

Solutions des requêtes de la partie IV

Solution question 14 :

```
1 SELECT surface
2 FROM ville
3 WHERE nom = 'TOULOUSE';
```

Solution question 15 :

```
1 SELECT d.nom
2 FROM ville v
3 JOIN
4     departement d ON v.numdep = d.numdep
5 WHERE v.nom = 'BORDEAUX';
```

Solution question 16 :

```
1 SELECT max(surface)
2 FROM ville
3 WHERE numdep < 96;
```

Solution question 17 :

```
1 SELECT nom, surface
2 FROM ville
3 WHERE surface = (SELECT max(surface) FROM ville WHERE numdep < 96)
4 OR
5     surface = (SELECT min(surface) FROM ville WHERE numdep < 96);
```

Solution question 18 :

```
1 SELECT v.nom, d.nom
2 FROM ville v
3 JOIN
4     departement d ON v.numdep = d.numdep
5 WHERE d.numdep < 96 AND
6     v.surface = (SELECT min(surface) FROM ville WHERE numdep < 96);
```

Solution question 19 :

```
1 SELECT nom
2 FROM ville
3 WHERE nom IN ('BORDEAUX', 'LYON', 'PARIS', 'TOULOUSE')
4 ORDER BY surface DESC;
```

Solution question 20 :

```
1 SELECT numdep
2 FROM departement
3 WHERE nom = 'GUADELOUPE';
```

Solution question 21 :

```
1 SELECT sum(surface)
2 FROM ville v
3 JOIN
4     departement d ON v.numdep = d.numdep
5 GROUP BY d.nom
6 HAVING d.nom = 'GUADELOUPE';
```

Solution question 22 :

```

1 SELECT v.nom
2 FROM ville v
3     JOIN
4     departement d ON v.numdep = d.numdep
5 WHERE d.nom = 'MARTINIQUE' AND
6        pop2010 = (SELECT max(pop2010)
7                   FROM ville v
8                   JOIN
9                   departement d ON v.numdep = d.numdep
10                  WHERE d.nom = 'MARTINIQUE')

```

Solution question 23 :

```

1 SELECT v.nom
2 FROM ville v
3     JOIN
4     departement d ON v.numdep = d.numdep
5 WHERE d.nom = 'MARTINIQUE' AND
6        pop2010 = (SELECT max(pop2010)
7                   FROM ville v
8                   JOIN
9                   departement d ON v.numdep = d.numdep
10                  WHERE d.nom = 'MARTINIQUE' AND
11                 pop2010 < (SELECT max(pop2010)
12                             FROM ville v
13                             JOIN
14                             departement d ON v.numdep = d.numdep
15                             WHERE d.nom = 'MARTINIQUE'));

```

Solution question 24 :

```

1 SELECT DISTINCT (d.nom)
2 FROM departement d
3     JOIN
4     ville v ON d.numdep = v.numdep
5 WHERE v.nom LIKE '%CLERMONT%';

```

Solution question 25 :

```

1 SELECT nom
2 FROM ville
3 WHERE pop2010 >= 8000 AND zmin >= 1000 AND numdep < 96;

```

Solution question 26 :

```

1 SELECT nom, pop2010, zmax
2 FROM ville
3 WHERE codepostal = 74400;

```

Solution question 27 :

```

1 SELECT min(zmin), max(zmax)
2 FROM ville v
3     JOIN
4     departement d ON d.numdep = v.numdep
5 WHERE d.nom = 'HAUTE-SAVOIE';

```

Solution question 28 :

```

1 SELECT count( * )
2 FROM ville
3 WHERE numdep = 95 AND zmin >= 100;

```

Solution question 29 :

```

1 SELECT count( * )
2 FROM ville v
3     JOIN
4     departement d ON v.numdep = d.numdep
5 WHERE d.nom = 'VAL-D''OISE' AND zmin >= 100 ;

```

Solution question 30 :

```

1 SELECT d.nom
2 FROM ville v
3     JOIN
4     departement d ON d.numdep = v.numdep
5 WHERE d.numdep < 96
6 GROUP BY d.numdep
7 HAVING avg(zmin) >= 500 ;

```

Solution question 31 :

```

1 SELECT d.nom
2 FROM ville v
3     JOIN
4     departement d ON d.numdep = v.numdep
5 WHERE d.numdep < 96
6 GROUP BY d.numdep
7 HAVING min(zmin) >= 200 ;

```

Solution question 32 :

```

1 SELECT count( * )
2 FROM (SELECT d.nom
3         FROM ville v
4         JOIN
5         departement d ON d.numdep = v.numdep
6         WHERE d.numdep <= 95
7         GROUP BY d.numdep
8         HAVING min(zmin) >= 200) ;

```

Solution question 33 :

```

1 SELECT max(zmax)
2 FROM ville v
3     JOIN
4     departement d ON v.numdep = d.numdep
5     JOIN
6     region r ON d.numreg = r.numreg
7 WHERE r.nom = 'CORSE' ;

```

Solution question 34 :

```

1 SELECT v.zmax, v.znom
2 FROM ville v
3     JOIN
4     departement d ON v.numdep = d.numdep
5     JOIN
6     region r ON d.numreg = r.numreg
7 WHERE r.nom = 'CORSE' AND
8     zmax = (SELECT max(zmax)
9             FROM ville v
10            JOIN
11            departement d ON v.numdep = d.numdep
12            JOIN
13            region r ON d.numreg = r.numreg
14            WHERE r.nom = 'CORSE') ;

```

Remarque : La requête suivante fournit le bon résultat mais elle aurait pu renvoyer le nom d'une ville ne se trouvant pas en Corse, si une telle ville d'altitude max = 2706 m existait.

```

1 SELECT nom, zmax
2 FROM ville
3 WHERE r.nom = 'CORSE' AND
4        zmax = (SELECT max(zmax)
5                FROM ville v
6                JOIN
7                  departement d ON v.numdep = d.numdep
8                JOIN
9                  region r ON d.numreg = r.numreg
10               WHERE r.nom = 'CORSE');

```

Solution question 35 :

```

1 SELECT d.nom,
2        count( * ) AS nb1000
3 FROM ville v
4 JOIN
5   departement d ON d.numdep = v.numdep
6 WHERE d.numdep <= 95 AND
7        v.zmin >= 1000
8 GROUP BY d.numdep
9 ORDER BY nb1000 DESC ;

```

Solution question 36 :

```

1 SELECT inter1.nomdep,
2        100 * inter1.nb1000 / inter2.nbtotale AS pourcentage1000
3 FROM (
4        SELECT d.nom AS nomdep,
5               count( * ) AS nb1000
6        FROM ville v
7        JOIN
8          departement d ON d.numdep = v.numdep
9        WHERE d.numdep <= 95 AND
10              v.zmin >= 1000
11        GROUP BY d.numdep
12 )
13 AS inter1
14 JOIN
15 (
16        SELECT d.nom,
17               count( * ) AS nbtotale
18        FROM ville v
19        JOIN
20          departement d ON d.numdep = v.numdep
21        WHERE d.numdep <= 95
22        GROUP BY d.numdep
23 )
24 AS inter2
25 GROUP BY inter1.nomdep
26 ORDER BY pourcentage1000 DESC ;

```