

Informatique en CPGE (2017-2018)
Corrigé bases de données relationnelles
Requêtes en langage SQL

1. SELECT * FROM country WHERE name = 'France' ;
2. SELECT DISTINCT continent FROM country ;
3. SELECT Name FROM city WHERE Population > 6000000 ORDER BY Name ;
4. SELECT continent, name FROM country WHERE population < 1000000
AND lifeexpectancy between 50 and 60 ;
5. SELECT continent, COUNT(*) FROM country GROUP BY continent ;
6. SELECT continent, COUNT(*) FROM country WHERE population > 30000000
GROUP BY continent ;
7. SELECT city.name FROM country, city WHERE code=countrycode AND continent='Oceania' ;
8. SELECT Name FROM country WHERE SurfaceArea=(SELECT Min(SurfaceArea)
FROM country) ;
9. SELECT Name FROM country WHERE Continent='Asia' AND SurfaceArea=
(SELECT Min(SurfaceArea) FROM country WHERE Continent='Asia') ;
10. SELECT Continent, MAX(Population) FROM country GROUP BY Continent ;
11. SELECT Continent, Name, Population FROM country WHERE (Continent,Population)
IN (SELECT Continent, MAX(Population) FROM country GROUP BY Continent
HAVING MAX(Population)>0) ;
ou :
SELECT Continent, Name, Population FROM country JOIN (SELECT Continent AS C,
MAX(Population) AS Pmax FROM country GROUP BY Continent HAVING MAX(Population)>0)
AS tab
ON Continent=C WHERE Population=Pmax ;
12. SELECT Continent, Name, Population FROM country WHERE (Continent,Population)
IN (SELECT Continent, MAX(Population) FROM country GROUP BY Continent
HAVING MAX(Population)>0) OR (Continent, Population) IN (SELECT Continent, MIN(Population)
FROM country WHERE Population > 0 GROUP BY Continent) ;
ou
SELECT Continent, Name, Population FROM country WHERE (Continent,Population)
IN (SELECT Continent, MAX(Population) AS p FROM country GROUP BY Continent
HAVING MAX(Population)>0 UNION SELECT Continent, MIN(Population) As p
FROM country WHERE Population > 0 GROUP BY Continent)
ou
SELECT Continent, Name, Population FROM country
JOIN (SELECT Continent AS C, MAX(Population) AS Pmax,MIN(Population) AS Pmin
FROM country GROUP BY Continent HAVING MAX(Population)>0) AS tab ON Continent=C
WHERE Population=Pmax OR Population=Pmin
13. SELECT Name, LifeExpectancy, GNP*1000000/Population AS 'PNB par habitant'
FROM country ORDER BY LifeExpectancy DESC ;
14. SELECT country.Name, city.Name FROM country JOIN city ON Capital=ID ;

15. SELECT COUNT(*) AS 'Pays anglophones' FROM countrylanguage
WHERE Language='English' ;
16. SELECT Name, Population/SurfaceArea AS 'Densité' FROM country
ORDER BY Densité DESC ;
17. SELECT Name, Population/SurfaceArea AS 'Densité' FROM country
WHERE Continent ='Europe' ORDER BY Densité DESC ;
18. SELECT Count(*) FROM countrylanguage WHERE Language ='French' AND IsOfficial='T' ;
19. SELECT Name FROM countrylanguage JOIN country ON CountryCode=Code
WHERE Language ='French' AND IsOfficial='T' ;
20. SELECT SUM(Percentage*Population) AS 'population parlant français en Afrique'
FROM country JOIN countrylanguage ON CountryCode=Code
WHERE Language ='French' AND Continent ='Africa' ;
21. SELECT city.Name, city.Population FROM country JOIN city ON Code = CountryCode
WHERE country.Name = 'Brazil' AND city.Population>1000000
ORDER BY Population DESC ;
22. SELECT Language, Percentage FROM countrylanguage JOIN country ON CountryCode=Code
WHERE country.Name='Brazil' ;
23. SELECT city.Name FROM country JOIN city ON Capital=ID WHERE country.Name='Brazil' ;