Les requêtes et les résultats

Query Editor | Query History

```sql
-------------------------Question 1-------------------------
--Nombre total d'appartements vendus au 1er semestre 2020
------------------------------------------------------------
SELECT
  COUNT(id_mut) nombre_appartement_vendu
FROM vente
  JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
  JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
WHERE   date_mutation BETWEEN '01/01/2020' AND '30/06/2020'
  AND type_local = 'Appartement'
;
```

Data Output | Explain | Messages | Notifications

	nombre_appartement_vendu bigint
1	31378

Query Editor | Query History

```sql
----------------------------------------question 2----------------------------------------
--Proportion des ventes d'appartements par le nombre de pièces
------------------------------------------------------------------------------------------
SELECT table_1.nombre_piece_principales ,
       CAST ((nbre_bien_par_nbre_piece / total_par_nb_piece) * 100 as decimal(10,2)) proportion_des_ventes_appartements
FROM
        (SELECT nombre_piece_principales , CAST(COUNT(nombre_piece_principales) as decimal(10,2)) AS nbre_bien_par_nbre_piece
        FROM vente
        JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
        JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
         WHERE type_local = 'Appartement'
        GROUP BY nombre_piece_principales
        ) table_1
        INNER JOIN
        (
        SELECT
        CAST(COUNT (id_mut) as decimal(10,2)) total_par_nb_piece
        FROM   vente
                JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
                JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
                WHERE type_local = 'Appartement'
                ) AS table_2 on 1=1
        ORDER BY 1;
```

Data Output | Explain | Messages | Notifications

	nombre_piece_principales integer	proportion_des_ventes_appartements numeric (10,2)
1	0	0.10
2	1	21.48
3	2	31.18
4	3	28.57

Query Editor | Query History

```
36
37
38  ----------------------Qustion3-----------------------------------
39  --Liste des 10 départements où le prix du mètre carré est le plus élevé
40  ------------------------------------------------------------------
41  SELECT
42    code_departement,
43    CAST(AVG(valeur_fonciere/surface_carrez_du_1er_lot)as decimal (10,2)) prix_metre_carre
44  FROM
45    vente
46    JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
47    JOIN adresse ON adresse.id_adresse = bien_immo.id_adresse
48  WHERE valeur_fonciere IS NOT NULL
49    group by code_departement
50  ORDER BY prix_metre_carre DESC
51  LIMIT 10
52  ;
53
54
55
56
57
58
59
```

Data Output | Explain | Messages | Notifications

	code_departement character varying (5)	prix_metre_carre numeric (10,2)
1	75	12052.89
2	92	7219.39
3	94	5343.28
4	6	4700.33

Query Editor | Query History

```
55
56  ----------------------------Question4-----------------------------------------
57  --Prix moyen du mètre carré d'une maison en Île-de-France
58  ------------------------------------------------------------------------------
59  SELECT
60
61    CAST(AVG(valeur_fonciere/surface_carrez_du_1er_lot) AS decimal(10,2)) prix_moyen_maison_ile_de_france
62  FROM
63    vente
64    JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
65    JOIN adresse ON adresse.id_adresse = bien_immo.id_adresse
66    JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
67  WHERE type_local = 'Maison' AND
68    code_departement IN ('75','77','78', '91', '94', '92', '93','95')
69
70  ;
71
```

Data Output | Explain | Messages | Notifications

	prix_moyen_maison_ile_de_france numeric (10,2)
1	3745.01

Query Editor | Query History

```
75
76  --------------------Question5-----------------------------------------
77  --Liste des 10 appartements les plus chers avec le département et le
78  --nombre de mètres
79  ----------------------------------------------------------------------
80  SELECT
81    surface_reelle_bati,
82    code_departement,
83   cast((valeur_fonciere/surface_carrez_du_1er_lot) as decimal (10,2)) prix_metre_carre
84  FROM
85    vente
86    JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
87    JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
88    JOIN adresse ON adresse.id_adresse = bien_immo.id_adresse
89  WHERE type_local = 'Appartement'
90     AND valeur_fonciere IS NOT NULL
91  ORDER BY prix_metre_carre DESC
92  LIMIT 10;
93
94
```

Data Output | Explain | Messages | Notifications

	surface_reelle_bati numeric (6,2)	code_departement character varying (5)	prix_metre_carre numeric (10,2)
1	10.00	75	989010.99
2	14.00	75	673480.00
3	289.00	75	417406.96
4	27.00	75	349539.17
5	90.00	94	262318.84
6	107.00	45	221297.71
7	92.00	78	187117.58

Query Editor | Query History

```
-----------------------------------Question6-----------------------------------------
--Taux d'évolution du nombre de ventes entre le premier et le second trimestre de 2020
-------------------------------------------------------------------------------------

SELECT nb_vte_1_trim, nb_vte_2_trim,
    CAST(((nb_vte_2_trim - nb_vte_1_trim)/nb_vte_1_trim) * 100 as decimal(10,2)) Taux_d_evolution
FROM
  (SELECT
  nat_mut,
  cast (COUNT(id_mut)  as decimal(10,2)) AS nb_vte_1_trim
  FROM
  vente
  WHERE date_mutation BETWEEN '01/01/2020'AND '31/03/2020'
  GROUP BY 1) table_1
INNER JOIN
  (SELECT
  nat_mut,
  cast (COUNT(id_mut)  as decimal(10,2)) AS nb_vte_2_trim
  FROM
  vente
  WHERE date_mutation BETWEEN '01/04/2020'AND '30/06/2020'
  GROUP BY 1) table_2
ON table_1.nat_mut = table_2.nat_mut
  ;
```

Data Output | Explain | Messages | Notifications

	nb_vte_1_trim numeric (10,2)	nb_vte_2_trim numeric (10,2)	taux_d_evolution numeric (10,2)
1	16776.00	17393.00	3.68

Query Editor | Query History

```sql
----------Question 7-----------------------------------
--Liste des communes où le nombre de ventes a augmenté d'au moins 20% entre le premier et le secondtrimestre de 2020
-------------------------------------------------------------
SELECT table_3.commune, taux_evolution
FROM (SELECT   table_1.commune, nb_vte_1_trim, nb_vte_2_trim,
  CAST(((nb_vte_2_trim - nb_vte_1_trim)/nb_vte_1_trim * 100) as decimal(10,2)) taux_evolution
  FROM (  SELECT commune,
          CAST(COUNT(id_mut) as decimal(10,2)) nb_vte_1_trim
          FROM vente
          JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
          JOIN adresse ON adresse.id_adresse = bien_immo.id_adresse
          WHERE date_mutation BETWEEN '01/01/2020' AND '31/03/2020'
          GROUP BY commune )table_1
        INNER JOIN
          (SELECT commune, CAST(COUNT(id_mut) as decimal(10,2)) nb_vte_2_trim
          FROM  vente
          JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
          JOIN adresse ON adresse.id_adresse = bien_immo.id_adresse
          WHERE date_mutation BETWEEN '01/04/2020' AND '30/06/2020'
          GROUP BY commune) table_2
        ON  table_1.commune = table_2.commune) table_3
WHERE taux_evolution >= '20' ;
```

Data Output | Explain | Messages | Notifications

	commune character varying (255)	taux_evolution numeric (10,2)
1	CHANTONNAY	100.00
2	CHATEAUDUN	200.00
3	TRANCHE-SUR-MER (LA)	42.86
4	RETHEL	600.00

Query Editor | Query History

```
143
144  ------------Question 8-------------------------------------
145  --Différence en pourcentage du prix au mètre carré entre un
146  --appartement de 2 pièces et un appartement de 3 pièces
147  ------------------------------------------------------------
148  SELECT table_1.type_local, prix_moyen_metre_carre_2_piece, prix_moyen_metre_carre_3_piece,
149       CAST(((prix_moyen_metre_carre_3_piece - prix_moyen_metre_carre_2_piece)/prix_moyen_metre_carre_2_piece * 100) as decimal(10,2))
150  FROM
151    (SELECT
152     type_local,CAST(AVG((valeur_fonciere/surface_carrez_du_1er_lot)) as decimal(10,2)) prix_moyen_metre_carre_2_piece
153    FROM vente
154    JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
155    JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
156    WHERE nombre_piece_principales = '2'
157    AND type_local = 'Appartement'
158     GROUP BY type_local ) table_1
159  INNER JOIN
160   (SELECT type_local, CAST(AVG((valeur_fonciere/surface_carrez_du_1er_lot)) as decimal(10,2)) prix_moyen_metre_carre_3_piece
161    FROM vente
162    JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
163    JOIN type_local ON type_local.id_type_local = bien_immo.id_type_local
164    WHERE nombre_piece_principales = '3'
165    AND type_local = 'Appartement'
166     GROUP BY type_local
167    ) table_2
168  ON table_1.type_local = table_2.type_local;
169
```

Data Output | Explain | Messages | Notifications

	type_local character varying (50)	prix_moyen_metre_carre_2_piece... numeric (10,2)	prix_moyen_metre_carre_3_piece... numeric (10,2)	difference_en_pourcentage numeric (10,2)
1	Appartement	4908.58	4299.90	-12.40

Query Editor | Query History

```
--------------Question 9-------------------------------------------------------
--Les moyennes de valeurs foncières pour le top 3 des communes des départements 6, 13, 33, 59 et 69
------------------------------------------------------------------------------
SELECT code_departement, commune, top_3_commune, table_2.moyenne_valeur_fonciere
FROM
  (SELECT code_departement, commune, moyenne_valeur_fonciere,
  RANK()
  OVER(PARTITION BY code_departement ORDER BY moyenne_valeur_fonciere DESC) top_3_commune
  FROM
  (SELECT
  code_departement,
  commune,
  CAST(AVG(valeur_fonciere) as decimal(10,2)) moyenne_valeur_fonciere
  FROM
  vente
  JOIN bien_immo ON vente.id_bien_immo = bien_immo.id_bien_immo
  JOIN adresse ON adresse.id_adresse = bien_immo.id_adresse
   WHERE code_departement IN ('6', '13', '33', '59', '69')
  GROUP BY code_departement,commune) table_1) table_2
WHERE top_3_commune <= '3';
```

Data Output | Explain | Messages | Notifications

	code_departement character varying (5)	commune character varying (255)	top_3_commune bigint	moyenne_valeur_fonciere numeric (10,2)
1	13	GIGNAC-LA-NERTHE	1	330000.00
2	13	SAINT SAVOURNIN	2	314425.00
3	13	CASSIS	3	313416.88
4	33	LEGE-CAP-FERRET	1	549500.64
5	33	VAYRES	2	335000.00
6	33	ARCACHON	3	307435.93
7	59	BERSEE	1	433202.00