Document avec les requêtes et les résultats

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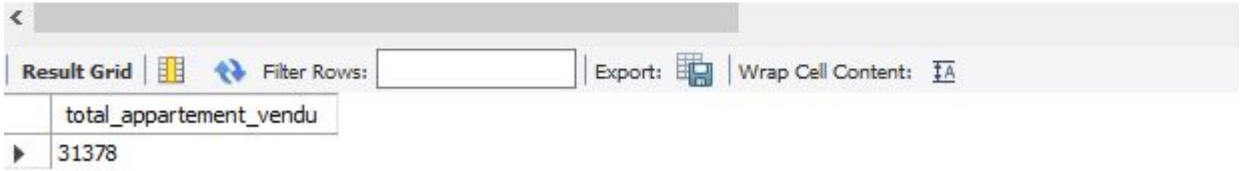
Question 1

```sql
SELECT count(*) AS 'total_appartement_vendu' FROM transaction
JOIN bien
ON transaction.id_bien = bien.id_bien
WHERE (transaction.date_mutation BETWEEN '2020-01-01' AND '2020-06-30')
AND bien.type_local = 'Appartement';
```



Question 2

```
1  SELECT nb_piece_principal, (count(bien.nb_piece_principal)*100 / (SELECT count(*)
2  FROM bien)) AS score
3  FROM bien
4  GROUP BY bien.nb_piece_principal
5  ORDER BY bien.nb_piece_principal;
```

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

nb_piece_principal	score
0	0.0967
1	19.8852
2	29.4309
3	27.9986
4	16.1946
5	4.8915
6	1.0808
7	0.2870
8	0.0820
9	0.0381
10	0.0117
11	0.0029

Question 3

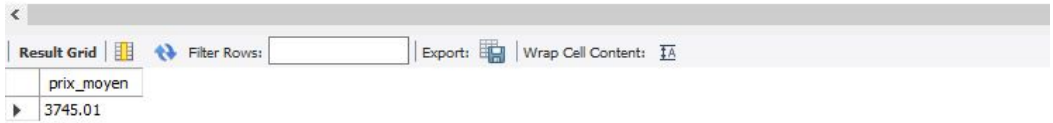
```sql
SELECT commune.code_departement, ROUND(AVG(transaction.valeur_fonciere / bien.surface_reel),2) as "prix"
FROM transaction
LEFT JOIN bien
ON transaction.id_bien = bien.id_bien
LEFT JOIN adresse
ON bien.id_adresse = adresse.id_adresse
left join commune
on adresse.id_commune = commune.id_commune
group by commune.code_departement
ORDER BY AVG(transaction.valeur_fonciere / bien.surface_reel) DESC
limit 10;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

code_departement	prix
75	12121.88
92	7405.17
94	5398.59
6	4681.76
93	4381.92
74	4151.70
78	4124.86
69	4063.92
201	3905.71
33	3838.74

Question 4

```sql
SELECT round(avg(t.valeur_fonciere / surface_carrez),2) as 'prix_moyen'
from transaction t
left join bien b
on t.id_bien = b.id_bien
left join adresse a
on b.id_adresse = a.id_adresse
left join commune c
on a.id_commune = c.id_commune
where c.code_departement in (91,92,75,77,93,95,94,78) and b.type_local = 'Maison';
```



Question 5

```sql
SELECT bien.id_bien, transaction.valeur_fonciere, bien.surface_reel, commune.code_departement
FROM transaction
LEFT JOIN bien
ON transaction.id_bien = bien.id_bien
LEFT JOIN adresse
ON bien.id_adresse = adresse.id_adresse
LEFT JOIN commune
ON adresse.id_commune = commune.id_commune
WHERE bien.type_local = 'Appartement'
ORDER BY transaction.valeur_fonciere DESC
LIMIT 10;
```

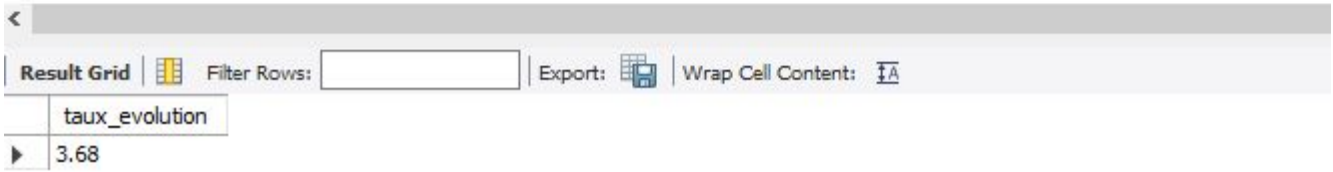
Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

id_bien	valeur_fonciere	surface_reel	code_departement
15898	9000000.00	10	75
6278	8600000.00	62	91
13844	8577713.00	289	75
16429	7620000.00	42	75
13715	7600000.00	200	75
13371	7535000.00	143	75
16096	7420000.00	357	75
16226	7200000.00	241	75
13436	7050000.00	310	75
13373	6600000.00	76	75

Question 6

```sql
WITH
table1 AS (SELECT COUNT(date_mutation) AS 'vente_trim1' FROM transaction
            WHERE date_mutation BETWEEN '2020-01-01' AND '2020-03-31'),
table2 AS (SELECT COUNT(date_mutation) AS 'vente_trim2' FROM transaction
            WHERE date_mutation BETWEEN '2020-04-01' AND '2020-06-30')

SELECT ROUND(((vente_trim2 - vente_trim1) / vente_trim1)*100, 2) AS 'taux_evolution'
FROM table1, table2;
```



Question 7

```sql
WITH
essentiel AS (SELECT t.date_mutation, t.valeur_fonciere, c.commune FROM transaction t
LEFT JOIN bien b
ON t.id_bien = b.id_bien
LEFT JOIN adresse a
ON b.id_adresse = a.id_adresse
LEFT JOIN commune c
ON a.id_commune = c.id_commune),

table1 AS (SELECT commune, COUNT(date_mutation) AS 'nb_vente1' FROM essentiel
            WHERE date_mutation BETWEEN '2020-01-01' AND '2020-03-31'
            GROUP BY commune),
table2 AS (SELECT commune, COUNT(date_mutation) AS 'nb_vente2' FROM essentiel
            WHERE date_mutation BETWEEN '2020-04-01' AND '2020-06-30'
            GROUP BY commune)

SELECT commune, ROUND(((nb_vente1 - nb_vente2) / nb_vente1)*100, 2) as taux FROM table1 JOIN table2 USING (commune)
HAVING taux > 20
ORDER BY taux DESC;
```

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

commune	taux
MARSEILLE 8EME	98.77
MARSEILLE 9EME	98.48
MARSEILLE 2EME	97.67
LA CIOTAT	96.77
MARSEILLE 10EME	96.30
MARSEILLE 15EME	96.15
ASNIERES-SUR-SEINE	95.06
DRANCY	94.74

Result 2

Question 8

```sql
WITH
table1 AS (SELECT ROUND(AVG(transaction.valeur_fonciere/bien.surface_carrez),2) AS 'surfacecarré2'
FROM transaction
LEFT JOIN bien
ON transaction.id_bien = bien.id_bien
WHERE bien.nb_piece_principal = 2),

table2 AS (SELECT ROUND(AVG(transaction.valeur_fonciere/bien.surface_carrez),2) AS 'surfacecarré3'
FROM transaction
LEFT JOIN bien
ON transaction.id_bien = bien.id_bien
WHERE bien.nb_piece_principal = 3),

table3 AS (SELECT * FROM table1, table2)


SELECT *, round(((table3.surfacecarré2 - table3.surfacecarré3)/table3.surfacecarré2)*100,2) AS 'diffrence en %'
FROM table3;
```

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

surfacecarré2	surfacecarré3	diffrence en %
4865.20	4243.73	12.77

Question 9

```sql
WITH
essentiel AS (SELECT t.date_mutation, t.valeur_fonciere, c.commune, c.code_departement
FROM transaction t
LEFT JOIN bien b
ON t.id_bien = b.id_bien
LEFT JOIN adresse a
ON b.id_adresse = a.id_adresse
LEFT JOIN commune c
ON a.id_commune = c.id_commune),

table1 AS (SELECT * FROM essentiel
WHERE code_departement in (6,13,33,59,69)),

table1bis AS (SELECT code_departement, commune, AVG(valeur_fonciere) AS 'valeur_fonciere'
FROM table1
GROUP BY commune),

table2 AS (SELECT * FROM (SELECT *, RANK() OVER(PARTITION BY code_departement ORDER BY valeur_fonciere DESC) AS ranking
FROM table1bis) i WHERE i.ranking <=3)

SELECT * FROM table2;
```

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

code_departement	commune	valeur_fonciere	ranking
6	SAINT-JEAN-CAP-FERRAT	968750.000000	1
6	EZE	655000.000000	2
6	MOUANS-SARTOUX	476898.000000	3
13	GIGNAC-LA-NERTHE	330000.000000	1
13	SAINT SAVOURNIN	314425.000000	2
13	CASSIS	313416.875000	3
33	LEGE-CAP-FERRET	549500.636364	1
33	VAYRES	335000.000000	2