

## 5 MIDI'HOME CAMPING™ - DIVISIONS

**R70 :** le nom des bungalows qui proposent tous les services (c'est-à-dire tous les services qui sont dans la table Services).

```
SELECT nomBungalow
FROM Bungalows b
JOIN Proposer p ON b.idBungalow = p.idBungalow
GROUP BY b.idBungalow, nomBungalow
HAVING COUNT(*) = (SELECT COUNT(*)
                    FROM Services);

Ou

SELECT nomBungalow
FROM Bungalows b
WHERE NOT EXISTS (SELECT idService
                  FROM Services
                  MINUS
                  SELECT idService
                  FROM Proposer p
                  WHERE p.idBungalow = b.idBungalow);
```

**R71 :** le nom des bungalows qui proposent tous les services de la catégorie 'Luxe'.

```
SELECT nomBungalow
FROM Bungalows b
JOIN Proposer p ON b.idBungalow = p.idBungalow
JOIN Services s ON p.idService = s.idService
WHERE categorieService = 'Luxe'
GROUP BY b.idBungalow, nomBungalow
HAVING COUNT(*) = (SELECT COUNT(*)
                  FROM Services
                  WHERE categorieService = 'Luxe');

Ou

SELECT nomBungalow
FROM Bungalows b
WHERE NOT EXISTS (SELECT idService
                  FROM Services
                  WHERE categorieService = 'Luxe'
                  MINUS
                  SELECT idService
                  FROM Proposer p
                  WHERE p.idBungalow = b.idBungalow);
```

**R72 :** le nom des bungalows qui proposent tous les services proposés par le bungalow qui se nomme 'La Poubelle'.

```
SELECT nomBungalow
FROM Bungalows b
JOIN Proposer p ON b.idBungalow = p.idBungalow
WHERE idService IN (SELECT idService
                   FROM Bungalows b
                   JOIN Proposer p ON b.idBungalow = p.idBungalow
                   WHERE nomBungalow = 'La Poubelle')
GROUP BY b.idBungalow, nomBungalow
HAVING COUNT(*) = (SELECT COUNT(*)
                  FROM Bungalows b
                  JOIN Proposer p ON b.idBungalow = p.idBungalow
                  WHERE nomBungalow = 'La Poubelle');

Ou

SELECT nomBungalow
FROM Bungalows b
WHERE NOT EXISTS (SELECT idService
                  FROM Bungalows b
                  JOIN Proposer p ON b.idBungalow = p.idBungalow
                  WHERE nomBungalow = 'La Poubelle'
                  MINUS
                  SELECT idService
                  FROM Proposer p
                  WHERE p.idBungalow = b.idBungalow);
```

**R73 :** le nom des clients qui ont réalisé au moins une location dans toutes les villes pour lesquelles il y a des campings.

```
SELECT nomClient
FROM Clients cl
JOIN Locations l ON cl.idClient = l.idClient
JOIN Bungalows b ON l.idBungalow = b.idBungalow
JOIN Campings ca ON b.idCamping = ca.idCamping
GROUP BY cl.idClient, nomClient
HAVING COUNT(DISTINCT villeCamping) = (SELECT COUNT(DISTINCT villeCamping)
                                       FROM Campings);

Ou

SELECT nomClient
FROM Clients c
WHERE NOT EXISTS (SELECT villeCamping
                  FROM Campings
                  MINUS
                  SELECT villeCamping
                  FROM Locations l
                  JOIN Bungalows b ON l.idBungalow = b.idBungalow
                  JOIN Campings camp ON b.idCamping = camp.idCamping
                  WHERE l.idClient = c.idClient);
```

**R74 :** le nom des clients qui ont loué tous les bungalows loués par la cliente Agathe Zeblouse.

```
SELECT nomClient
FROM Clients c
JOIN Locations l ON c.idClient = l.idClient
WHERE idBungalow IN (SELECT idBungalow
                    FROM Locations l
                    JOIN Clients c ON l.idClient = c.idClient
                    WHERE nomClient = 'Zeblouse'
                    AND prenomClient = 'Agathe')
GROUP BY c.idClient, nomClient
HAVING COUNT(DISTINCT idBungalow) = (SELECT COUNT(DISTINCT idBungalow)
                                       FROM Locations l
                                       JOIN Clients c ON l.idClient = c.idClient
                                       WHERE nomClient = 'Zeblouse'
                                       AND prenomClient = 'Agathe');

Ou

SELECT nomClient
FROM Clients c
WHERE NOT EXISTS (SELECT idBungalow
                  FROM Locations l
                  JOIN Clients c ON l.idClient = c.idClient
                  WHERE nomClient = 'Zeblouse'
                  AND prenomClient = 'Agathe'
                  MINUS
                  SELECT idBungalow
                  FROM Locations l
                  WHERE l.idClient = c.idClient);
```

**R75 :** le nom et le prénom des clients qui ont sont allés exactement dans les mêmes campings que la cliente Agathe Zeblouse.

```
SELECT nomClient, prenomClient
FROM Clients cl
WHERE NOT EXISTS (SELECT idCamping
                  FROM Bungalows b
                  JOIN Locations l ON l.idBungalow = b.idBungalow
                  JOIN Clients c ON c.idClient = l.idClient
                  WHERE nomClient = 'Zeblouse' AND prenomClient = 'Agathe'
                  MINUS
                  SELECT idCamping
                  FROM Bungalows b
                  JOIN Locations l ON l.idBungalow = b.idBungalow
                  WHERE l.idClient = cl.idClient)
AND NOT EXISTS (SELECT idCamping
                FROM Bungalows b
                JOIN Locations l ON l.idBungalow = b.idBungalow
                WHERE l.idClient = cl.idClient
                MINUS
                SELECT idCamping
                FROM Bungalows b
                JOIN Locations l ON l.idBungalow = b.idBungalow
                JOIN Clients c ON c.idClient = l.idClient
                WHERE nomClient = 'Zeblouse' AND prenomClient = 'Agathe');
```

**R81 :** le numéro, le nom et le prénom des clients qui n'ont jamais fait de location dans un camping de Palavas. Les clients doivent être classés par ordre lexicographique de leur nom.

```
SELECT idClient, nomClient, prenomClient
FROM Clients c
MINUS
SELECT cl.idClient, nomClient, prenomClient
FROM Clients cl
JOIN Locations l ON cl.idClient = l.idClient
JOIN Bungalows b ON l.idBungalow = b.idBungalow
JOIN Campings ca ON b.idCamping = ca.idCamping
WHERE villeCamping = 'Palavas'
ORDER BY nomClient;
```

**R82 :** le nom des services proposés par le bungalow le plus grand du camping 'Les Flots Bleus'.

```
SELECT nomService
FROM Services s
JOIN Proposer p ON p.idService = s.idService
WHERE idBungalow IN (SELECT idBungalow
FROM Bungalows b
JOIN Campings c ON b.idCamping = c.idCamping
WHERE nomCamping = 'Les Flots Bleus'
AND superficieBungalow = (SELECT MAX(superficieBungalow)
FROM Bungalows b
JOIN Campings c
ON b.idCamping = c.idCamping
WHERE nomCamping = 'Les Flots Bleus'));
```

**R83 :** pour chaque bungalow, indiquer le nombre de locations qui ont eu lieu en juin 2017.

```
SELECT nomBungalow, COUNT(*) AS "nb locations"
FROM Bungalows b
JOIN Locations l ON l.idBungalow = b.idBungalow
WHERE dateDebut <= '30/06/2017'
AND dateFin >= '01/06/2017'
GROUP BY b.idBungalow, nomBungalow
UNION
SELECT nomBungalow, 0 AS "nb locations"
FROM Bungalows b
WHERE NOT EXISTS (SELECT *
FROM Locations l
WHERE dateDebut <= '30/06/2017'
AND dateFin >= '01/06/2017'
AND l.idBungalow = b.idBungalow)
ORDER BY "nb locations" DESC;
```

Ou

```
SELECT nomBungalow, COUNT(l.idLocation) AS "nb locations"
FROM Bungalows b
LEFT OUTER JOIN Locations l ON l.idBungalow = b.idBungalow
AND dateDebut <= '30/06/2017'
AND dateFin >= '01/06/2017'
GROUP BY b.idBungalow, nomBungalow
ORDER BY "nb locations" DESC;
```

**R84 :** les villes dans lesquelles il y a plusieurs campings.

```
SELECT villeCamping
FROM Campings
GROUP BY villeCamping
HAVING COUNT(*) >1;
```

**R85 :** le nom des clients qui ont réalisé le même nombre de locations que le client Agathe Zeblouse (il n'y a qu'un seul client qui se nomme Agathe Zeblouse).

```
SELECT nomClient
FROM Clients c
JOIN Locations l ON c.idClient = l.idClient
GROUP BY c.idClient, nomClient
HAVING COUNT(*) = (SELECT COUNT(*)
FROM Locations l
JOIN Clients c ON l.idClient = c.idClient
WHERE nomClient = 'Zeblouse'
AND prenomClient = 'Agathe');
```

**R86 :** le nom des services qui sont proposés dans moins de cinq bungalows.

```
SELECT nomService
FROM Services s
LEFT OUTER JOIN Proposer p ON p.idService = s.idService
GROUP BY s.idService, nomService
HAVING COUNT(idBungalow) < 5;
```

**R87 :** le nom du camping qui a le plus d'employés.

```
SELECT nomCamping
FROM Campings c
JOIN Employes e ON e.idCamping = c.idCamping
GROUP BY c.idCamping, nomCamping
HAVING COUNT(*) = (SELECT MAX(COUNT(*))
FROM Employes
GROUP BY idCamping);
```

**R88 :** les bungalows qui proposent des services de toutes les catégories.

```
SELECT nomBungalow
FROM Bungalows b
JOIN Proposer p ON b.idBungalow = p.idBungalow
JOIN Services s ON p.idService = s.idService
GROUP BY b.idBungalow, nomBungalow
HAVING COUNT(DISTINCT categorieService) = (SELECT COUNT(DISTINCT categorieService)
FROM Services);
```

Ou

```
SELECT nomBungalow
FROM Bungalows b
WHERE NOT EXISTS (SELECT categorieService
FROM Services
MINUS
SELECT categorieService
FROM Services s
JOIN Proposer p ON s.idService = p.idService
WHERE p.idBungalow = b.idBungalow);
```

**R89 :** le nom des bungalows qui proposent exactement les mêmes services que le bungalow 'La Suite Régaliennne' – DIVISION EXACTE

```
SELECT nomBungalow
FROM Bungalows b1
WHERE NOT EXISTS (SELECT idService
FROM Bungalows b
JOIN Proposer p ON b.idBungalow = p.idBungalow
WHERE nomBungalow = 'La Suite Régaliennne'
MINUS
SELECT idService
FROM Proposer p
WHERE p.idBungalow = b1.idBungalow)
AND NOT EXISTS (SELECT idService
FROM Proposer p
WHERE p.idBungalow = b1.idBungalow
MINUS
SELECT idService
FROM Bungalows b
JOIN Proposer p ON b.idBungalow = p.idBungalow
WHERE nomBungalow = 'La Suite Régaliennne');
```