

**Partie 2 :**  
**Interrogation et mise à jour de la BD IMMO**

**Script SQL de toutes les requêtes :**

*-- Partie 2 : Interrogation et Mise à jour de la BD IMMO*

*-- Q1 :*

```
SELECT CATEGORIE, COUNT(*)
FROM BIEN
GROUP BY CATEGORIE;
```

```
SELECT TYPE, COUNT(*)
FROM BIEN
GROUP BY TYPE
ORDER BY TYPE ASC;
```

*-- Q2 :*

```
SELECT IDE, LPAD('-', 2*LEVEL, ' ') || DESIGNATION
FROM ESPACE
WHERE IDE != 945
CONNECT BY PRIOR IDE = IDERATTACH
START WITH IDE = 945;
```

*-- Q3 :*

*-- Formulation avec opérateurs ensemblistes*

```
SELECT *
FROM PROPRIO
MINUS
SELECT *
FROM PROPRIO
WHERE IDP IN (
    SELECT IDP
    FROM BIEN
    WHERE VILLE='MARSEILLE');
```

*-- Formulation avec jointure externe*

```
SELECT PROPRIO.IDP, NOM, PRENOM
FROM PROPRIO
LEFT OUTER JOIN BIEN
ON PROPRIO.IDP = BIEN.IDP
AND BIEN.VILLE = 'MARSEILLE'
WHERE IDEBIEN IS NULL
ORDER BY PROPRIO.IDP ASC;
```

-- Q4 :

```
SELECT VILLE, COUNT(*)
FROM BIEN
WHERE CATEGORIE = 'MAISON DE VILLE'
GROUP BY VILLE
HAVING COUNT(*) >= 10;
```

-- Q5 :

```
SELECT IDEBIEN, PRIX, (PRIX - MIN_PRIX_BIEN) ECART_AVEC_MIN_BIEN
FROM BIEN, (
    SELECT MIN(PRIX) MIN_PRIX_BIEN
    FROM BIEN)
WHERE PRIX >= MIN_PRIX_BIEN
ORDER BY ECART_AVEC_MIN_BIEN ASC;
```

-- Q6 :

```
SELECT IDEBIEN, BIEN.CATEGORIE, PRIX, (PRIX - MIN_PRIX_CAT) ECART_AVEC_MIN_BIEN
FROM BIEN, (
    SELECT CATEGORIE, MIN(PRIX) MIN_PRIX_CAT
    FROM BIEN
    GROUP BY CATEGORIE) MIN_CAT
WHERE BIEN.CATEGORIE = MIN_CAT.CATEGORIE
AND PRIX >= MIN_PRIX_CAT
ORDER BY CATEGORIE, ECART_AVEC_MIN_BIEN ASC;
```

-- Q7 :

```
SELECT IDP, COUNT(IDEBIEN)
FROM BIEN
WHERE IDP IN (
    SELECT IDP
    FROM BIEN
    WHERE TYPE='STUDIO'
    GROUP BY IDP
    HAVING COUNT(*) >= 2)
GROUP BY IDP
ORDER BY IDP ASC;
```

-- Q8 :

```
SELECT IDP, NOM, PRENOM
FROM PROPRIO
WHERE IDP IN (
    SELECT IDP
    FROM BIEN
    WHERE CATEGORIE IS NOT NULL
    GROUP BY IDP
    HAVING COUNT(DISTINCT CATEGORIE) in (
        SELECT COUNT(DISTINCT CATEGORIE)
        FROM BIEN))
ORDER BY IDP ASC;
```

-- Q9 :

```
CREATE VIEW MAX_SUPERFICIE_TERRASSE AS
SELECT MAX(SUPERFICIE) MAX_SUP
FROM ESPACE
WHERE DESIGNATION='TERRASSE';

SELECT IDEBIEN
FROM BIEN
WHERE IDEBIEN IN (
    SELECT IDE
    FROM ESPACE
    WHERE IDERATTACH IS NULL
    CONNECT BY IDE = PRIOR IDERATTACH
    START WITH IDE IN (
        SELECT IDE
        FROM ESPACE, MAX_SUPERFICIE_TERRASSE
        WHERE DESIGNATION = 'TERRASSE'
        AND SUPERFICIE = MAX_SUP));
```

-- Q10 :

```
SELECT DISTINCT IDP
FROM BIEN
WHERE CATEGORIE IN (
    SELECT CATEGORIE
    FROM BIEN
    WHERE IDP = 105)
AND IDP != 105
ORDER BY IDP ASC;
```

-- Q11 :

```
CREATE VIEW MIN_PRIX_CATEGORIE AS
SELECT CATEGORIE, MIN(PRIX) MIN_PRIX
FROM BIEN
GROUP BY CATEGORIE;
```

```
SELECT IDEBIEN, BIEN.CATEGORIE, PRIX, (PRIX - MIN_PRIX) ECART_AVEC_MIN_BIEN
FROM BIEN, MIN_PRIX_CATEGORIE
WHERE BIEN.CATEGORIE = MIN_PRIX_CATEGORIE.CATEGORIE
AND PRIX >= MIN_PRIX
ORDER BY CATEGORIE, ECART_AVEC_MIN_BIEN ASC;
```

**Résultats requêtes 1, 5 et 7 :**