

Question 1

Nombre total d'appartements vendus au 1er semestre 2020.

```
SELECT count(distinct id_vente) AS No_Vente_1er_semestre  
FROM vente  
WHERE date_vente between '2020-01-01' and '2020-06-30';
```

Question 2

Proportion des ventes d'appartements par le nombre de pièces.

```
select no_pieces, count(id_local)*100/(select count(id_local) from local where type_local=  
"appartement") as 'proportion_vente(%)' from local  
where type_local = "appartement"  
group by no_pieces  
order by no_pieces;
```

Question 3

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

```
SELECT  
code_dep,  
sum(val_fonciere)/sum(surface) as prix_m2  
from local  
INNER JOIN vente on vente.id_local = local.id_adresse  
INNER JOIN adresse on adresse.id_adresse = local.id_adresse  
  
group by code_dep  
order by prix_m2 DESC  
LIMIT 10;
```

Question 4:

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

SELECT

avg(val_fonciere)/avg(surface) as prix_m2_idf

from local

INNER JOIN vente on vente.id_local = local.id_adresse

INNER JOIN adresse on adresse.id_adresse = local.id_adresse

WHERE code_dep in (75, 77, 78, 92, 91, 93, 94, 95) and type_local= 'maison';

Question 5:

Liste des 10 appartements les plus chers avec le département et le nombre de mètres carrés.

select

code_dep, surface, val_fonciere, vente.id_local

from local

INNER JOIN vente on vente.id_local = local.id_adresse

INNER JOIN adresse on adresse.id_adresse = local.id_adresse

WHERE type_local= 'appartement'

order by val_fonciere DESC

LIMIT 10;

Question 6:

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

WITH

vente_s1 as (select count(id_vente) as nb_vente_s1

from vente

where date_vente between '2020-01-02' and '2020-03-31'),

vente_s2 as (select count(id_vente) as nb_vente_s2

from vente

where date_vente between '2020-04-01' and '2020-06-30')

select ((nb_vente_s2-nb_vente_s1)/(nb_vente_s1)*100) as taux_evolution from vente_s1, vente_s2;

Question 7:

Liste des communes où le nombre de ventes a augmenté d'au moins 20% entre le premier et le second trimestre de 2020

WITH

vente_s1 as (select count(vente.id_vente) as nb_vente_s1, adresse.nom_commune
from vente

INNER JOIN local on local.id_local = vente.id_local

INNER JOIN adresse on adresse.id_adresse = local.id_adresse

where date_vente between '2020-01-02' and '2020-03-31'

group by nom_commune),

vente_s2 as (select count(vente.id_vente) as nb_vente_s2, adresse.nom_commune
from vente

INNER JOIN local on local.id_local = vente.id_local

INNER JOIN adresse on adresse.id_adresse = local.id_adresse

where date_vente between '2020-04-01' and '2020-06-30'

group by nom_commune)

select vente_s1.nom_commune, ((nb_vente_s2-nb_vente_s1)/nb_vente_s1*100) as 'taux_evolution'

from vente_s1, vente_s2

where vente_s2.nom_commune = vente_s1.nom_commune and ((nb_vente_s2-
nb_vente_s1)/nb_vente_s1*100)>20

;

Question 8:

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

WITH

t2 as (Select avg(vente.val_fonciere/local.surface) as prix_m2_t2

from vente

inner join local ON local.id_local=vente.id_local

where type_local = 'appartement' and no_pieces=2

),

t3 as (select avg(vente.val_fonciere/local.surface) as prix_m2_t3

from vente

inner join local ON local.id_local=vente.id_local

where type_local = 'appartement' and no_pieces=3)

select round((((t3.prix_m2_t3-t2.prix_m2_t2)/t2.prix_m2_t2*100),2) as 'difference_prix_m2(%)'

from t2, t3;

Question 9 :

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

with

```
rang_par_dep as(  
select nom_commune, code_dep, avg(val_fonciere) as valeur_moyenne,  
RANK() OVER (PARTITION BY code_dep ORDER BY avg(val_fonciere) DESC) as rang from vente  
INNER join local on vente.id_local = local.id_local  
INNER JOIN adresse on local.id_adresse = adresse.id_adresse  
where code_dep in (59,69,33,13,06)  
group by nom_commune, code_dep)
```

```
select * from rang_par_dep  
where rang<=3;
```

Voir les doublons

```
-----  
select code_dep, code_id_commune, nom_commune, no_voie, type_de_voie, nom_voie, count(*)  
from adresse  
  
group by 1,2,3,4,5,6  
  
having count(*)>1;
```