

requete 01

```

1  -- Nombre total d'appartements vendus au 1er semestre 2020.
2  • SELECT count(*) as n_ventes
3     FROM vente AS v
4     JOIN bien AS b ON v.id_bien = b.id_bien
5     WHERE date_mutation BETWEEN '2020-01-01' AND '2020-06-30'
6     AND type_local = 'Appartement';

```

Result Grid

n_ventes
31036

```

1  -- Le nombre de ventes d'appartement par région pour le 1er semestre 2020.
2  • SELECT r.reg_nom, count(*) as nb_vente
3     FROM vente AS v
4     JOIN bien AS b ON v.id_bien = b.id_bien
5     JOIN commune AS c ON b.com_code = c.com_code
6     join departement as d on d.dep_code=c.dep_code
7     join region as r on r.reg_code=d.reg_code
8     WHERE v.date_mutation BETWEEN '2020-01-01' AND '2020-06-01'
9     AND b.type_local = 'Appartement'
10    GROUP BY r.reg_nom;

```

Result Grid

reg_nom	nb_vente
Ile-de-France	5522
Auvergne-Rhône-Alpes	2466
Provence-Alpes-Côte d'Azur	2102
Nouvelle-Aquitaine	1346
Occitanie	1167

requete 03\*

```

1  -- Proportion des ventes d'appartements par le nombre de pièces.
2  • WITH n_ventes AS
3    (SELECT COUNT(*) AS nb_ventes
4     FROM vente AS v
5     JOIN bien AS b ON b.id_bien=v.id_bien
6     WHERE b.type_local = 'Appartement')
7    select b.nombre_pieces_principales as n_pieces,
8    round(count(*)/(select nb_ventes from n_ventes)*100,2) as proportion
9    from vente as v
10   join bien as b on b.id_bien=v.id_bien
11   where b.type_local = 'Appartement'
12   group by nombre_pieces_principales
13   order by proportion desc;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	n_pieces	proportion
▶	2	31.13
	3	28.55
	1	21.51
	4	14.22
	5	3.58
	6	0.65
	7	0.17
	0	0.10
	8	0.05
	9	0.03
	10	0.03

requete 04 bien

```

1  -- Liste des 10 départements où le prix du mètre carré est le plus élevé
2  • select d.dep_nom,
3    round(avg(v.valeur_fonciere/b.surface_carrez_1er_lot), 2) as prixm2
4    from vente as v
5    join bien as b on v.id_bien = b.id_bien
6    join commune as c on b.com_code = c.com_code
7    join departement as d on d.dep_code = c.dep_code
8    group by d.dep_nom
9    order by prixm2 desc
10   limit 10;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	dep_nom	prixm2
▶	Paris	12052.82
	Haute-Savoie	4804.12
	Alpes-Maritimes	4705.18
	Yvelines	4250.1
	Rhône	4153.02
	Gironde	3833.92
	Hautes-Alpes	3754.92
	Savoie	3700.85
	Charente-Maritime	3638.77
	Calvados	3492.74

requete 05 x bien

1 -- Prix moyen du mètre carré d'une maison en Île-de-France.  
 2 • select round(avg(v.valeur\_fonciere/b.surface\_carrez\_1er\_lot),2) as prix,  
 3 r.reg\_nom  
 4 from vente as v  
 5 join bien as b on v.id\_bien=b.id\_bien  
 6 join commune as c on b.com\_code=c.com\_code  
 7 join departement as d on d.dep\_code=c.dep\_code  
 8 join region as r on r.reg\_code=d.reg\_code  
 9 WHERE b.type\_local = 'maison' and r.reg\_nom= 'Ile-de-France'  
 10 group by r.reg\_nom;

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

	prix	reg_nom
▶	3516.44	Ile-de-France

requete 06 x

1 -- Liste des 10 appart les plus chers avec la région et le nombre de m2.  
 2 • select b.type\_local,v.valeur\_fonciere,r.reg\_nom,b.surface\_carrez\_1er\_lot  
 3 from bien AS b  
 4 join vente AS v on v.id\_bien=b.id\_bien  
 5 join commune as c on b.com\_code=c.com\_code  
 6 join departement as d on d.dep\_code=c.dep\_code  
 7 join region as r on r.reg\_code=d.reg\_code  
 8 where b.type\_local='Appartement'  
 9 order by v.valeur\_fonciere desc  
 10 limit 10;

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

	type_local	valeur_fonciere	reg_nom	surface_carrez_1er_lot
▶	Appartement	9000000	Ile-de-France	9.1
	Appartement	8577713	Ile-de-France	20.55
	Appartement	7620000	Ile-de-France	42.77
	Appartement	7600000	Ile-de-France	253.3
	Appartement	7535000	Ile-de-France	139.9
	Appartement	7420000	Ile-de-France	360.95
	Appartement	7200000	Ile-de-France	595
	Appartement	7050000	Ile-de-France	122.56
	Appartement	6600000	Ile-de-France	79.38
	Appartement	6500000	Ile-de-France	317.05

requete 07

```

1  -- Taux d'évolution nombre de ventes entre le 1er et le 2sd trimestre de 2020.
2  with n1 as(
3      select count(*) as nb_ventes1
4      from vente
5      where date_mutation between '2020-01-01' and '2020-03-31'
6  ), n2 as(
7      select count(*) as nb_ventes2
8      from vente
9      where date_mutation between '2020-04-01' and '2020-06-30'
10 )
11 select * , round((nb_ventes2-nb_ventes1) /nb_ventes1 *100,2) as taux
12 from n1,n2

```

Result Grid

	nb_ventes1	nb_ventes2	taux
▶	16769	17382	3.66

requete 08

```

1  -- Le classement des régions par rapport prix au m2 des appartement de plus de 4 pièces.
2  select r.reg_nom,round(avg(v.valeur_fonciere/b.surface_carrez_1er_lot),2) as prixm2
3  from vente as v
4  join bien as b on v.id_bien=b.id_bien
5  join commune as c on b.com_code=c.com_code
6  join departement as d on d.dep_code=c.dep_code
7  join region as r on r.reg_code=d.reg_code
8  where b.type_local='Appartement' and nombre_pieces_principales>4
9  group by r.reg_nom
10 order by prixm2 desc;

```

Result Grid

	reg_nom	prixm2
▶	Ile-de-France	11228.8
	Provence-Alpes-Côte d'Azur	4072.63
	Auvergne-Rhône-Alpes	2921.61
	Nouvelle-Aquitaine	2539.58
	Pays de la Loire	2457.17
	Bretagne	2412.05
	Occitanie	2192.71
	Hauts-de-France	2189.93
	Normandie	2015.77
	Grand Est	1742.11
	Centre-Val de Loire	1452.85
	Bourgogne-Franche-Comté	1298.01

requete 09

```

1  -- Liste des communes ayant eu au moins 50 ventes au 1er trimestre
2  • select c.com_nom, count(*) as total_ventes
3    from vente as v
4   join bien as b on v.id_bien = b.id_bien
5   join commune as c on b.com_code = c.com_code
6   where v.date_mutation between '2020-01-01' and '2020-03-31'
7   group by c.com_nom
8   having total_ventes>=50;

```

Result Grid

	com_nom	total_ventes
▶	Antibes	77
	Nice	172
	La Ciotat	62
	Marseille 8e	81
	Toulouse	78
	Bordeaux	157

requete 10

```

1  -- Différence en % du prix au m2 entre appartement de 2pièces et appartement de 3pièces.
2  • with prix_app2 as (select( round(avg(v.valeur_fonciere/b.surface_carrez_1er_lot),2))as prix2
3    ,b.nombre_pieces_principales as n_pieces
4    from vente as v
5   join bien as b on b.id_bien=v.id_bien
6   where b.nombre_pieces_principales=2
7   )
8  , prix_app3 as (select( round(avg(v.valeur_fonciere/b.surface_carrez_1er_lot),2)) as prix3
9    ,b.nombre_pieces_principales as n_pieces
10   from vente as v
11  join bien as b on b.id_bien=v.id_bien
12  where b.nombre_pieces_principales=3
13  )
14  select * , round(((prix3-prix2)/prix2)*100,2) as pourcentage_prix
15  from prix_app2, prix_app3;

```

Result Grid

	prix2	n_pieces	prix3	n_pieces	pourcentage_prix
▶	4882.08	2	4255.33	3	-12.84

requete 11

```

1  -- Les moy de valeurs foncières pour le top3 des communes des départements(6,13,33,59,69
2  • with table1 as(select round(avg(v.valeur_fonciere),2)
3    as moyenne_val_fonciere, d.dep_code, c.com_nom
4    from vente as v
5    join bien as b on v.id_bien=b.id_bien
6    join commune as c on c.com_code=b.com_code
7    join departement as d on d.dep_code=c.dep_code
8    where d.dep_code in (6, 13, 33, 59, 69)
9    group by d.dep_code, c.com_nom),
10  table2 as (select *, RANK() OVER (PARTITION BY dep_code
11    ORDER BY moyenne_val_fonciere DESC) as rang
12    from table1)
13  select * from table2 where rang < 4

```

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

	moyenne_val_fonciere	dep_code	com_nom	rang
▶	968750.00	6	Saint-Jean-Cap-Ferrat	1
	655000.00	6	Eze	2
	476898.13	6	Mouans-Sartoux	3
	330000.00	13	Gignac-la-Nerthe	1
	314425.00	13	Saint-Savournin	2
	313416.88	13	Cassis	3
	549500.64	33	Lège-Cap-Ferret	1
	335000.00	33	Vayres	2
	307435.93	33	Arcachon	3
	433202.00	59	Bersée	1

requete 12

```

1  -- Les20communes avec le + de transac pour 1000habitants pour les communes qui dépassent 10000habitants.
2  • select c.com_nom,round(count(*)*1000/c.ptot,2) as nb_transactions
3    from vente as v
4    join bien as b on v.id_bien=b.id_bien
5    join commune as c on c.com_code=b.com_code
6    where c.ptot>10000
7    group by c.com_nom, c.ptot
8    order by nb_transactions desc
9    limit 20;

```

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

	com_nom	nb_transactions
▶	Toulouse	7.58
	Lyon 6e	3.19
	Croissy-sur-Seine	1.30
	Seignosse	1.26
	Yvetot	1.24
	Pontivy	0.76
	Saint-Vincent-de-Tyrosse	0.60
	Bruges	0.56
	Montvilliers	0.51
	Vernouillet	0.50
	Mâcon	0.44
	Charbonnières-les-Bains	0.37
	Le Barp	0.29
	Laxou	0.25
	Choroes	0.24