

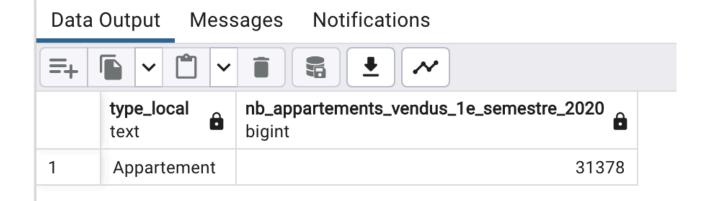
PROJET « DATAIMMO »

REQUÊTES ET RÉSULTATS



R1 - Nombre total d'appartements vendus au 1er semestre 2020

```
Query
    SELECT
1
        b.type_local,
2
        count(v.id_vente) as nb_appartements_vendus_le_semestre_2020
3
   FROM
4
5
        ventes v
 6
        JOIN biens b ON v.id_bien = b.id_bien
7
    WHERE
8
        b.type_local = 'Appartement'
        AND v.date BETWEEN '2020-01-01' AND '2020-06-30'
9
10
   GROUP BY
        b.type_local
11
12
```

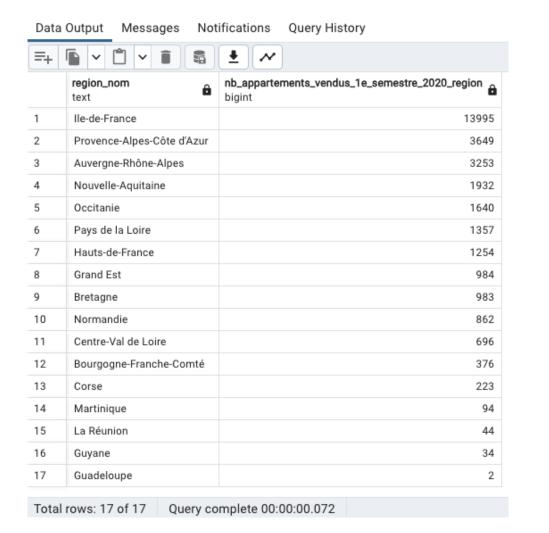


Total rows: 1 of 1 Query complete 00:00:00.069



R2 - Nombre de ventes d'appartements par région pour le 1er semestre 2020

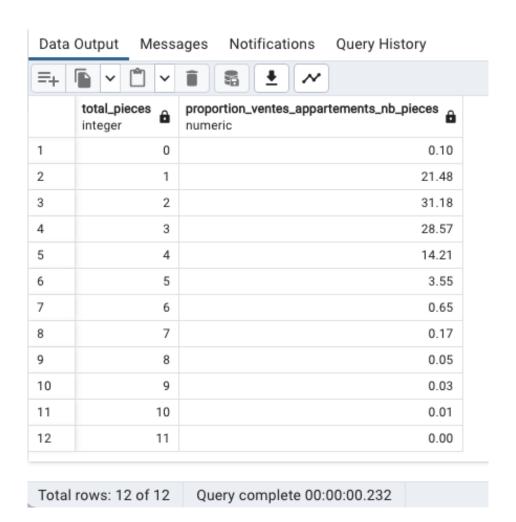
```
Query
 1
    SELECT
2
        r.region_nom,
 3
        count (v.id_vente) as nb_appartements_vendus_1e_semestre_2020_region
 4
    FROM
 5
        ventes v
 6
        JOIN biens b ON v.id_bien = b.id_bien
7
        JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
 8
        JOIN region r ON c.id_region = r.id_region
9
    WHERE
10
        b.type_local = 'Appartement'
11
        AND v.date BETWEEN '2020-01-01' AND '2020-06-30'
    GROUP BY r.region_nom
12
13
    ORDER BY nb_appartements_vendus_1e_semestre_2020_region desc
14
```





R3 - Proportion des ventes d'appartements par le nombre de pièces

```
Query
                                                                                              2
   SELECT
1
2
       b.total_pieces,
       round (count (v.id_vente) * 100.0 /
3
4
             (SELECT count(v.id_vente)
 5
             FROM ventes v
 6
               JOIN biens b ON v.id_bien = b.id_bien
7
             WHERE b.type_local = 'Appartement'), 2) as proportion_ventes_appartements_nb_pieces
8 FROM
9
       ventes v
10
        JOIN biens b ON v.id_bien = b.id_bien
11 WHERE
12
       b.type_local = 'Appartement'
13 GROUP BY
14
       b.total_pieces
15 ORDER BY b.total_pieces
16 ;
```

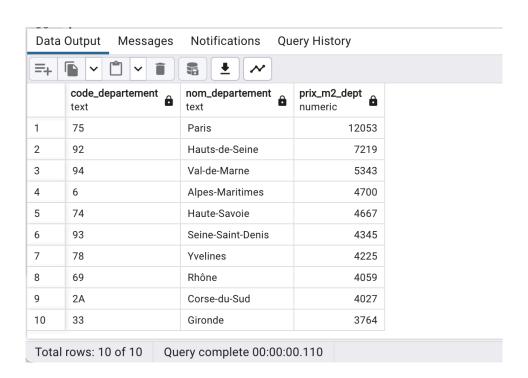




R4 - Liste des 10 départements où le prix du mètre carré est le plus élevé

Query

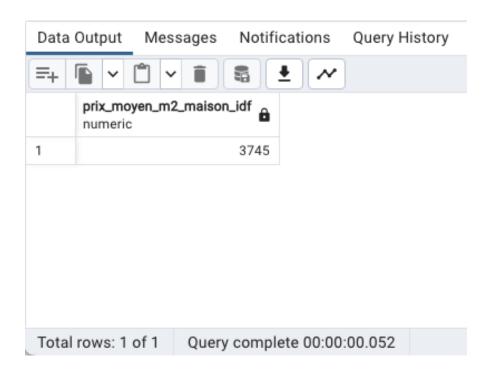
```
1
    SELECT
        c.code_departement,
 2
 3
        c.nom_departement,
        round (avg(v.vente / b.surface_carrez)) as prix_m2_dept
 4
 5
    FROM
 6
 7
        JOIN biens b ON v.id_bien = b.id_bien
        JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
 8
9
    WHERE
        b.surface_carrez IS NOT NULL
10
        AND b.surface_carrez > 0
11
        AND v.vente IS NOT NULL
12
13
    GROUP BY c.code_departement, c.nom_departement
    ORDER BY prix_m2_dept DESC
15
   LIMIT 10
16
```





R5 - Prix moyen du mètre carré d'une maison en Île-de-France

```
Query
1
2
        round (avg(v.vente/b.surface_carrez)) as prix_moyen_m2_maison_idf
    FROM
3
4
        ventes v
5
        JOIN biens b ON v.id_bien = b.id_bien
        JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
6
7
        JOIN region r ON c.id_region = r.id_region
8
   WHERE
9
        b.type_local = 'Maison'
        AND r.region_nom = 'Ile-de-France'
10
11
   ;
```





R6 - Liste des 10 appartements les plus chers avec la région et le nombre de mètres carrés

```
Query
    SELECT
2
        b.surface_carrez as nb_m2,
3
        v.vente as prix_appartement,
        v.id_vente as id_appartement_les_plus_chers,
4
5
        r.region_nom as region
  FROM
6
7
        ventes v
8
        JOIN biens b ON v.id_bien = b.id_bien
9
        JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
        JOIN region r ON c.id_region = r.id_region
10
11 WHERE
        b.type_local = 'Appartement'
12
        AND v.vente IS NOT NULL
13
14 ORDER BY prix_appartement DESC
15 LIMIT 10
16 ;
```

Messages Notifications Query History Data Output

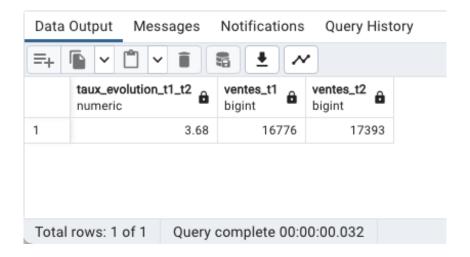
	nb_m2 numeric	prix_appartement numeric	id_appartement_les_plus_chers integer	region text
1	9.1	9000000	6722	Ile-de-France
2	64	8600000	14516	Ile-de-France
3	20.55	8577713	30882	Ile-de-France
4	42.77	7620000	22186	Ile-de-France
5	253.3	7600000	28361	Ile-de-France
6	139.9	7535000	9524	Ile-de-France
7	360.95	7420000	22767	Ile-de-France
8	595	7200000	17967	Ile-de-France
9	122.56	7050000	19503	Ile-de-France
10	79.38	6600000	30978	Ile-de-France

Total rows: 10 of 10 Query complete 00:00:00.076



R7 - Taux d'évolution du nombre de ventes entre le premier et le second trimestre de 2020

```
Query
   WITH
   table1_t1 as (
        SELECT (count(v.id_vente)) as ventes_t1
3
4
        FROM ventes v
        WHERE v.date BETWEEN '2020-01-01' AND '2020-03-31'),
5
 6
   table2_t2 as (
        SELECT (count(v.id_vente)) as ventes_t2
7
8
        FROM ventes v
        WHERE v.date BETWEEN '2020-04-01' AND '2020-06-30')
9
10
   SELECT
11
        round(((ventes_t2 - ventes_t1) * 100.0 / ventes_t1), 2) as taux_evolution_t1_t2,
12
        ventes_t1,
13
        ventes_t2
14
   FROM
       table1_t1,
15
       table2_t2
16
17 ;
```

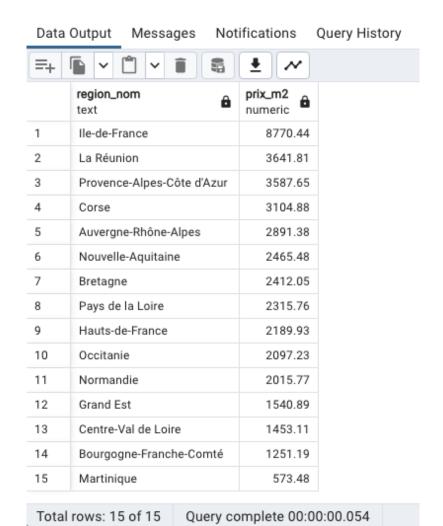




R8 - Le classement des régions par rapport au prix au mètre carré des appartements de plus de 4 pièces

Query

```
SELECT
1
2
        r.region_nom,
        round (avg(v.vente / b.surface_carrez), 2) as prix_m2
3
    FROM
4
5
        ventes v
        JOIN biens b ON v.id_bien = b.id_bien
6
7
        JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
        JOIN region r ON c.id_region = r.id_region
8
9
   WHERE
        b.type_local = 'Appartement'
10
        AND b.total_pieces > 4
11
12
   GROUP BY r.region_nom
   ORDER BY prix_m2 DESC
13
14
```





R9 - Liste des communes ayant eu au moins 50 ventes au 1er trimestre

```
Query
    WITH
 1
 2
    table1 as (
 3
        SELECT
             count (v.id_vente) as nb_ventes,
 4
 5
             c.nom_commune as liste_communes
        FROM
 6
 7
             ventes v
 8
             JOIN biens b ON v.id_bien = b.id_bien
 9
             JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
10
        WHERE
             v.date BETWEEN '2020-01-01' AND '2020-03-31'
11
12
        GROUP BY liste_communes)
13
    SELECT
14
        t1.liste_communes,
15
        t1.nb_ventes
16
    FROM
        table1 t1
17
18
    WHERE
19
        nb_ventes > 50
20
    ORDER BY nb_ventes DESC
21
```

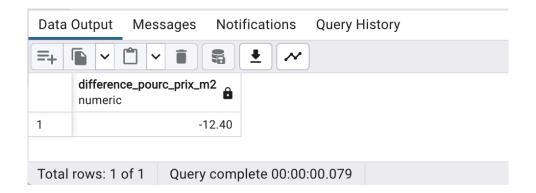






R10 - Différence en pourcentage du prix au mètre carré entre un appartement de 2 pièces et un appartement de 3 pièces.

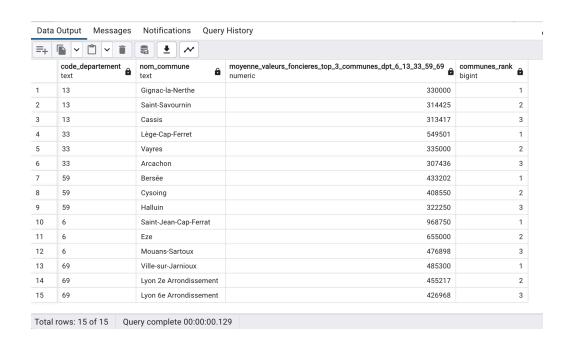
```
Query
    WITH
1
    table1 as (
3
        SELECT
4
             avg(v.vente/b.surface_carrez) as prix_m2_2p
        FROM
5
6
             ventes v
             JOIN biens b ON v.id_bien = b.id_bien
7
8
9
             b.type_local = 'Appartement'
10
             AND b.total_pieces = 2),
   table2 as (
11
        SELECT
12
13
             avg(v.vente/b.surface_carrez) as prix_m2_3p
14
        FROM
15
             ventes v
16
             JOIN biens b ON v.id_bien = b.id_bien
17
             b.type_local = 'Appartement'
18
19
             AND b.total_pieces = 3)
20
21
        round (((t2.prix_m2_3p / t1.prix_m2_2p) - \mathbf{1}) * \mathbf{100.0}, \mathbf{2}) as difference_pourc_prix_m2
22
    FROM
23
        table1 t1,
24
        table2 t2
25
```





R11 - Les moyennes de valeurs foncières pour le top 3 des communes des départements 6, 13, 33, 59 et 69

```
Query
1
    WITH
    table1 as (
2
        SELECT
3
 4
             c.nom_commune,
5
             c.code_departement,
             round(avg(v.vente)) as moyenne_valeurs_foncieres_top_3_communes_dpt_6_13_33_59_69
 6
 7
        FROM
 8
             ventes v
9
             JOIN biens b ON v.id_bien = b.id_bien
10
            JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
11
12
             c.code_departement IN ('6', '13', '33', '59', '69')
13
        GROUP BY c.code_departement, c.nom_commune)
15
    FROM
16
17
        (SELECT
18
             t1.code_departement,
19
             t1.nom_commune,
20
             t1.moyenne_valeurs_foncieres_top_3_communes_dpt_6_13_33_59_69,
21
    RANK () OVER (
        PARTITION BY t1.code_departement
22
23
        ORDER BY t1.moyenne_valeurs_foncieres_top_3_communes_dpt_6_13_33_59_69 DESC)
24
        as communes_rank
25
        FROM
26
            table1 t1) ranked_data
27
    WHERE
28
        communes_rank <= 3</pre>
29
```





R12 - Les 20 communes avec le plus de transactions pour 1000 habitants pour les communes qui dépassent les 10 000 habitants

```
Z
Query
1
    SELECT
2
        c.nom_commune,
        round(count(v.vente) * 1000.0 / c.population_totale, 2) as transactions_1000_habitants
3
    FROM
4
5
        ventes v
        JOIN biens b ON v.id_bien = b.id_bien
 6
7
        JOIN communes c ON b.id_codedep_codecommune = c.id_codedep_codecommune
8
9
        c.population_totale > 10000
10
   GROUP BY c.nom_commune, c.population_totale
    ORDER BY transactions_1000_habitants DESC
11
    LIMIT 20
12
13
    ;
```

