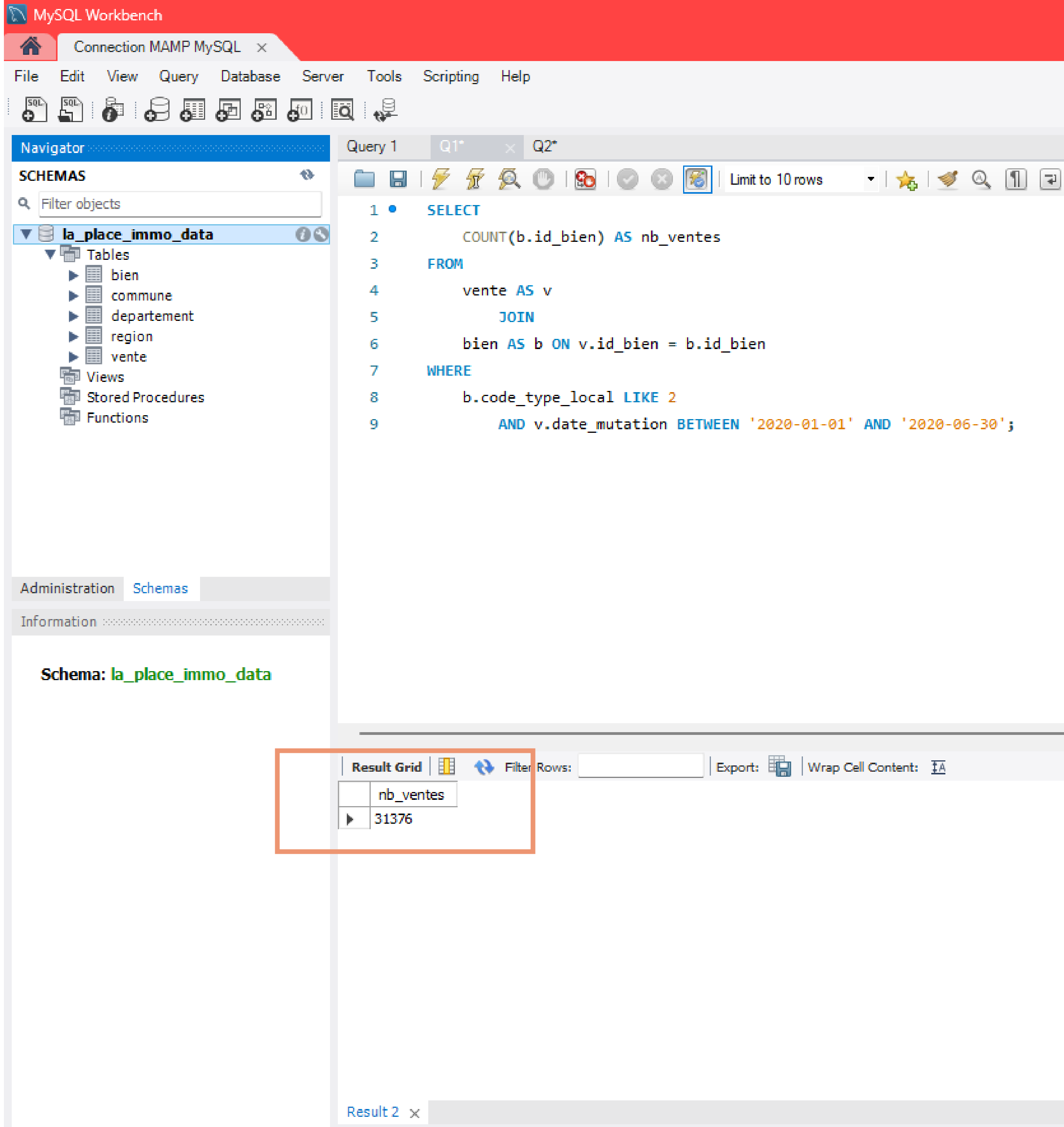
Laplace Immo

NOMBRE TOTAL D’APPARTEMENTS VENDUS AU 1ER SEMESTRE 2020.

```
SELECT COUNT(b.id_bien) AS nb_ventes
FROM vente AS v
JOIN bien AS b ON v.id_bien = b.id_bien
WHERE  b.code_type_local LIKE 2
AND v.date_mutation BETWEEN '2020-01-01' AND '2020-06-30';
```



Schema: la_place_immo_data

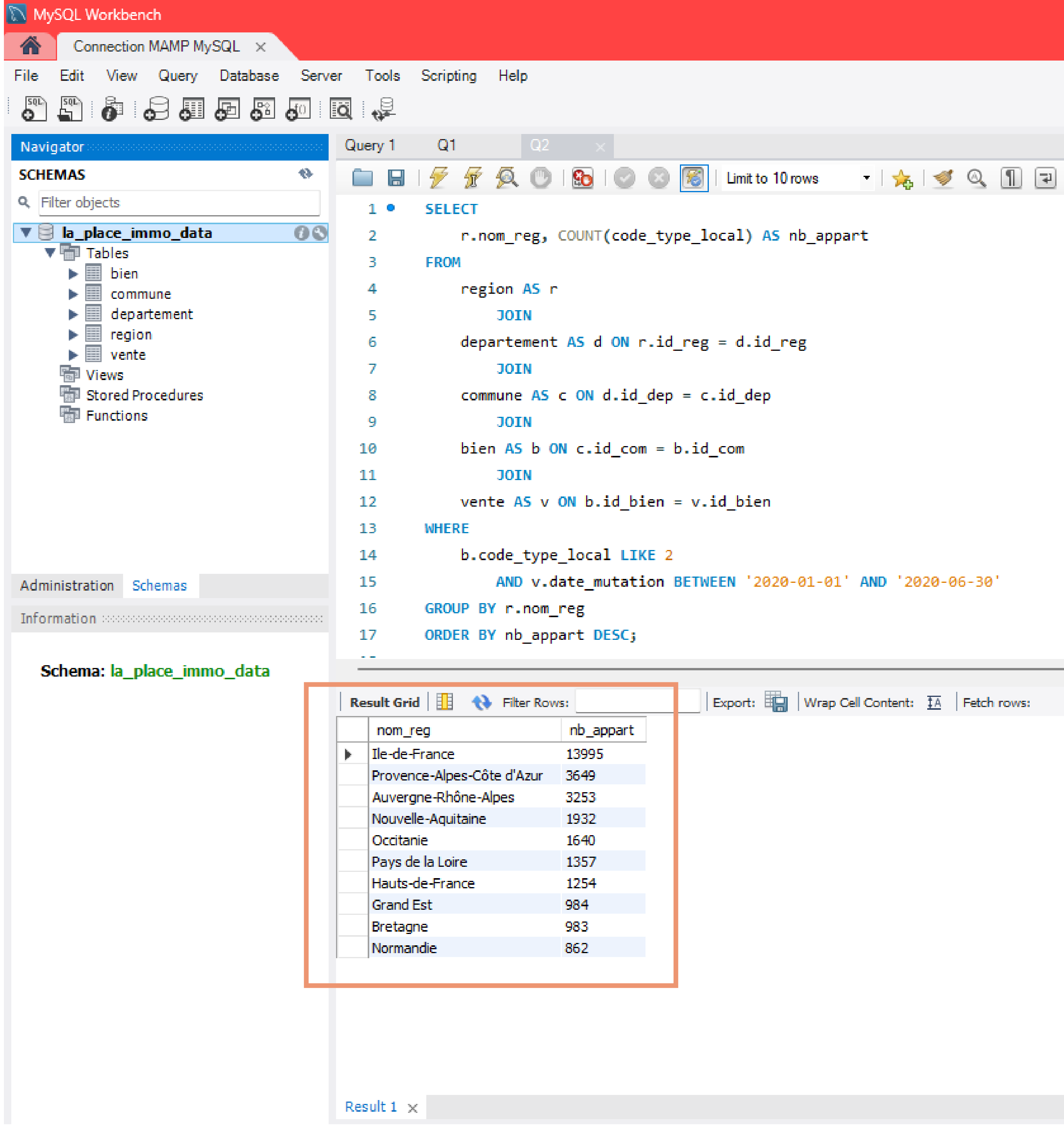
```
SELECT
    COUNT(b.id_bien) AS nb_ventes
FROM
    vente AS v
        JOIN
    bien AS b ON v.id_bien = b.id_bien
WHERE
    b.code_type_local LIKE 2
        AND v.date_mutation BETWEEN '2020-01-01' AND '2020-06-30';
```

```
nb_ventes
31376
```

Laplace Immo

NOMBRE DE VENTES D'APPARTEMENT PAR RÉGION POUR LE 1ER SEMESTRE 2020.

```
SELECT r.nom_reg, COUNT(code_type_local) AS
nb_appart FROM region AS r
JOIN departement AS d ON r.id_reg = d.id_reg
JOIN commune AS c ON d.id_dep = c.id_dep
JOIN bien AS b ON c.id_com = b.id_com
JOIN vente AS v ON b.id_bien = v.id_bien
WHERE b.code_type_local LIKE 2 AND
v.date_mutation BETWEEN '2020-01-01' AND
'2020-06-30' GROUP BY r.nom_reg
ORDER BY nb_appart DESC;
```



Schema: la_place_immo_data

```
SELECT
    r.nom_reg, COUNT(code_type_local) AS nb_appart
FROM
    region AS r
        JOIN
    departement AS d ON r.id_reg = d.id_reg
        JOIN
    commune AS c ON d.id_dep = c.id_dep
        JOIN
    bien AS b ON c.id_com = b.id_com
        JOIN
    vente AS v ON b.id_bien = v.id_bien
WHERE
    b.code_type_local LIKE 2
        AND v.date_mutation BETWEEN '2020-01-01' AND '2020-06-30'
GROUP BY r.nom_reg
ORDER BY nb_appart DESC;
```

nom_reg	nb_appart
Ile-de-France	13995
Provence-Alpes-Côte d'Azur	3649
Auvergne-Rhône-Alpes	3253
Nouvelle-Aquitaine	1932
Occitanie	1640
Pays de la Loire	1357
Hauts-de-France	1254
Grand Est	984
Bretagne	983
Normandie	862

Laplace Immo

PROPORTION DES VENTES D'APPARTEMENTS PAR LE NOMBRE DE PIÈCES.

SELECT b.nb_pieces,

COUNT(b.code_type_local) **AS** nb_appart,

ROUND(COUNT(b.code_type_local) * 100.00

/ (**SELECT**

COUNT(b.code_type_local) **FROM**

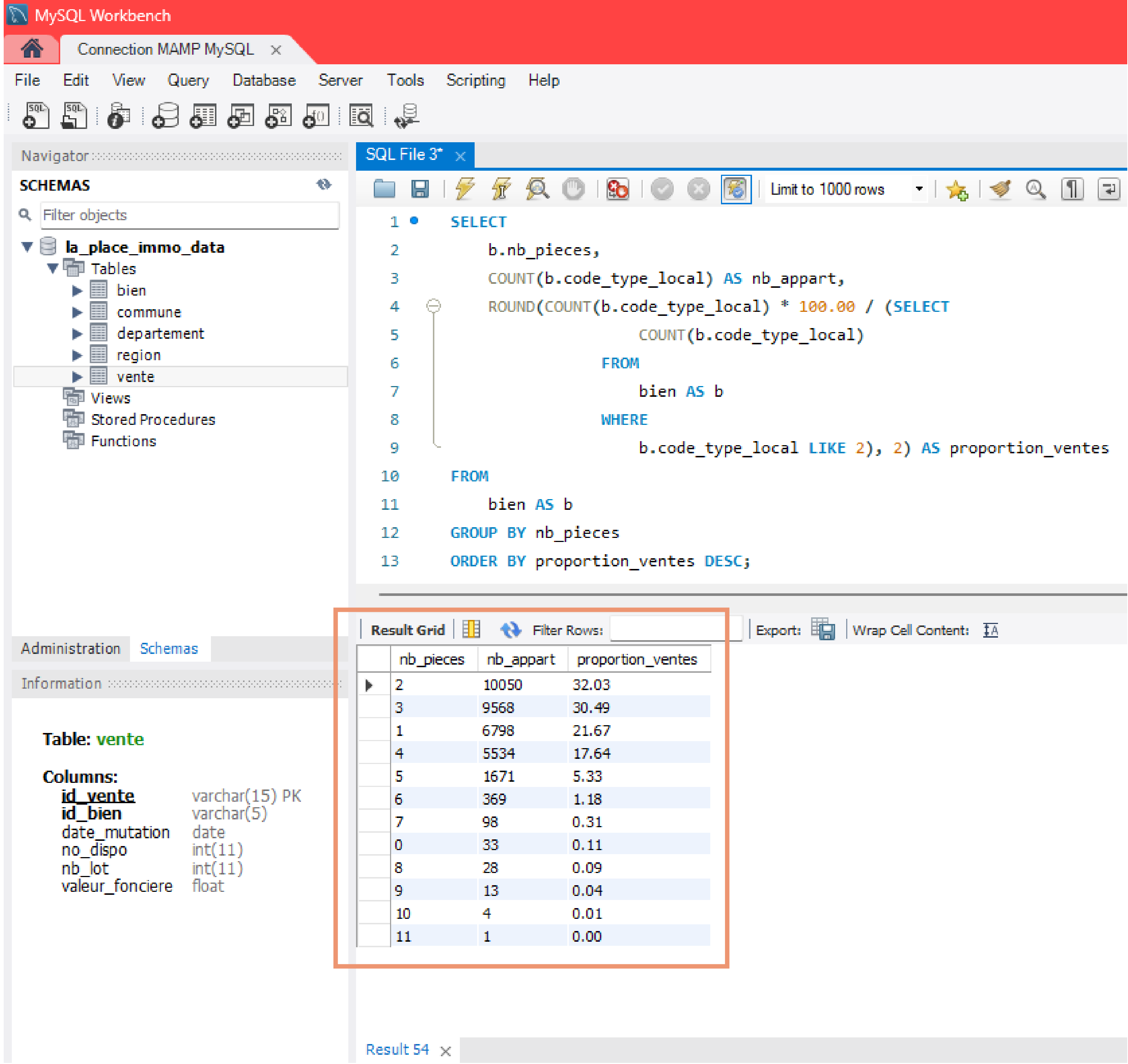
bien **AS** b **WHERE**

b.code_type_local **LIKE** 2), 2) **AS**

proportion_ventes **FROM** bien **AS** b

GROUP BY nb_pieces

ORDER BY proportion_ventes **DESC;**



```
SELECT
    b.nb_pieces,
    COUNT(b.code_type_local) AS nb_appart,
    ROUND(COUNT(b.code_type_local) * 100.00 / (SELECT
                COUNT(b.code_type_local)
            FROM
                bien AS b
            WHERE
                b.code_type_local LIKE 2), 2) AS proportion_ventes
FROM
    bien AS b
GROUP BY nb_pieces
ORDER BY proportion_ventes DESC;
```

nb_pieces	nb_appart	proportion_ventes
2	10050	32.03
3	9568	30.49
1	6798	21.67
4	5534	17.64
5	1671	5.33
6	369	1.18
7	98	0.31
0	33	0.11
8	28	0.09
9	13	0.04
10	4	0.01
11	1	0.00

Table: vente

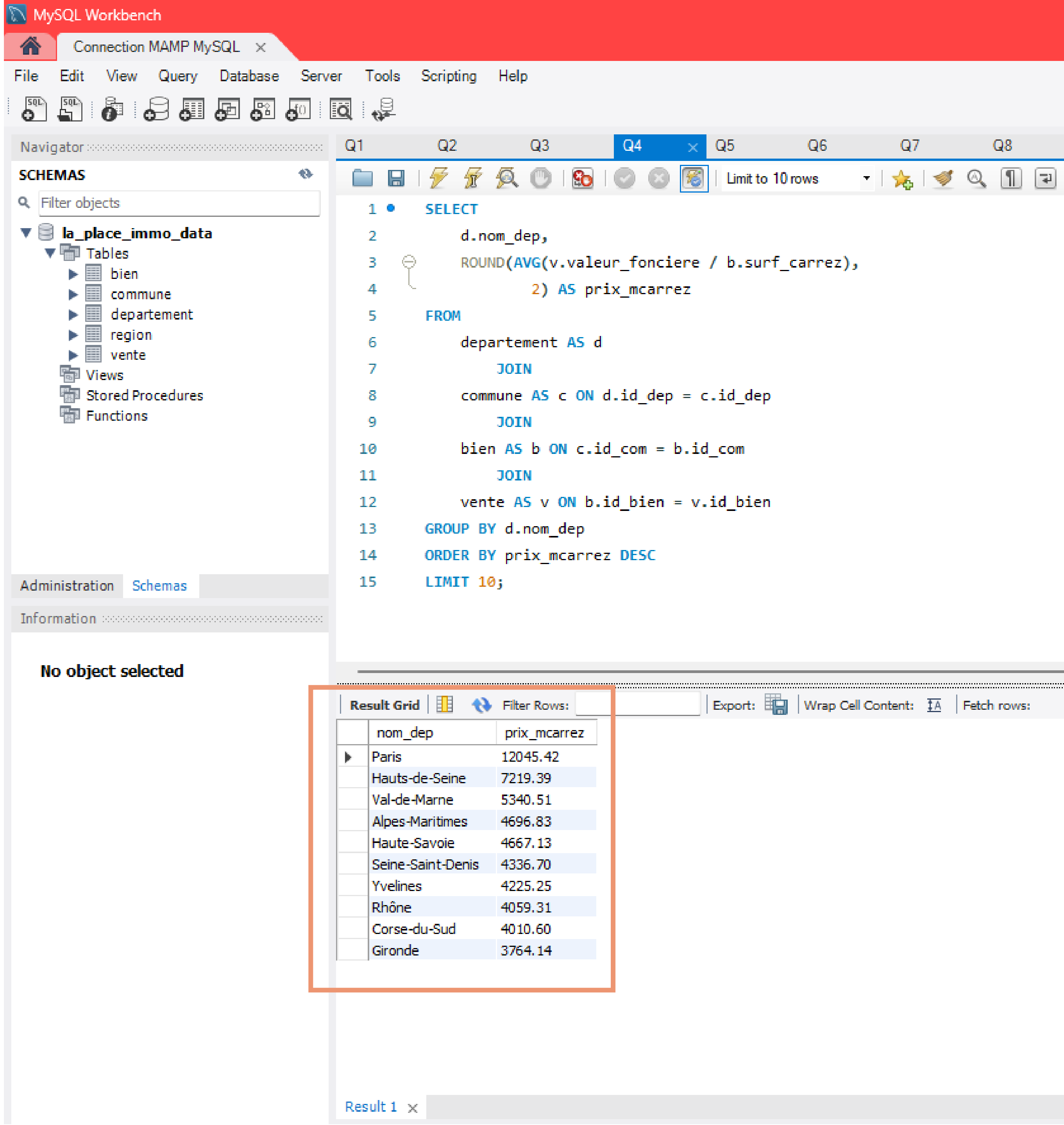
Columns:

id_vente	varchar(15) PK
id_bien	varchar(5)
date_mutation	date
no_dispo	int(11)
nb_lot	int(11)
valeur_fonciere	float

Laplace Immo

LISTE DES 10 DÉPARTEMENTS
OÙ LE PRIX DU MÈTRE CARRÉ EST LE PLUS ÉLEVÉ.

```
SELECT d.nom_dep,
ROUND(AVG(v.valeur_fonciere / b.surf_carrez), 2)
AS prix_mcarrez FROM departement AS d
JOIN commune AS c ON d.id_dep = c.id_dep
JOIN bien AS b ON c.id_com = b.id_com
JOIN vente AS v ON b.id_bien = v.id_bien
GROUP BY d.nom_dep
ORDER BY prix_mcarrez DESC
LIMIT 10;
```



Limit to 10 rows

```
SELECT
    d.nom_dep,
    ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
            2) AS prix_mcarrez
FROM
    departement AS d
        JOIN
    commune AS c ON d.id_dep = c.id_dep
        JOIN
    bien AS b ON c.id_com = b.id_com
        JOIN
    vente AS v ON b.id_bien = v.id_bien
GROUP BY d.nom_dep
ORDER BY prix_mcarrez DESC
LIMIT 10;
```

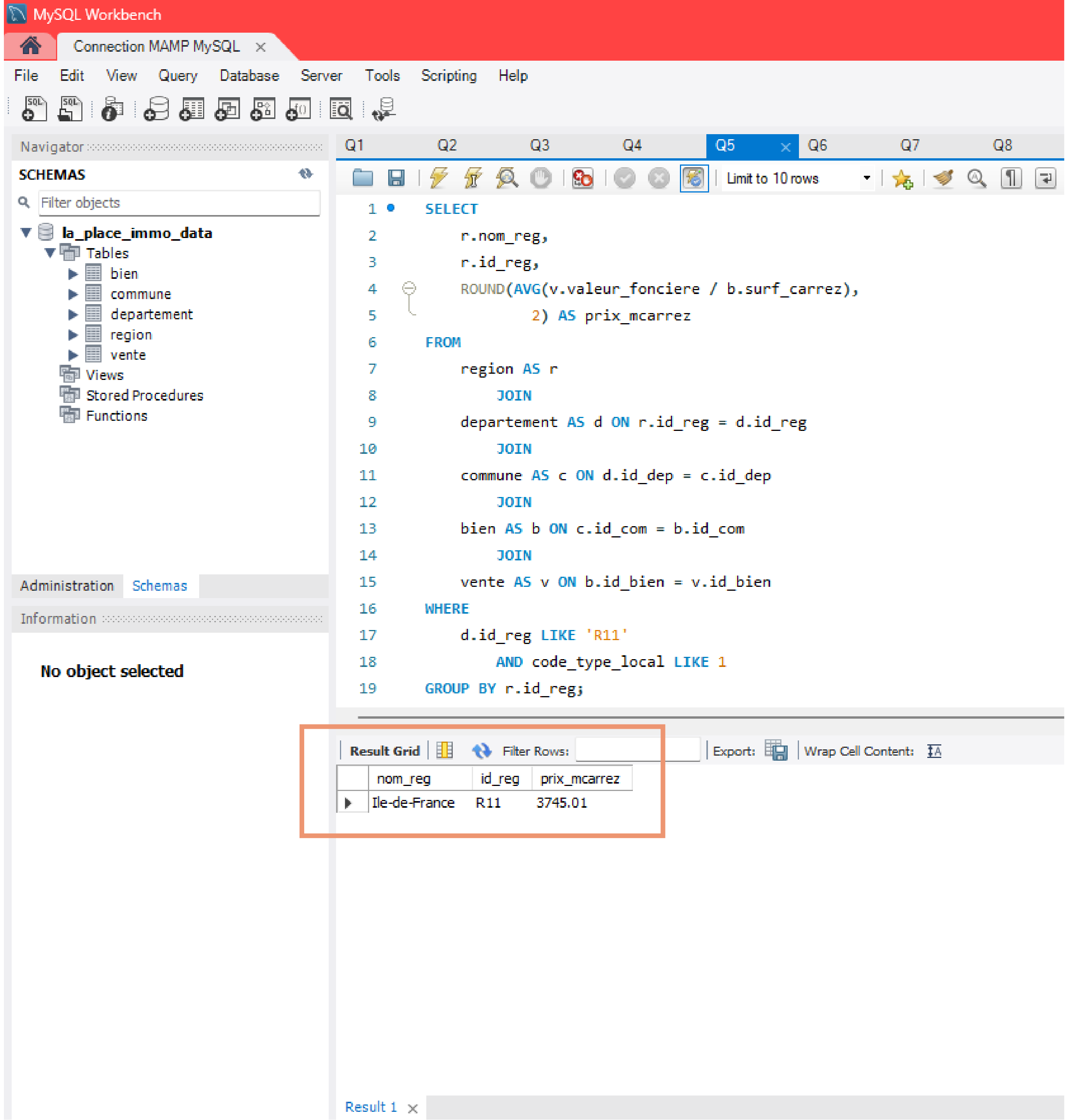
No object selected

nom_dep	prix_mcarrez
Paris	12045.42
Hauts-de-Seine	7219.39
Val-de-Marne	5340.51
Alpes-Maritimes	4696.83
Haute-Savoie	4667.13
Seine-Saint-Denis	4336.70
Yvelines	4225.25
Rhône	4059.31
Corse-du-Sud	4010.60
Gironde	3764.14

Laplace Immo

PRIX MOYEN DU MÈTRE CARRÉ D'UNE MAISON EN ÎLE-DE-FRANCE.

```
SELECT r.nom_reg, r.id_reg,
ROUND(AVG(v.valeur_fonciere / b.surf_carrez),  2)
AS prix_mcarrez FROM region AS r
JOIN departement AS d ON r.id_reg = d.id_reg
JOIN commune AS c ON d.id_dep = c.id_dep
JOIN bien AS b ON c.id_com = b.id_com
JOIN vente AS v ON b.id_bien = v.id_bien
WHERE d.id_reg LIKE 'R11'
AND code_type_local LIKE 1
GROUP BY r.id_reg;
```

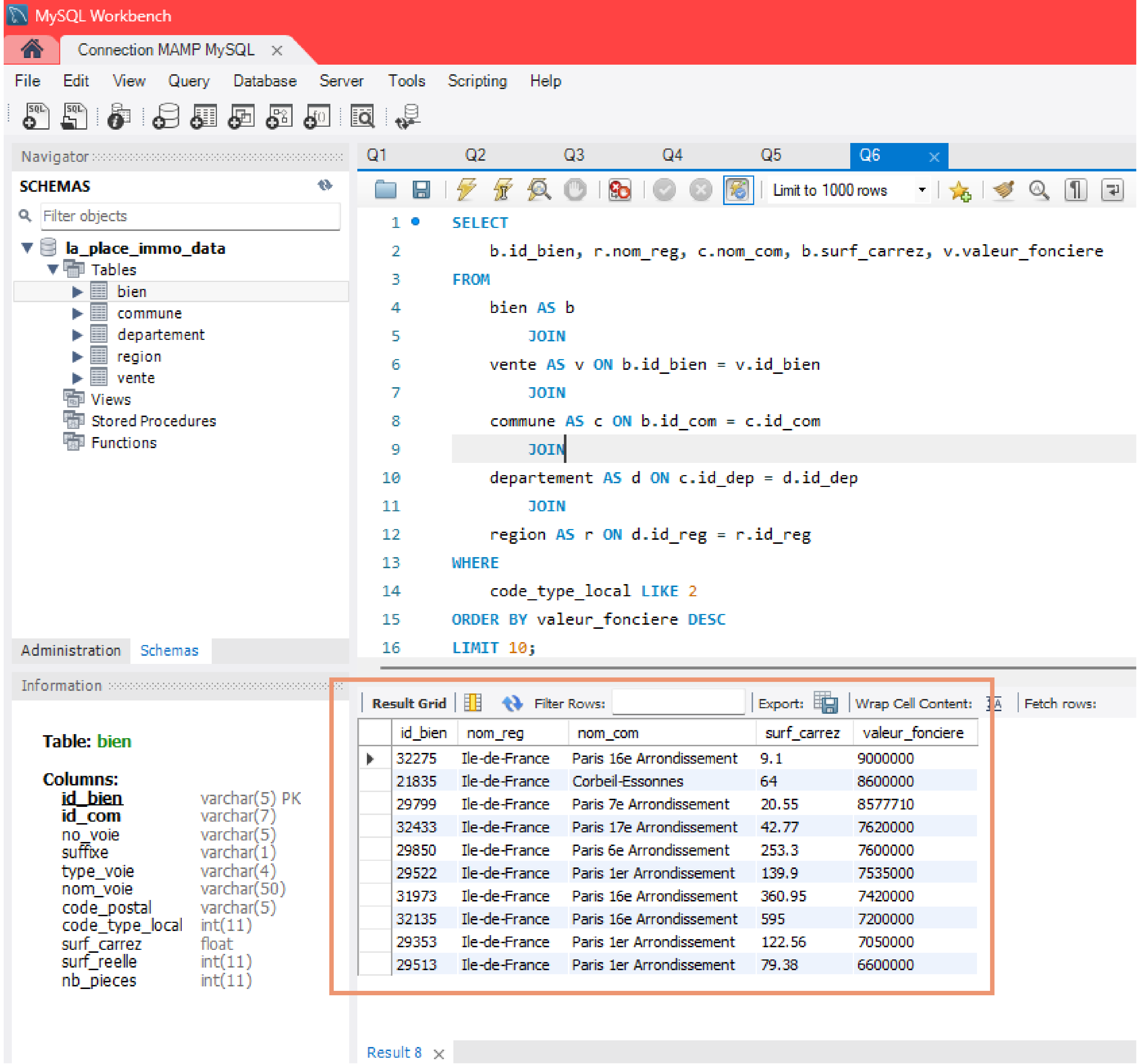


```
SELECT
    r.nom_reg,
    r.id_reg,
    ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
            2) AS prix_mcarrez
FROM
    region AS r
        JOIN
    departement AS d ON r.id_reg = d.id_reg
        JOIN
    commune AS c ON d.id_dep = c.id_dep
        JOIN
    bien AS b ON c.id_com = b.id_com
        JOIN
    vente AS v ON b.id_bien = v.id_bien
WHERE
    d.id_reg LIKE 'R11'
        AND code_type_local LIKE 1
GROUP BY r.id_reg;
```

nom_reg	id_reg	prix_mcarrez
Ile-de-France	R11	3745.01

LISTE DES 10 APPARTEMENTS LES PLUS CHERS AVEC LA RÉGION ET LE NOMBRE DE MÈTRES CARRÉS.

SELECT b.id_bien, r.nom_reg, c.nom_com,
b.surf_carrez, v.valeur_fonciere
FROM bien AS b
JOIN vente AS v ON b.id_bien = v.id_bien
JOIN commune AS c ON b.id_com =
c.id_com JOIN departement AS d ON
c.id_dep = d.id_dep
JOIN region AS r ON d.id_reg = r.id_reg
WHERE code_type_local LIKE 2
ORDER BY valeur_fonciere DESC LIMIT 10;



```
SELECT
    b.id_bien, r.nom_reg, c.nom_com, b.surf_carrez, v.valeur_fonciere
FROM
    bien AS b
        JOIN
    vente AS v ON b.id_bien = v.id_bien
        JOIN
    commune AS c ON b.id_com = c.id_com
        JOIN
    departement AS d ON c.id_dep = d.id_dep
        JOIN
    region AS r ON d.id_reg = r.id_reg
WHERE
    code_type_local LIKE 2
ORDER BY valeur_fonciere DESC
LIMIT 10;
```

Table: bien

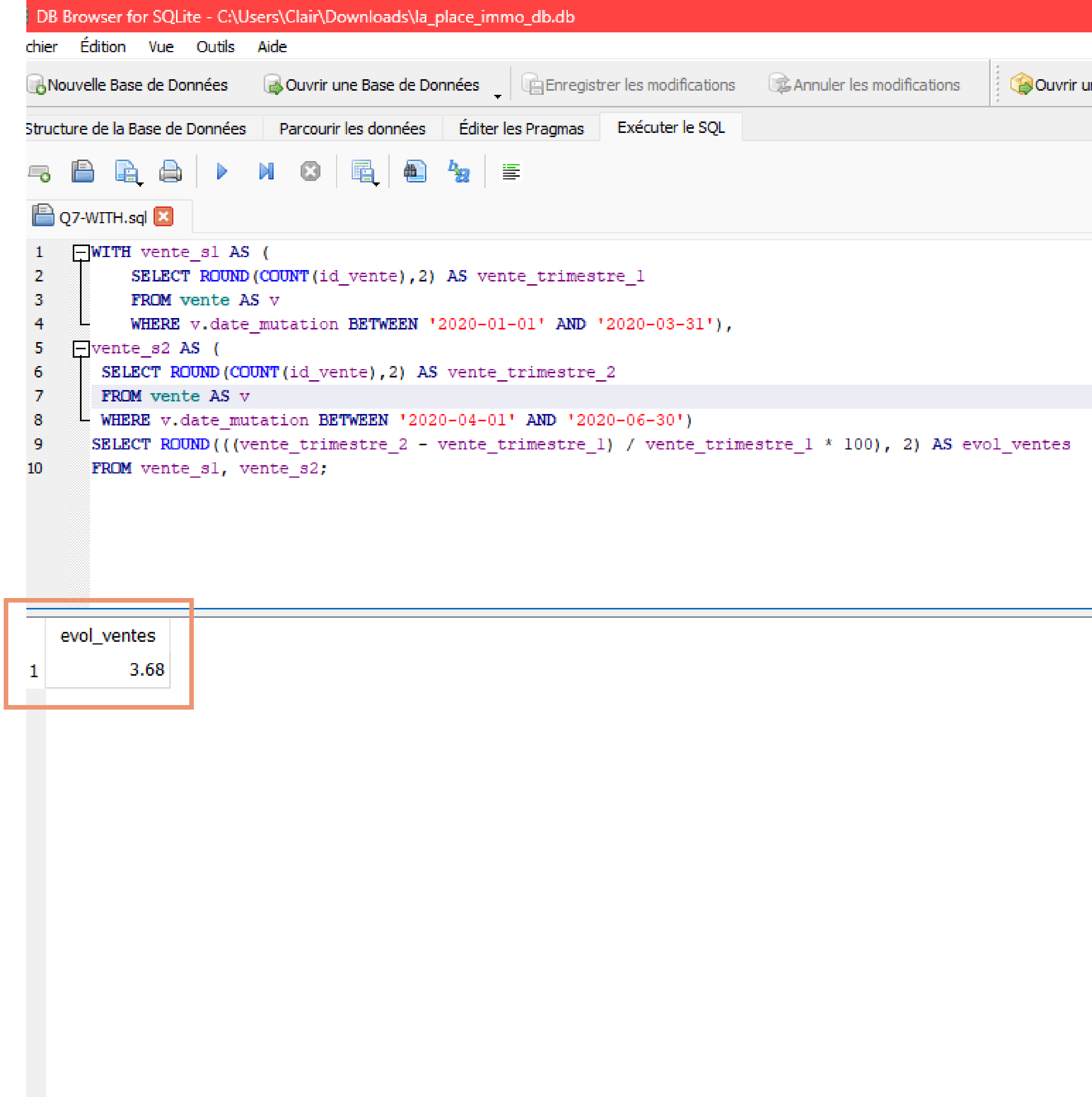
Columns:

id_bien	varchar(5) PK
id_com	varchar(7)
no_voie	varchar(5)
suffixe	varchar(1)
type_voie	varchar(4)
nom_voie	varchar(50)
code_postal	varchar(5)
code_type_local	int(11)
surf_carrez	float
surf_reelle	int(11)
nb_pieces	int(11)

id_bien	nom_reg	nom_com	surf_carrez	valeur_fonciere
32275	Ile-de-France	Paris 16e Arrondissement	9.1	9000000
21835	Ile-de-France	Corbeil-Essonnes	64	8600000
29799	Ile-de-France	Paris 7e Arrondissement	20.55	8577710
32433	Ile-de-France	Paris 17e Arrondissement	42.77	7620000
29850	Ile-de-France	Paris 6e Arrondissement	253.3	7600000
29522	Ile-de-France	Paris 1er Arrondissement	139.9	7535000
31973	Ile-de-France	Paris 16e Arrondissement	360.95	7420000
32135	Ile-de-France	Paris 16e Arrondissement	595	7200000
29353	Ile-de-France	Paris 1er Arrondissement	122.56	7050000
29513	Ile-de-France	Paris 1er Arrondissement	79.38	6600000

TAUX D’ÉVOLUTION DU NOMBRE DE VENTES ENTRE LE PREMIER ET LE SECOND TRIMESTRE DE 2020.

```
WITH vente_s1 AS (SELECT
ROUND(COUNT(id_vente), 2) AS vente_trimestre_1
FROM vente AS v WHERE v.date_mutation
BETWEEN '2020-01-01' AND '2020-03-31’),
vente_s2 AS (SELECT ROUND(COUNT(id_vente), 2)
AS vente_trimestre_2 FROM vente AS v
WHERE v.date_mutation BETWEEN '2020-04-01'
AND '2020-06-30’)
SELECT ROUND(((vente_trimestre_2 -
vente_trimestre_1) / vente_trimestre_1 * 100), 2)
AS evol_ventes FROM vente_s1, vente_s2;
```


DB Browser for SQLite - C:\Users\Clair\Downloads\la_place_immo_db.db
chier
Édition
Vue
Outils
Aide
Nouvelle Base de Données
Ouvrir une Base de Données
Enregistrer les modifications
Annuler les modifications
Ouvrir u
Structure de la Base de Données
Parcourir les données
Éditer les Pragmas
Exécuter le SQL
Q7-WITH.sql

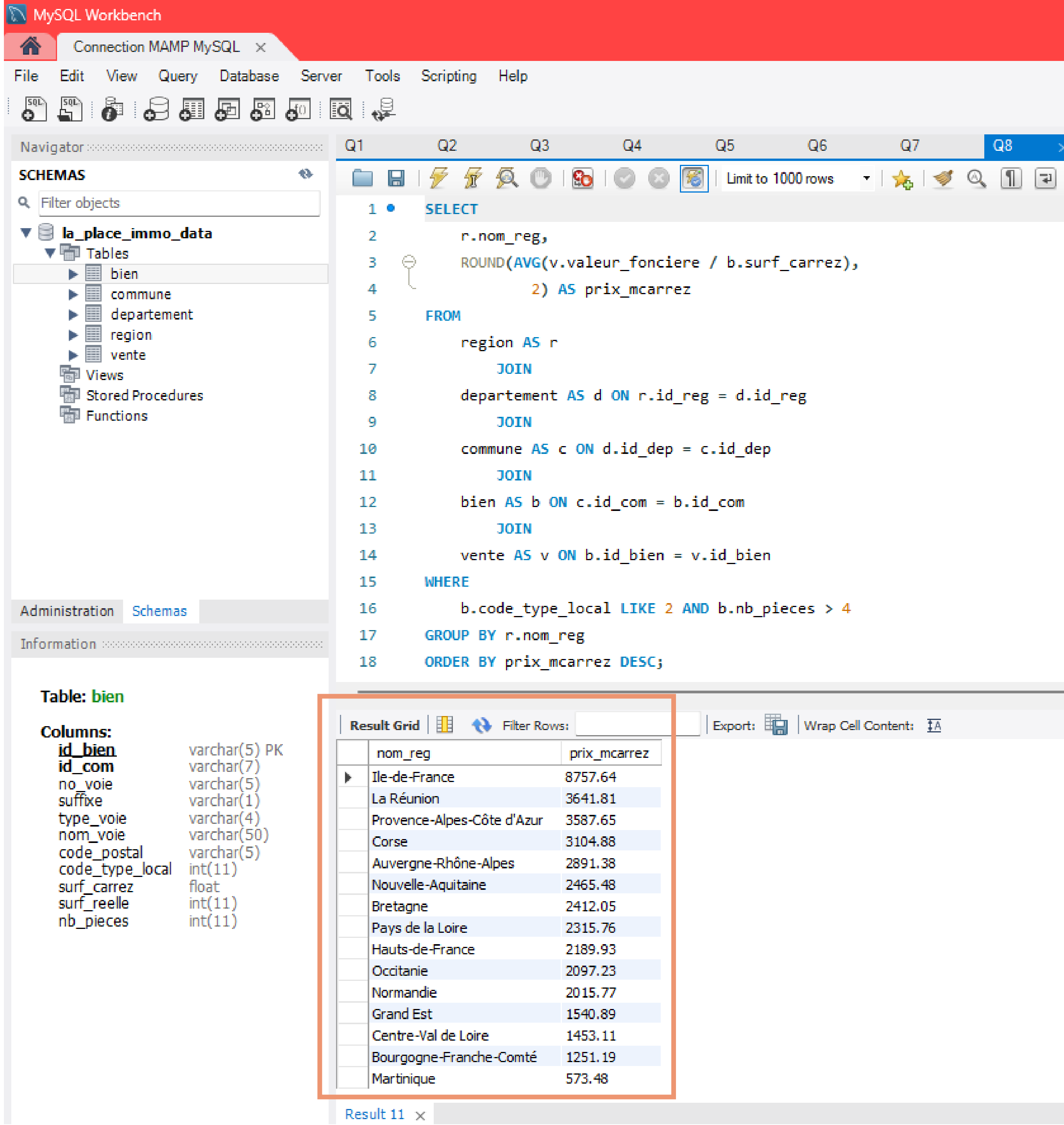
```
WITH vente_s1 AS (
    SELECT ROUND(COUNT(id_vente),2) AS vente_trimestre_1
    FROM vente AS v
    WHERE v.date_mutation BETWEEN '2020-01-01' AND '2020-03-31'),
vente_s2 AS (
  SELECT ROUND(COUNT(id_vente),2) AS vente_trimestre_2
  FROM vente AS v
  WHERE v.date_mutation BETWEEN '2020-04-01' AND '2020-06-30')
SELECT ROUND(((vente_trimestre_2 - vente_trimestre_1) / vente_trimestre_1 * 100), 2) AS evol_ventes
FROM vente_s1, vente_s2;
```

```
  evol_ventes
1        3.68
```

Laplace Immo

CLASSEMENT DES RÉGIONS PAR RAPPORT AU PRIX AU MÈTRE CARRÉ DES APPARTEMENT DE PLUS DE 4 PIÈCES.

```
SELECT r.nom_reg, ROUND(AVG(v.valeur_fonciere
/ b.surf_carrez), 2) AS prix_mcarrez FROM region
AS r JOIN departement AS d ON r.id_reg =
d.id_reg JOIN commune AS c ON d.id_dep =
c.id_dep JOIN bien AS b ON c.id_com = b.id_com
JOIN vente AS v ON b.id_bien = v.id_bien
WHERE b.code_type_local LIKE 2 AND
b.nb_pieces > 4
GROUP BY r.nom_reg
ORDER BY prix_mcarrez DESC;
```



```
SELECT
    r.nom_reg,
    ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
            2) AS prix_mcarrez
FROM
    region AS r
        JOIN
    departement AS d ON r.id_reg = d.id_reg
        JOIN
    commune AS c ON d.id_dep = c.id_dep
        JOIN
    bien AS b ON c.id_com = b.id_com
        JOIN
    vente AS v ON b.id_bien = v.id_bien
WHERE
    b.code_type_local LIKE 2 AND b.nb_pieces > 4
GROUP BY r.nom_reg
ORDER BY prix_mcarrez DESC;
```

Table: bien

Columns:

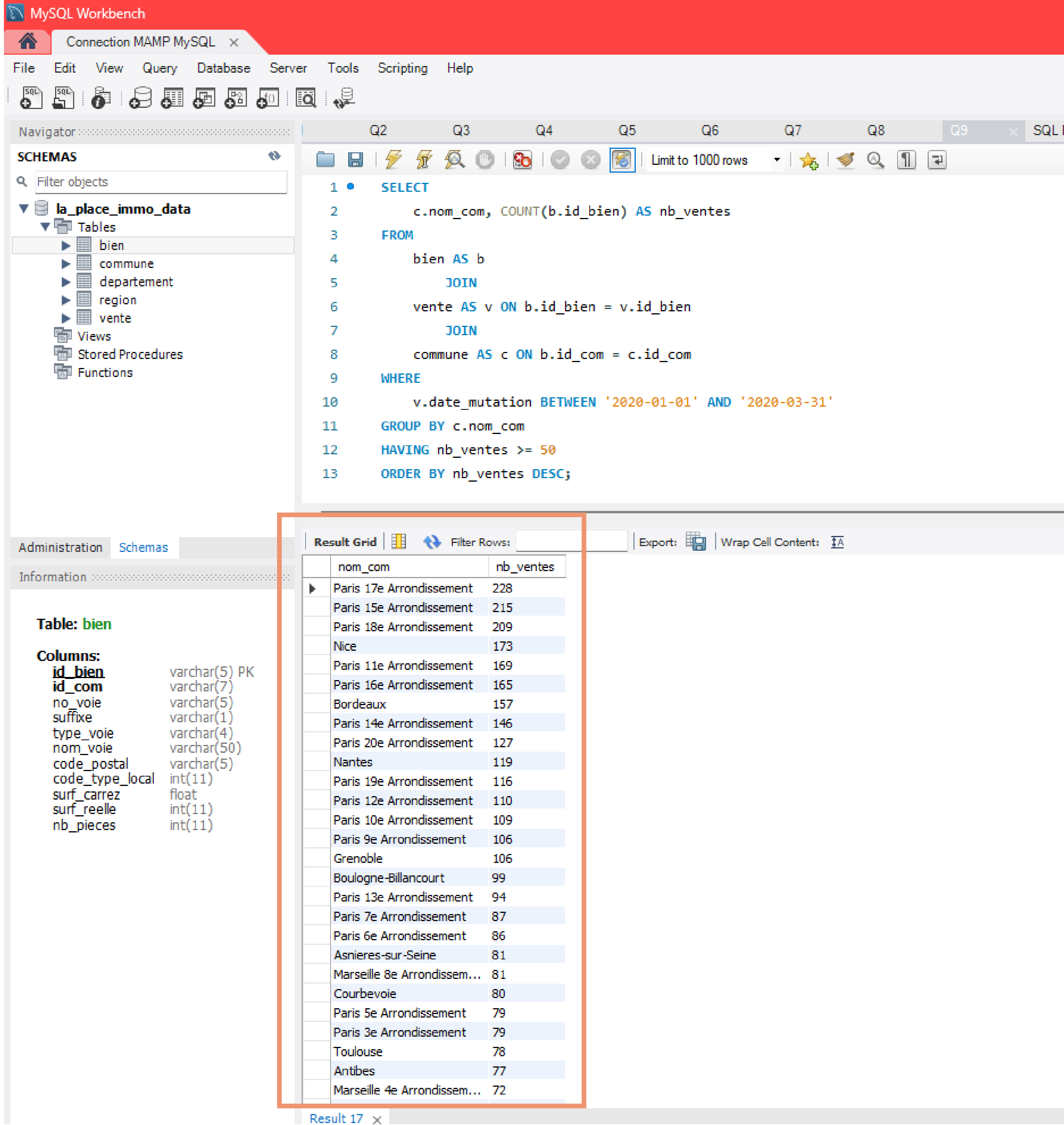
id_bien	varchar(5) PK
id_com	varchar(7)
no_voie	varchar(5)
suffixe	varchar(1)
type_voie	varchar(4)
nom_voie	varchar(50)
code_postal	varchar(5)
code_type_local	int(11)
surf_carrez	float
surf_reelle	int(11)
nb_pieces	int(11)

nom_reg	prix_mcarrez
Ile-de-France	8757.64
La Réunion	3641.81
Provence-Alpes-Côte d'Azur	3587.65
Corse	3104.88
Auvergne-Rhône-Alpes	2891.38
Nouvelle-Aquitaine	2465.48
Bretagne	2412.05
Pays de la Loire	2315.76
Hauts-de-France	2189.93
Occitanie	2097.23
Normandie	2015.77
Grand Est	1540.89
Centre-Val de Loire	1453.11
Bourgogne-Franche-Comté	1251.19
Martinique	573.48

Laplace Immo

LISTE DES COMMUNES
AYANT EU AU MOINS 50 VENTES AU 1ER TRIMESTRE.

```
SELECT c.nom_com,
COUNT(b.id_bien) AS nb_ventes
FROM bien AS b
JOIN vente AS v ON b.id_bien = v.id_bien
JOIN commune AS c ON b.id_com = c.id_com
WHERE v.date_mutation BETWEEN '2020-01-01'
AND '2020-03-31’
GROUP BY c.nom_com
HAVING nb_ventes >= 50
ORDER BY nb_ventes DESC;
```



```
SELECT
    c.nom_com, COUNT(b.id_bien) AS nb_ventes
FROM
    bien AS b
        JOIN
    vente AS v ON b.id_bien = v.id_bien
        JOIN
    commune AS c ON b.id_com = c.id_com
WHERE
    v.date_mutation BETWEEN '2020-01-01' AND '2020-03-31'
GROUP BY c.nom_com
HAVING nb_ventes >= 50
ORDER BY nb_ventes DESC;
```

Table: bien

Columns:

id_bien	varchar(5) PK
id_com	varchar(7)
no_voie	varchar(5)
suffixe	varchar(1)
type_voie	varchar(4)
nom_voie	varchar(50)
code_postal	varchar(5)
code_type_local	int(11)
surf_carrez	float
surf_reelle	int(11)
nb_pieces	int(11)

nom_com	nb_ventes
Paris 17e Arrondissement	228
Paris 15e Arrondissement	215
Paris 18e Arrondissement	209
Nice	173
Paris 11e Arrondissement	169
Paris 16e Arrondissement	165
Bordeaux	157
Paris 14e Arrondissement	146
Paris 20e Arrondissement	127
Nantes	119
Paris 19e Arrondissement	116
Paris 12e Arrondissement	110
Paris 10e Arrondissement	109
Paris 9e Arrondissement	106
Grenoble	106
Boulogne-Billancourt	99
Paris 13e Arrondissement	94
Paris 7e Arrondissement	87
Paris 6e Arrondissement	86
Asnieres-sur-Seine	81
Marseille 8e Arrondissem...	81
Courbevoie	80
Paris 5e Arrondissement	79
Paris 3e Arrondissement	79
Toulouse	78
Antibes	77
Marseille 4e Arrondissem...	72

Laplace Immo

DIFFÉRENCE EN POURCENTAGE DU PRIX AU MÈTRE CARRÉ ENTRE UN APPARTEMENT DE 2 PIÈCES ET UN APPARTEMENT DE 3 PIÈCES.

```
SELECT ROUND(((SELECT
ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
2) FROM vente AS v JOIN bien AS b ON v.id_bien =
b.id_bien  WHERE b.nb_pieces LIKE 2) - (SELECT
ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
2) FROM vente AS v JOIN bien AS b ON v.id_bien =
b.id_bien WHERE b.nb_pieces LIKE 3)) / (SELECT
ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
2) FROM vente AS v JOIN bien AS b ON v.id_bien =
b.id_bien WHERE b.nb_pieces LIKE 3) * 100.00, 2) AS
diff_pourcentage;
```

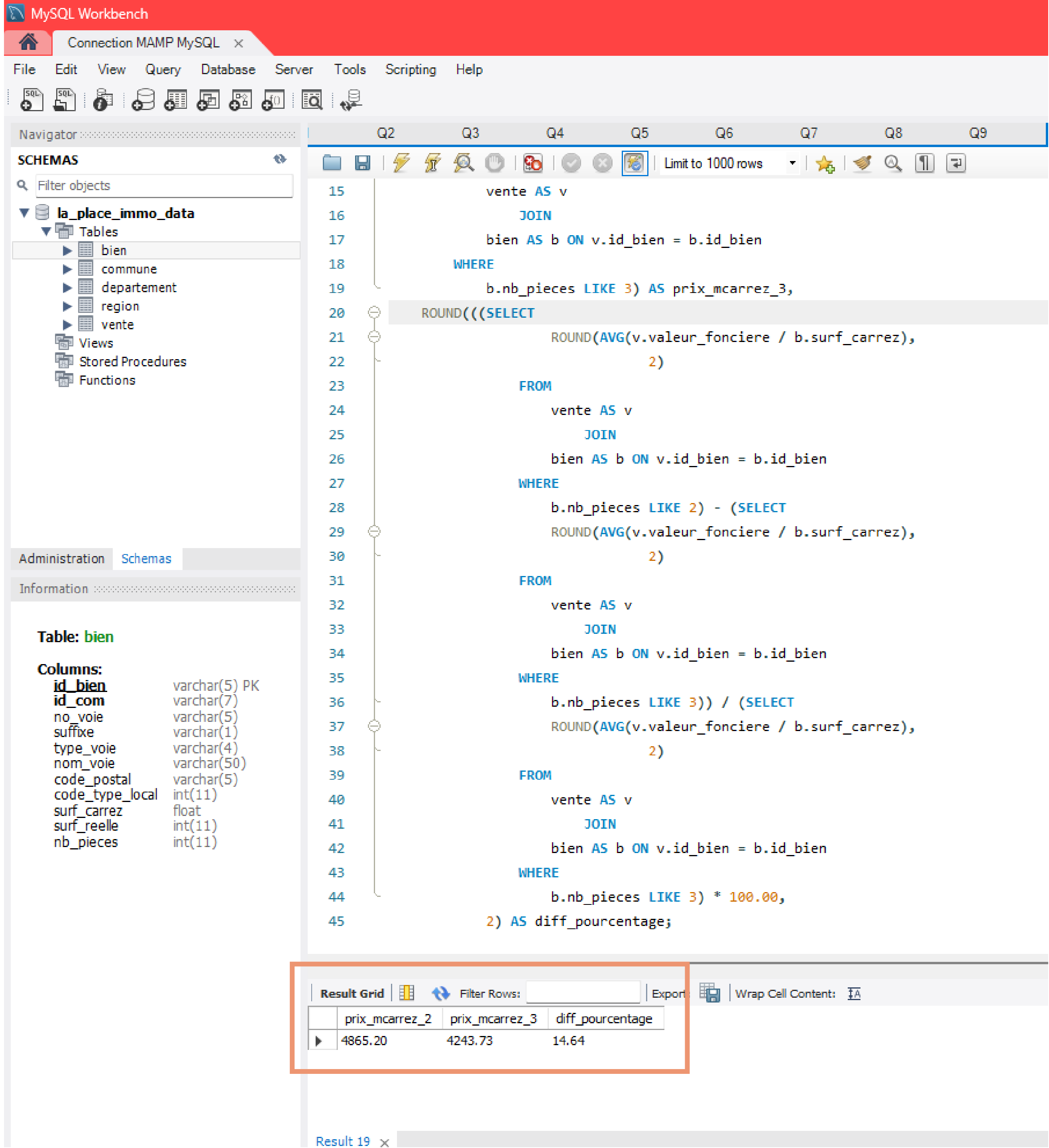


Table: bien

Columns:

id_bien	varchar(5) PK
id_com	varchar(7)
no_voie	varchar(5)
suffixe	varchar(1)
type_voie	varchar(4)
nom_voie	varchar(50)
code_postal	varchar(5)
code_type_local	int(11)
surf_carrez	float
surf_reelle	int(11)
nb_pieces	int(11)

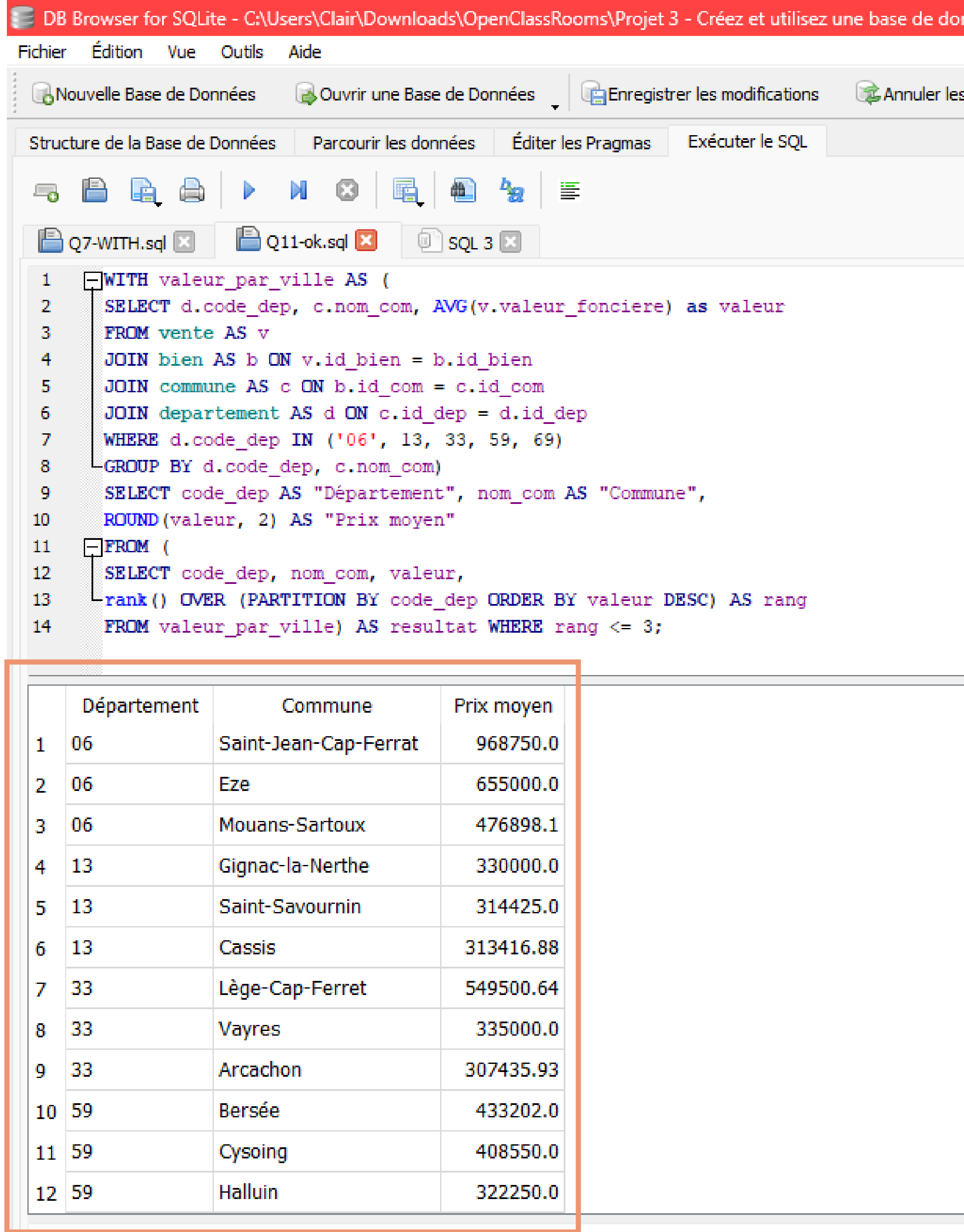
```
            vente AS v
                JOIN
            bien AS b ON v.id_bien = b.id_bien
        WHERE
            b.nb_pieces LIKE 3) AS prix_mcarrez_3,
    ROUND(((SELECT
                ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
                            2)
            FROM
                vente AS v
                    JOIN
                bien AS b ON v.id_bien = b.id_bien
            WHERE
                b.nb_pieces LIKE 2) - (SELECT
                ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
                            2)
            FROM
                vente AS v
                    JOIN
                bien AS b ON v.id_bien = b.id_bien
            WHERE
                b.nb_pieces LIKE 3)) / (SELECT
                ROUND(AVG(v.valeur_fonciere / b.surf_carrez),
                            2)
            FROM
                vente AS v
                    JOIN
                bien AS b ON v.id_bien = b.id_bien
            WHERE
                b.nb_pieces LIKE 3) * 100.00,
        2) AS diff_pourcentage;
```

prix_mcarrez_2	prix_mcarrez_3	diff_pourcentage
4865.20	4243.73	14.64

Laplace Immo

MOYENNES DE VALEURS FONCIÈRES POUR LE TOP 3 DES COMMUNES DES DÉPARTEMENTS 6, 13, 33, 59 ET 69.

```
WITH valeur_par_ville AS (
SELECT d.code_dep, c.nom_com, AVG(v.valeur_fonciere) AS valeur
FROM vente AS v JOIN bien AS b ON v.id_bien = b.id_bien
JOIN commune AS c ON b.id_com = c.id_com
JOIN departement AS d ON c.id_dep = d.id_dep
WHERE d.code_dep IN (06,13,33,59,69)
GROUP BY d.code_dep, c.nom_com)
SELECT code_dep AS "Département", nom_com AS "Commune",
ROUND(valeur, 2) AS "Prix moyen" FROM (SELECT code_dep, nom_com,
valeur, rank() OVER (PARTITION BY code_dep ORDER BY valeur DESC)
AS rang FROM valeur_par_ville) AS resultat WHERE rang <= 3;
```


DB Browser for SQLite - C:\Users\Clair\Downloads\OpenClassRooms\Projet 3 - Créez et utilisez une base de do
Fichier
Édition
Vue
Outils
Aide
Nouvelle Base de Données
Ouvrir une Base de Données
Enregistrer les modifications
Annuler les
Structure de la Base de Données
Parcourir les données
Éditer les Pragmas
Exécuter le SQL
Q7-WITH.sql
Q11-ok.sql
SQL 3

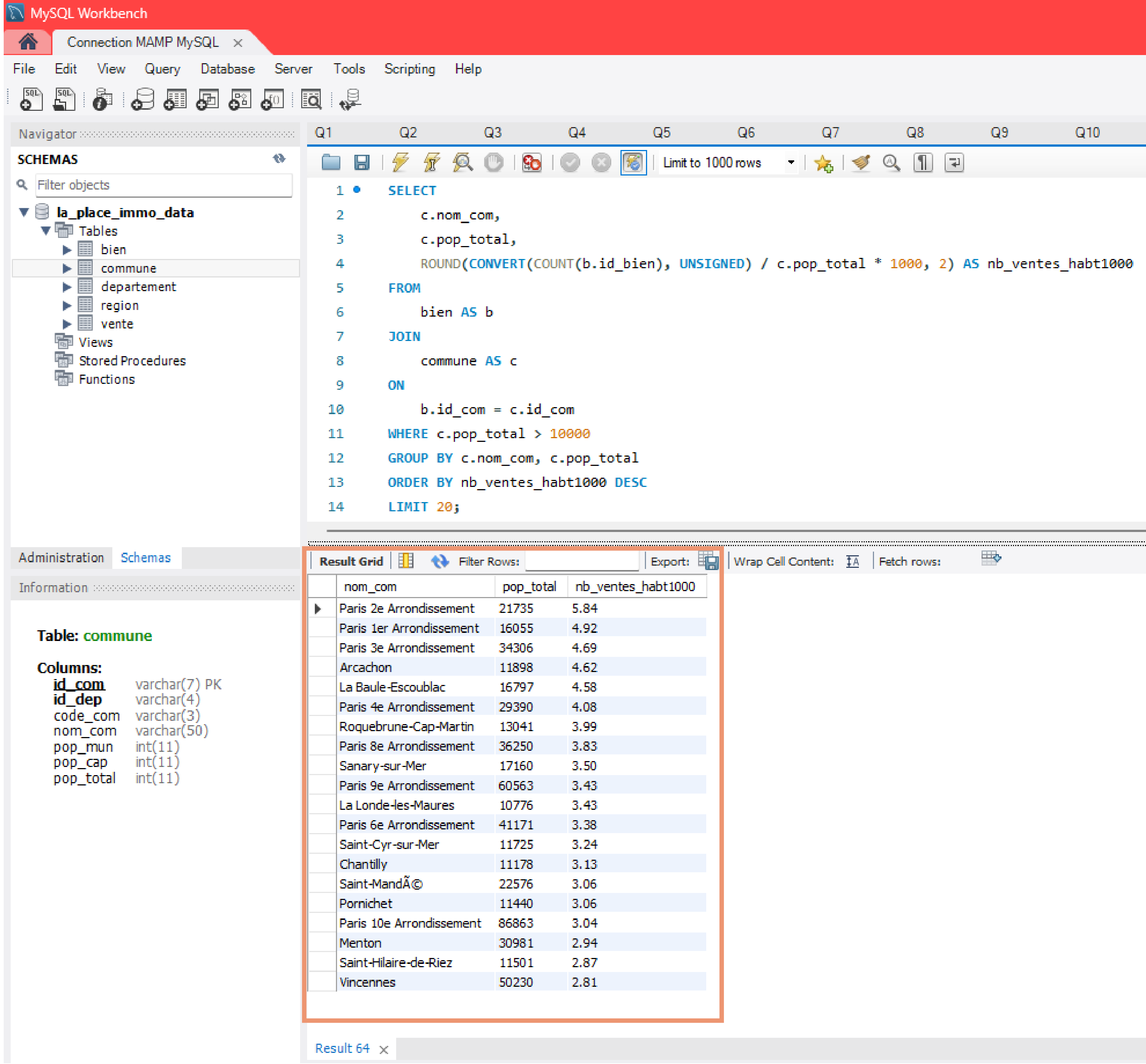
```
WITH valeur_par_ville AS (
SELECT d.code_dep, c.nom_com, AVG(v.valeur_fonciere) as valeur
FROM vente AS v
JOIN bien AS b ON v.id_bien = b.id_bien
JOIN commune AS c ON b.id_com = c.id_com
JOIN departement AS d ON c.id_dep = d.id_dep
WHERE d.code_dep IN ('06', 13, 33, 59, 69)
GROUP BY d.code_dep, c.nom_com)
SELECT code_dep AS "Département", nom_com AS "Commune",
ROUND(valeur, 2) AS "Prix moyen"
FROM (
SELECT code_dep, nom_com, valeur,
rank() OVER (PARTITION BY code_dep ORDER BY valeur DESC) AS rang
FROM valeur_par_ville) AS resultat WHERE rang <= 3;
```

	Département	Commune	Prix moyen
1	06	Saint-Jean-Cap-Ferrat	968750.0
2	06	Eze	655000.0
3	06	Mouans-Sartoux	476898.1
4	13	Gignac-la-Nerthe	330000.0
5	13	Saint-Savournin	314425.0
6	13	Cassis	313416.88
7	33	Lège-Cap-Ferret	549500.64
8	33	Vayres	335000.0
9	33	Arcachon	307435.93
10	59	Bersée	433202.0
11	59	Cysoing	408550.0
12	59	Halluin	322250.0

Laplace Immo

20 COMMUNES AVEC LE PLUS DE TRANSACTIONS POUR 1000 HABITANTS POUR LES COMMUNES QUI DÉPASSENT LES 10 000 HABITANTS.

```
SELECT c.nom_com, c.pop_total,
ROUND(CONVERT(COUNT(b.id_bien) ,
UNSIGNED) / c.pop_total * 1000, 2) AS
nb_ventes_habt1000 FROM bien AS b
JOIN commune AS c ON b.id_com =
c.id_com WHERE c.pop_total > 10000
GROUP BY c.nom_com , c.pop_total
ORDER BY nb_ventes_habt1000 DESC
LIMIT 20;
```



```
SELECT
    c.nom_com,
    c.pop_total,
    ROUND(CONVERT(COUNT(b.id_bien), UNSIGNED) / c.pop_total * 1000, 2) AS nb_ventes_habt1000
FROM
    bien AS b
JOIN
    commune AS c
ON
    b.id_com = c.id_com
WHERE c.pop_total > 10000
GROUP BY c.nom_com, c.pop_total
ORDER BY nb_ventes_habt1000 DESC
LIMIT 20;
```

Table: commune

Columns:

id_com	varchar(7) PK
id_dep	varchar(4)
code_com	varchar(3)
nom_com	varchar(50)
pop_mun	int(11)
pop_cap	int(11)
pop_total	int(11)

nom_com	pop_total	nb_ventes_habt1000
Paris 2e Arrondissement	21735	5.84
Paris 1er Arrondissement	16055	4.92
Paris 3e Arrondissement	34306	4.69
Arcachon	11898	4.62
La Baule-Escoublac	16797	4.58
Paris 4e Arrondissement	29390	4.08
Roquebrune-Cap-Martin	13041	3.99
Paris 8e Arrondissement	36250	3.83
Sanary-sur-Mer	17160	3.50
Paris 9e Arrondissement	60563	3.43
La Londe-les-Maures	10776	3.43
Paris 6e Arrondissement	41171	3.38
Saint-Cyr-sur-Mer	11725	3.24
Chantilly	11178	3.13
Saint-MandÃ©	22576	3.06
Pornichet	11440	3.06
Paris 10e Arrondissement	86863	3.04
Menton	30981	2.94
Saint-Hilaire-de-Riez	11501	2.87
Vincennes	50230	2.81