_m2
▶	Ile-de-France	Maison	3745.01

6. Liste des 10 appartements les plus chers avec la région et le nombre de mètres carrés

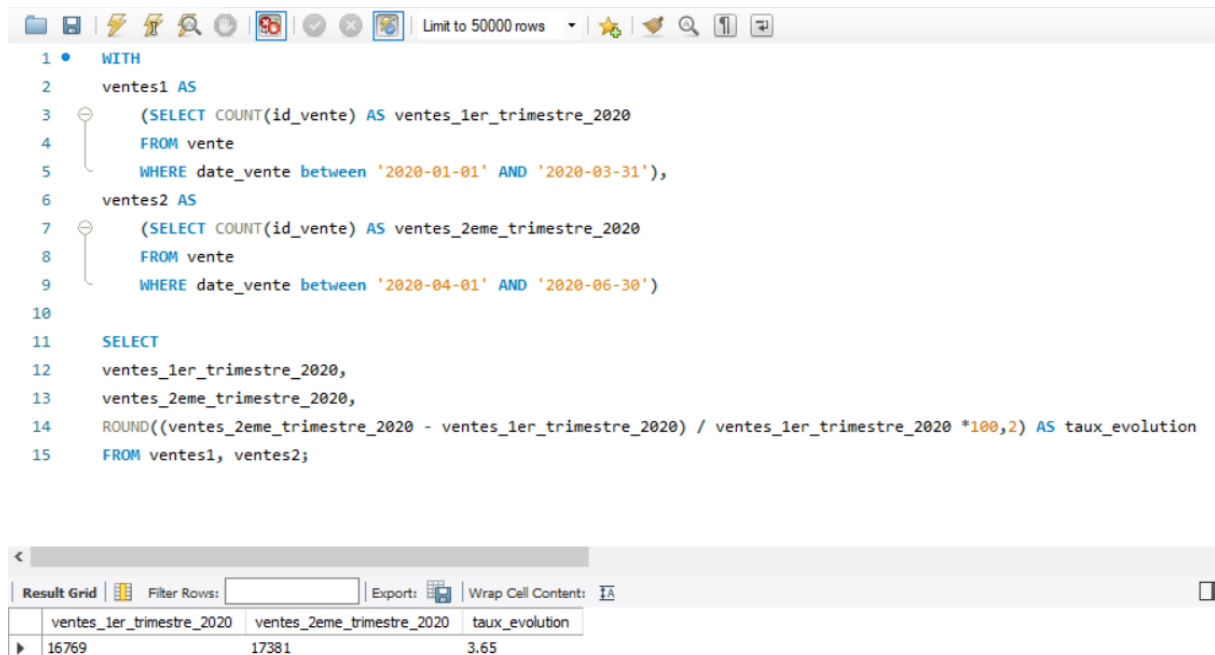
The screenshot shows a SQL query editor interface with a toolbar at the top containing icons for file operations, execution, and search. The query is written in a monospaced font and is as follows:

```
1 • SELECT
2     vente.id_bien,
3     bien.type_local,
4     vente.valeur,
5     region.nom_region,
6     bien.surface_carrez
7 FROM
8     vente, bien, commune, region
9 WHERE
10    region.code_region = commune.code_region
11    AND commune.id_codedep_codecommune = bien.id_codedep_codecommune
12    AND bien.id_bien = vente.id_bien
13    AND bien.type_local = 'Appartement'
14 ORDER BY
15     valeur DESC
16 LIMIT 10;
```

Below the query editor, the 'Result Grid' tab is active, displaying the results of the query in a table. The table has five columns: id_bien, type_local, valeur, nom_region, and surface_carrez. The results show the top 10 most expensive apartments, all located in Ile-de-France.

	id_bien	type_local	valeur	nom_region	surface_carrez
▶	27199	Appartement	9000000	Ile-de-France	9.1
	8020	Appartement	8600000	Ile-de-France	64
	1366	Appartement	8577710	Ile-de-France	20.55
	18199	Appartement	7620000	Ile-de-France	42.77
	29280	Appartement	7600000	Ile-de-France	253.3
	30718	Appartement	7535000	Ile-de-France	139.9
	19196	Appartement	7420000	Ile-de-France	360.95
	13316	Appartement	7200000	Ile-de-France	595
	14463	Appartement	7050000	Ile-de-France	122.56
	1830	Appartement	6600000	Ile-de-France	79.38

7. Taux d'évolution du nombre de ventes entre le premier et le second trimestre de 2020

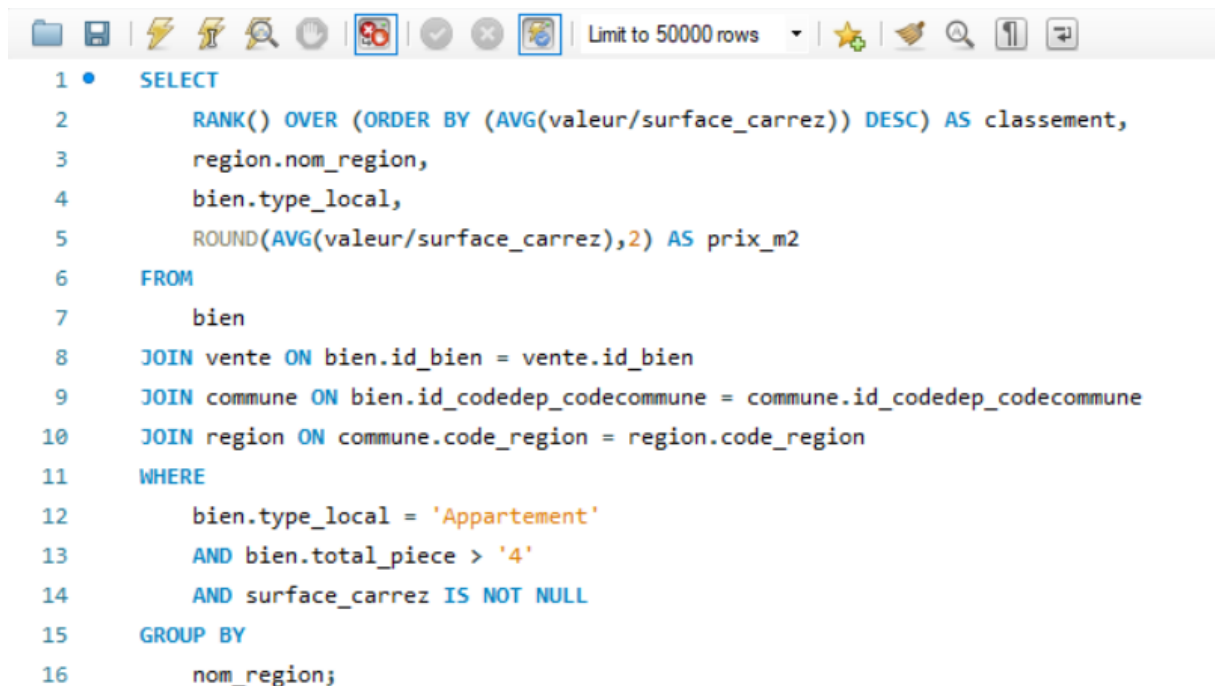


```
1 • WITH
2   ventes1 AS
3     (SELECT COUNT(id_vente) AS ventes_1er_trimestre_2020
4      FROM vente
5      WHERE date_vente between '2020-01-01' AND '2020-03-31'),
6   ventes2 AS
7     (SELECT COUNT(id_vente) AS ventes_2eme_trimestre_2020
8      FROM vente
9      WHERE date_vente between '2020-04-01' AND '2020-06-30')
10
11  SELECT
12    ventes_1er_trimestre_2020,
13    ventes_2eme_trimestre_2020,
14    ROUND((ventes_2eme_trimestre_2020 - ventes_1er_trimestre_2020) / ventes_1er_trimestre_2020 *100,2) AS taux_evolution
15  FROM ventes1, ventes2;
```

Result Grid

	ventes_1er_trimestre_2020	ventes_2eme_trimestre_2020	taux_evolution
▶	16769	17381	3.65

8. Le classement des régions par rapport au prix au mètre carré des appartement de plus de 4 pièces



```
1 • SELECT
2   RANK() OVER (ORDER BY (AVG(valeur/surface_carrez)) DESC) AS classement,
3   region.nom_region,
4   bien.type_local,
5   ROUND(AVG(valeur/surface_carrez),2) AS prix_m2
6  FROM
7   bien
8  JOIN vente ON bien.id_bien = vente.id_bien
9  JOIN commune ON bien.id_codedep_codecommune = commune.id_codedep_codecommune
10 JOIN region ON commune.code_region = region.code_region
11 WHERE
12   bien.type_local = 'Appartement'
13   AND bien.total_piece > '4'
14   AND surface_carrez IS NOT NULL
15 GROUP BY
16   nom_region;
```

	classement	nom_region	type_local	prix_m2
▶	1	Ile-de-France	Appartement	8770.44
	2	La Reunion	Appartement	3641.81
	3	Provence-Alpes-Cote d'Azur	Appartement	3587.65
	4	Corse	Appartement	3104.88
	5	Auvergne-Rhone-Alpes	Appartement	2891.38
	6	Nouvelle-Aquitaine	Appartement	2465.48
	7	Bretagne	Appartement	2412.05
	8	Pays de la Loire	Appartement	2315.76
	9	Hauts-de-France	Appartement	2189.93
	10	Occitanie	Appartement	2097.23
	11	Normandie	Appartement	2015.77
	12	Grand Est	Appartement	1540.89
	13	Centre-Val de Loire	Appartement	1453.11
	14	Bourgogne-Franche-Comte	Appartement	1251.19
	15	Martinique	Appartement	573.48

9. Liste des communes ayant eu au moins 50 ventes au 1er trimestre

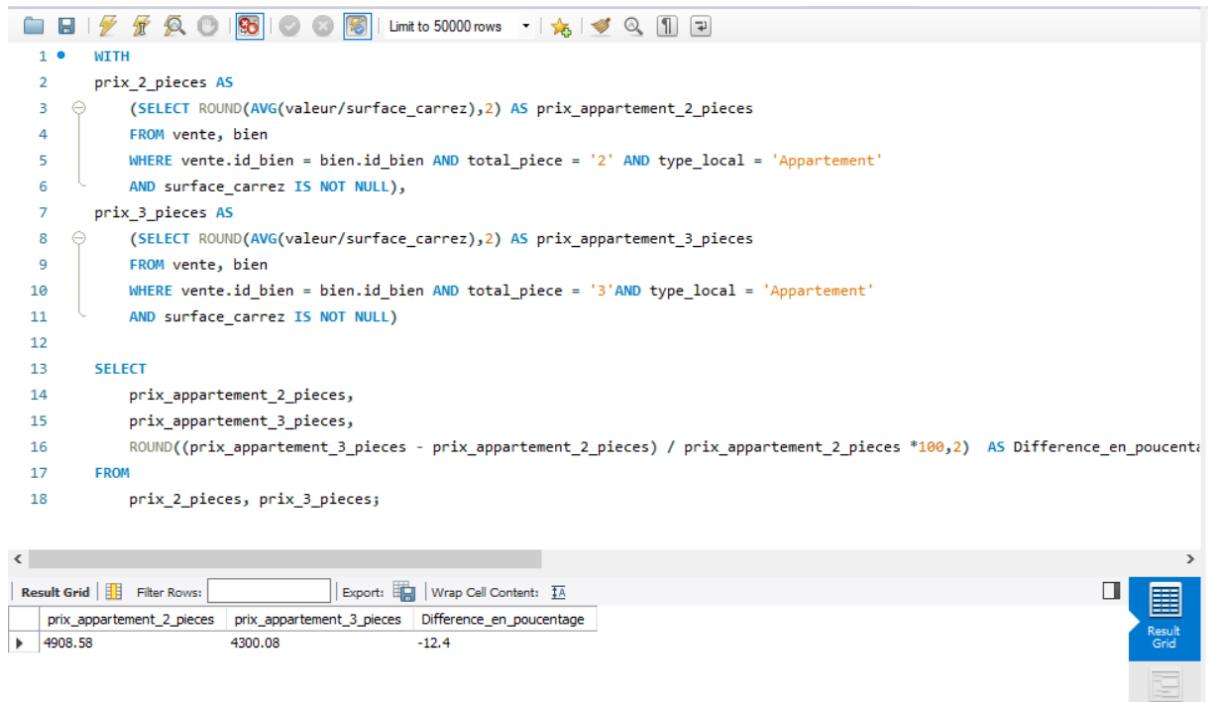
```

1 • SELECT
2     commune.nom_commune,
3     commune.code_dep AS code_departement,
4     COUNT(id_vente) AS nombre_de_ventes
5 FROM
6     vente
7 JOIN bien ON vente.id_bien = bien.id_bien
8 JOIN commune ON bien.id_codedep_codecommune = commune.id_codedep_codecommune
9 WHERE
10     date_vente BETWEEN '2020-01-01' AND '2020-03-31'
11 GROUP BY
12     nom_commune
13 HAVING
14     nombre_de_ventes >= '50'
15 ORDER BY
16     nombre_de_ventes DESC;
17

```


nom_commune	code_departement	nombre_de_ventes
PARIS 17	75	228
PARIS 15	75	215
PARIS 18	75	209
NICE	6	173
PARIS 11	75	169
PARIS 16	75	165
BORDEAUX	33	157
PARIS 14	75	146
PARIS 20	75	127
NANTES	44	119
PARIS 19	75	116
PARIS 12	75	110
PARIS 10	75	109
PARIS 09	75	106
GRENOBLE	38	106
BOULOGNE-BILLANCOURT	92	99
PARIS 13	75	94
PARIS 07	75	87
PARIS 06	75	86
MARSEILLE 8EME	13	81
ASNIERES-SUR-SEINE	92	81
COURBEVOIE	92	80
PARIS 05	75	79
PARIS 03	75	79
TOULOUSE	31	78
ANTIBES	6	77
MARSEILLE 4EME	13	72
MARSEILLE 1ER	13	71
VINCENNES	94	68
RUEIL-MALMAISON	92	68
LILLE	59	67
MARSEILLE 9EME	13	66
MONTREUIL	93	65
ANGERS	49	64
NIMES	30	63
LA CIOTAT	13	62
SETE	34	62
PARIS 08	75	62
PARIS 02	75	61
RENNES	35	61
LEVALLOIS-PERRET	92	59
PARIS 04	75	59
TOULON	83	59
SAINT-MAUR-DES-FOSSES	94	56
VERSAILLES	78	54
AJACCIO	2A	54
PUTEAUX	92	53
ISSY-LES-MOULINEAUX	92	50

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



```
1 • WITH
2   prix_2_pieces AS
3   (SELECT ROUND(AVG(valeur/surface_carrez),2) AS prix_appartement_2_pieces
4    FROM vente, bien
5    WHERE vente.id_bien = bien.id_bien AND total_piece = '2' AND type_local = 'Appartement'
6    AND surface_carrez IS NOT NULL),
7   prix_3_pieces AS
8   (SELECT ROUND(AVG(valeur/surface_carrez),2) AS prix_appartement_3_pieces
9    FROM vente, bien
10   WHERE vente.id_bien = bien.id_bien AND total_piece = '3' AND type_local = 'Appartement'
11   AND surface_carrez IS NOT NULL)
12
13  SELECT
14     prix_appartement_2_pieces,
15     prix_appartement_3_pieces,
16     ROUND((prix_appartement_3_pieces - prix_appartement_2_pieces) / prix_appartement_2_pieces *100,2) AS Difference_en_poucentage
17  FROM
18     prix_2_pieces, prix_3_pieces;
```

Result Grid

	prix_appartement_2_pieces	prix_appartement_3_pieces	Difference_en_poucentage
▶	4908.58	4300.08	-12.4

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

```
1 • WITH
2   table_1 AS
3   (SELECT
4     RANK() OVER (PARTITION BY code_dep ORDER BY (AVG(valeur)) DESC) AS classement,
5     code_dep AS departement,
6     nom_commune,
7     ROUND(AVG(valeur)) AS moyenne_valeur_fonciere
8   FROM vente, bien, commune
9   WHERE vente.id_bien = bien.id_bien
10     AND commune.id_codedep_codecommune = bien.id_codedep_codecommune
11     AND code_dep IN ('6','13','33','59','69')
12   GROUP BY
13     nom_commune
14   )
15   SELECT * FROM table_1 WHERE classement IN ('1','2','3')
16   ORDER BY departement;
```

	classement	departement	nom_commune	moyenne_valeur_fonciere
▶	1	13	GIGNAC-LA-NERTHE	330000
	2	13	SAINT SAVOURNIN	314425
	3	13	CASSIS	313417
	1	33	LEGE-CAP-FERRET	549501
	2	33	VAYRES	335000
	3	33	ARCACHON	307436
	1	59	BERSEE	433202
	2	59	CYSOING	408550
	3	59	HALLUIN	322250
	1	6	SAINT-JEAN-CAP-FERRAT	968750
	2	6	EZE	655000
	3	6	MOUANS-SARTOUX	476898
	1	69	VILLE SUR JARNIOUX	485300
	2	69	LYON 2EME	455217
	3	69	LYON 6EME	426968