1. Given the **CITY** and **COUNTRY** tables, query the names of all the continents (COUNTRY.Continent) and their respective average city populations (CITY.Population) rounded down to the nearest integer.

Solution - select country.continent,round(avg(city.population)-0.5) population from city inner join country on city.countrycode=country.code group by country.continent;

1. Graphical user interface, text, application

   Description automatically generated

2) Query the **NAME** field for all American cities in the **CITY** table with populations larger than 120000. The CountryCode for America is USA.

Solution - select name from city where population>120000 and countrycode='USA';

Graphical user interface, text, application

Description automatically generated

3) Given the **CITY** and **COUNTRY** tables, query the names of all cities where the CONTINENT is 'Africa'.

Solution - select city.name from city join country on city.countrycode=country.code where continent='Africa';

Graphical user interface, text, application

Description automatically generated

4) Solution - select if(GRADE < 8, NULL, NAME), GRADE, MARKS

from STUDENTS JOIN GRADES

where MARKS BETWEEN MIN\_MARK AND MAX\_MARK

ORDER BY GRADE DESC, NAME;A screenshot of a computer

Description automatically generated

5) solution - select h.hacker\_id,h.name from hackers h,challenges c ,difficulty d,submissions s

where h.hacker\_id=s.hacker\_id

and c.challenge\_id=s.challenge\_id

and c.difficulty\_level=d.difficulty\_level

and s.score=d.score

group by h.hacker\_id,h.name having count(h.hacker\_id)>1

order by count(c.challenge\_id) desc,h.hacker\_idGraphical user interface, application

Description automatically generated

6)