

Correction TD9

1. `SELECT * FROM communes WHERE numdepartement=33`
2. `SELECT c.nom FROM communes AS c JOIN departements AS d ON c.numdepartement=d.numdepartement
WHERE d.nom='Gironde'`
3. `SELECT c.nom FROM communes AS c JOIN departements AS d JOIN regions AS r
ON c.numdepartement=d.numdepartement AND d.numregion=r.numregion WHERE r.nom='Aquitaine'`
4. `SELECT c.nom,d.nom,zmax FROM communes AS c JOIN departements AS d JOIN regions AS r
ON c.numdepartement=d.numdepartement AND d.numregion=r.numregion
WHERE r.nom='Franche Comte' ORDER BY zmax`
5. `SELECT d.nom,COUNT(*) FROM communes AS c JOIN departements AS d ON
c.numdepartement=d.numdepartement GROUP BY d.numdepartement`
6. `SELECT nom FROM communes WHERE population1999>population2010`
7. `SELECT d.numdepartement,COUNT(*) FROM communes AS c JOIN departements AS d
ON c.numdepartement=d.numdepartement WHERE population1999>population2010
GROUP BY d.numdepartement`

Le département 75 ne contient qu'une seule commune dont la population a augmenté donc la condition d'exclusion
WHERE population1999>population2010 supprime toutes les données de ce département.
8. `SELECT d.nom,SUM(population2010) AS S FROM communes AS c JOIN departements AS d
ON c.numdepartement=d.numdepartement GROUP BY d.numdepartement ORDER BY S DESC`
9. `SELECT c.nom FROM communes AS c JOIN departements AS d ON c.numdepartement=d.numdepartement
WHERE d.nom='Mayotte' AND population2010=(SELECT MAX(population2010) FROM communes AS c
JOIN departements AS d ON c.numdepartement=d.numdepartement WHERE d.nom='Mayotte')`
10. `SELECT nom,population2010/surface AS D FROM communes
WHERE population2010/surface >= (SELECT population2010/surface from communes
WHERE nom='Bordeaux') ORDER BY D DESC`
11. `SELECT DISTINCT c1.nom,c1.numdepartement FROM communes AS c1 JOIN communes AS c2
ON c1.nom=c2.nom WHERE c1.Id<>c2.Id`
12. `SELECT r.nom,COUNT(*) FROM communes AS c1 JOIN communes AS c2 JOIN departements AS d1
JOIN departements AS d2 JOIN regions AS r ON c1.nom=c2.nom
AND c1.numdepartement=d1.numdepartement AND c2.numdepartement=d2.numdepartement
AND d1.numregion=r.numregion WHERE c1.Id<>c2.Id AND d1.numregion=d2.numregion
GROUP by r.numregion`