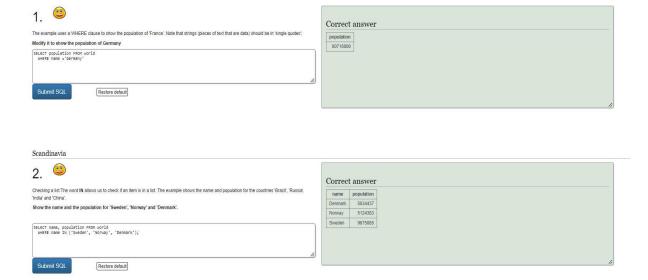
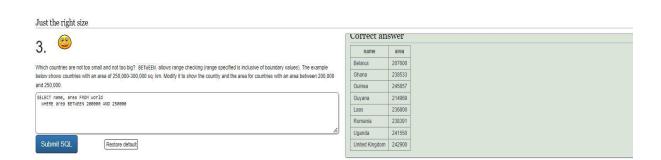
#Task:SQL Assignment

#Referral id:DIRSS3134

#Full name:Gauri Vijay Kolte

SELECT BASIC





1. Select the code which produces this table

name	population
Bahrain	1234571
Swaziland	1220000
Timor-Leste	1066409

FROM world SELECT name, population BETWEEN 1000000 AND 1250000

FROM name, population
WHERE population BETWEEN 1000000 AND 1250000
SELECT world

SELECT name, population
FROM world
WHERE population BETWEEN 1000000 AND 1250000

SELECT population BETWEEN 1000000 AND 1250000 FROM world

WHERE population BETWEEN 1000000 AND 1250000 SELECT name, population FROM world

2. Pick the result you would obtain from this code:

SELECT name, population FROM world WHERE name LIKE "AL%"

Table-A Albania Algeria

Table-B %bania 3200000 %geria 32900000

Table-C

Table-D Albania 3200000

Table-E
Albania 3200000
Algeria 32900000

3. Select the code which shows the countries that end in A or L

SELECT name FROM world WHERE name LIKE 'a%' AND name LIKE '1%'

SELECT name FROM world
WHERE name LIKE 'a%' OR name LIKE '1%'

SELECT name FROM world
WHERE name LIKE '%a' AND name LIKE '%1'

SELECT name FROM world WHERE name LIKE '%a' OR '1%'

SELECT name FROM world
WHERE name LIKE '%a' OR name LIKE '%1'

4. Pick the result from the query

SELECT name,length(name)
FROM world

PRUM I	IOLTO		
WHERE	length(name)=5	and	region='Europe

name	length(name)
Benin	5
Lybia	5
Egypt	5

name	length(name)
Italy	5
Egypt	5
Spain	5

name	length(name)	
Italy	5	
Malta	5	
Spain	5	

name	length(name)
Italy	5
France	6
Spain	5

name	length(name)
Sweden	6
Norway	6
Poland	6

5. Here are the first few rows of the world table:

name	region	area	population	gdp
Afghanistan	South Asia	652225	26000000	
Albania	Europe	28728	3200000	6656000000
Algeria	Middle East	2400000	32900000	75012000000
Andorra	Europe	468	64000	

Pick the result you would obtain from this code:

SELECT name, area*2 FROM world WHERE population = 64000

Andorra 234

Andorra 468

Andorra 936

Andorra 4680

Andorra 936 Albania 57456 6. Select the code that would show the countries with an area larger than 50000 and a population smaller than 10000000

```
SELECT name, area, population
FROM world
WHERE area < 50000 AND population < 10000000
      SELECT name, area, population
FROM world
WHERE area < 50000 AND population > 10000000
      SELECT name, area, population
FROM world
WHERE area > 50000 AND population < 10000000
      SELECT name, area, population
FROM world
WHERE area > 50000 AND population > 10000000
     SELECT name, area, population
FROM world
WHERE area = 50000 AND population = 10000000
7. Select the code that shows the population density of China, Australia, Nigeria and France
     SELECT name, area/population FROM world WHERE name IN ('China', 'Nigeria', 'France', 'Australia')
      SELECT name, area/population
FROM world WHERE name LIKE ('China', 'Nigeria', 'France', 'Australia')
     SELECT name, population/area
FROM world
WHERE name IN ('China', 'Nigeria', 'France', 'Australia')
      SELECT name, population/area
FROM world
WHERE name LIKE ('China', 'Nigeria', 'France', 'Australia')
     SELECT name, population
FROM world
WHERE name IN ('China', 'Nigeria', 'France', 'Australia')
```

Your score is: 7 out of 7

SELECT from world



Read the notes about this table. Observe the result of running this SQL command to show the name, continent and population of all countries.

SELECT name, continent, population FROM world

Restore default

name	continent	population
Afghanistan	Asia	25500100
Albania	Europe	2821977
Algeria	Africa	38700000
Andorra	Europe	76098
Angola	Africa	19183590
Antigua and Barbuda	Caribbean	86295
Argentina	South America	42669500

Large Countries

Submit SQL

2.



How to use WHERE to filter records. Show the name for the countries that have a population of at least 200 million. 200 million is 20000000, there are eight zeros.

SELECT name FROM world WHERE population > 200000000

Submit SQL

Restore default

3.

Give the $_{\mbox{\scriptsize name}}$ and the $\mbox{\scriptsize per capita GDP}$ for those countries with a $_{\mbox{\scriptsize population}}$ of at least 200 million.

HELP:How to calculate per capita GDP

select name,gdp/population from world where population>200000000

Submit SQL

Restore default

Correct answer

name		
Brazil		
China		
India		
Indonesia		
United States		

Correct answer

name	
Brazil	11115.264751422625
China	6121.710598592322
India	1504.793124478397
Indonesia	3482.020488188676
United States	51032.29454636844





Show the name and population in millions for the countries of the continent 'South America'. Divide the population by 1000000 to get population in millions.

SELECT name, population/1000000 FROM world WHERE continent='South America'

Submit SQL

Restore default

Correct answer

name	
Argentina	42.6695
Bolivia	10.027254
Brazil	202.794
Chile	17.773
Colombia	47.662
Ecuador	15.7742
Guvana	0.784894

France, Germany, Italy





Show the name and population for France, Germany, Italy

select name,population from world where name='France' or name='Italy' or name='Germany'

Submit SQL

Restore default



Show the countries which have a name that includes the word 'United'

select name from world where name like '%United%'

Submit SQL

Restore default

Correct answer

name	population
France	65906000
Germany	80716000
Italy	60782668

Correct answer

United Arab Emirates United Kingdom United States

Two ways to be big





Two ways to be big: A country is **big** if it has an area of more than 3 million sq km or it has a population of more than 250 million.

Show the countries that are big by area or big by population. Show name, population and area.

select name,population,area from world where area > 3000000 or population > 250000000

Correct answer

name	population	area
Australia	23545500	7692024
Brazil	202794000	8515767
Canada	35427524	9984670
China	1365370000	9596961
India	1246160000	3166414
Indonesia	252164800	1904569





Exclusive OR (XOR). Show the countries that are big by area (more than 3 million) or big by population (more than 250 million) but not both. Show name, population and area.

- Australia has a big area but a small population, it should be included.
- Indonesia has a big population but a small area, it should be included.
- China has a big population and big area, it should be excluded.
- United Kingdom has a small population and a small area, it should be **excluded**.

select name,population,area from world where (area <3000000 and population > 250000000) or (area > 3000000 and population < 250000000)

Correct answer

name	population	area
Australia	23545500	7692024
Brazil	202794000	8515767
Canada	35427524	9984670
Indonesia	252164800	1904569
Russia	146000000	17125242

Rounding





Show the name and population in millions and the GDP in billions for the countries of the continent 'South America'. Use the ROUND function to show the values to two decimal

For South America show population in millions and GDP in billions both to 2 decimal places.

Millions and billions

select name,round(population/1000000,2),round(gdp/1000000000,2) from world where continent='South America'

name		
Argentina	42.67	477.03
Bolivia	10.03	27.04
Brazil	202.79	2254.11
Chile	17.77	268.31
Colombia	47.66	369.81
Ecuador	15.77	87.5
Guyana	0.78	2.85
Paraguay	6.78	25.94

Correct answer

Submit SQL

Restore default

Show the name and per-capita GDP for those countries with a GDP of at least one trillion (1000000000000; that is 12 zeros). Round this value to the nearest 1000

Show per-capita GDP for the trillion dollar countries to the nearest \$1000.

Submit SQL

Restore default

Correct a	nswer
name	
Australia	66000
Brazil	11000
Canada	45000
China	6000
France	40000
Germany	42000
India	2000

Name and capital have the same length

11.

Greece has capital Athens.

Each of the strings 'Greece', and 'Athens' has 6 characters.

Show the name and capital where the name and the capital have the same number of

You can use the LENGTH function to find the number of characters in a string

For Microsoft SQL Server the function LENGTH is LEN

SELECT name,capital FROM world WHERE len(name)=len(capital);

Result:

name	capital
Algeria	Algiers
Angola	Luanda
Armenia	Yerevan
Botswana	Gaborone
Canada	Ottowa
Djibouti	Djibouti
Eavpt	Cairo

Matching name and capital





The capital of Sweden is Stockholm. Both words start with the letter 'S'.

Show the name and the capital where the first letters of each match. Don't include countries where the name and the capital are the same word.

- You can use the function LEFT to isolate the first character.
- You can use <> as the NOT EQUALS operator.

SELECT name, capital FROM world where left(name,1)=left(capital,1) and name <>capital;

Submit SQL

Restore default

Correct answer

name	capital
Algeria	Algiers
Andorra	Andorra la Vella
Barbados	Bridgetown
Belize	Belmopan
Brazil	Brasília
Brunei	Bandar Seri Begawan
Burundi	Bujumbura

All the vowels



```
Equatorial Guinea and Dominican Republic have all of the vowels (a e i o u) in the name.

They don't count because they have more than one word in the name.

Find the country that has all the vowels and no spaces in its name.

You can use the phrase name NoT LIKE '%a%' to exclude characters from your results.

The query shown misses countries like Bahamas and Belarus because they contain at least one 'a'

SELECT name

SELECT name

SELECT name

LIKE '%a%'
and name LIKE '%a%'
and name LIKE '%a%'
and name LIKE '%a%'
and name LIKE '%a%'
and name LIKE '%a%'
and name NOT LIKE '% %'
and name NOT LIKE '% %'
        Submit SQL
                                                                                                                                                         Restore default
```

Correct answer name Mozambique

Quiz

```
SELECT name
FROM world
WHERE name
BEGIN with U
SELECT name
FROM world
WHERE name LIKE '%U'
SELECT name
FROM world
WHERE name LIKE '%u%'
SELECT name
FROM world
WHERE name LIKE U
SELECT name
FROM world
WHERE name LIKE 'U%'
```

2. Select the code which shows just the population of United Kingdom? SELECT population FROM 'United Kingdom' SELECT name FROM world WHERE population = 'United Kingdom' SELECT FROM world WHERE population IN 'United Kingdom' SELECT population FROM world WHERE name = 'United Kingdom' SELECT population FROM world WHERE 'United Kingdom' IN name 3. Select the answer which shows the problem with this SQL code - the intended result should be the continent of France: SELECT continent FROM world WHERE 'name' = 'France' continent should be 'continent' 'name' should be name 'France' should be "France" 'France' should be France = should be IN 4. Select the result that would be obtained from the following code: SELECT name, population / 10 FROM world WHERE population < 10000 Andorra 6400 Nauru 990 Andorra 64000 Nauru 9900 Nauru 99 Nauru 9900 5. Select the code which would reveal the name and population of countries in Europe and Asia SELECT name FROM world WHERE continent IN ('Europe', 'Asia') SELECT name, population FROM world WHERE continent IN ('Europe', 'Asia') SELECT name, population FROM world WHERE name IN (Europe Asia) SELECT name, population FROM world WHERE name IS ('Europe', 'Asia') SELECT name, population FROM world WHERE continent = ('Europe', 'Asia')

6. Select the code which would give two rows

SELECT name FROM world

MHERE name = "Cuba"

SELECT name FROM world

MHERE name = "Togo"

SELECT name FROM world

MHERE name = Togo"

SELECT name FROM world

MHERE name ETHER ("Cuba", 'Togo")

2 - Control of the Co

7. Select the result that would be obtained from this code:

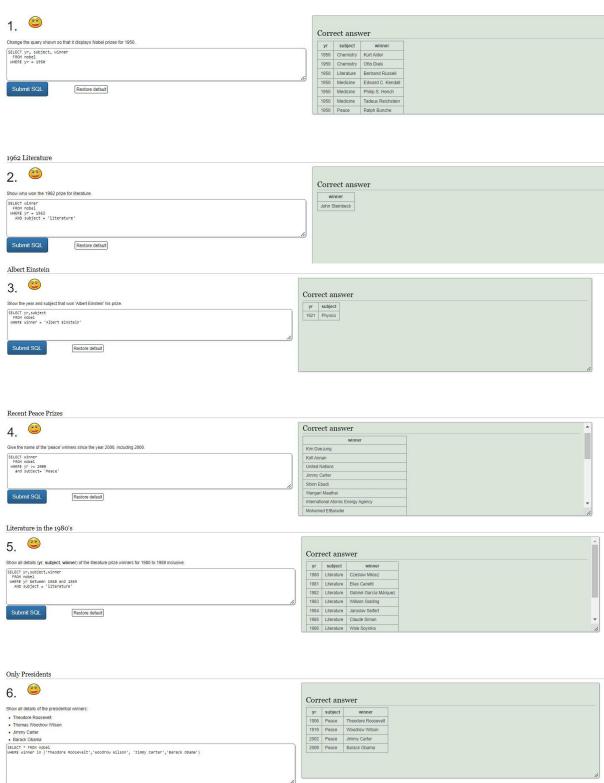
SELECT name FROM world WHERE continent = 'South America' AND population > 40000000

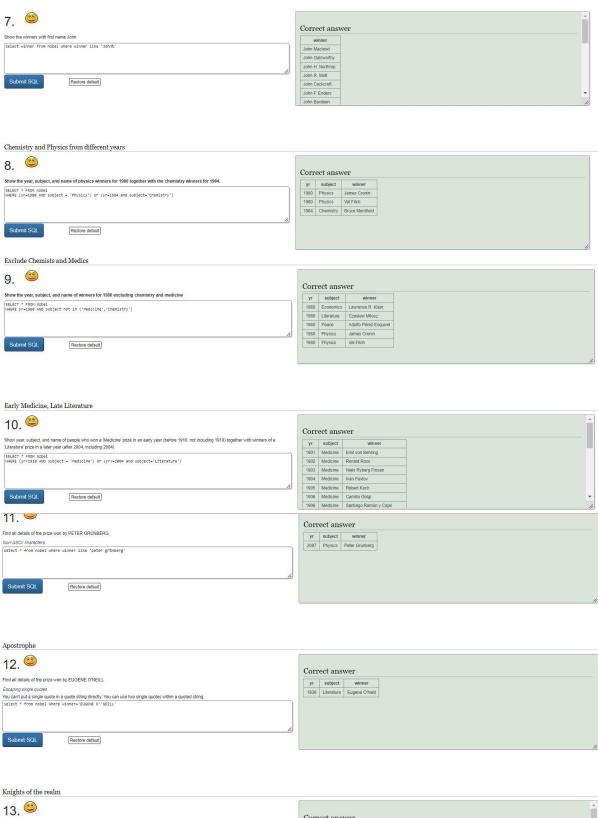


Score the test

SELECT from nobel

Submit SQL Restore default





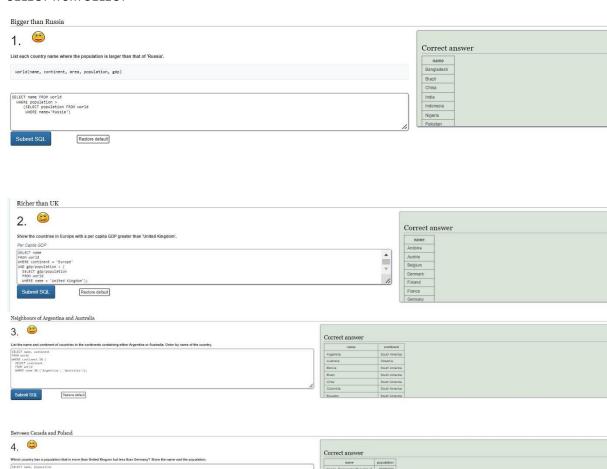


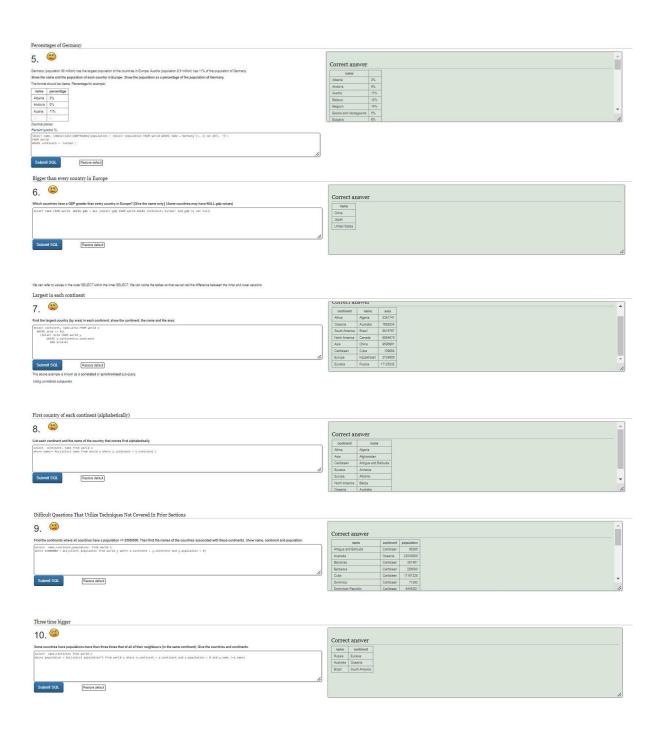
```
SELECT name FROM mobel switcher LIKE "Not." AND winner LIKE "Not."
    SELECT name FROM mobel MACRE winner LDKE 'nk' MAD winner LDKE 'nk'
    SELECT name FROM mobel 
MHERE winner LINE 'CE' MAD winner LINE 'No.'
     SELECT winner FROM subel
MHERE winner LINE "NC" AND winner LINE "NC"
     SELECT winner FROM nobel
SELECT winner FROM nobel
    SELECT COUNT(subject) FROM nobel
swelle subject = 'Chamilton'
AND DETWIED 1950 and 1900
     SELECT COUNT(subject) FROM robel
SMERE subject - 'Charletry'
AND yr DETWEEN (1950, 1900)
      SELECT COUNT(subject) FROM notel
WHERE subject - 'Chemistry'
AND ye BETWEEN 1918 and 1908
    SELECT subject FROM model
MHCRC subject - 'Chemistry'
AND yr DCTMEEN 1010 and 1000
     SELECT subject FROM mobel
MMERE subject = "Chemistry"
AND yr BETHEEN (1850, 1960)
      Pick the code that shows the amount of years where no Medicine awards were given
      SELECT COUNT(DESTINCT yr) FROM robel MARRE subject o 'Medicine')
     SELECT DISTINCT yr FROM nobel WHERE subject LDEE 'Posticine')
     SELECT COUNT(DISTINCT yr) FROM rubel where subject NOT LINE 'Medicine')
     SELECT COUNT(yr) FROM mobel
WHERE yr NOT IN (SELECT DESTINCT yr FROM mobel WHERE subject = "Medicine")
  Medicine John Eccles
Medicine Frank Macfarlane Burnet
Medicine Frank Madfarlane Burnet
Chemistry Sir Cryst Herahalwood
Medicine Sir John Bodes
Medicine Sir Frank Madfarlane Burnet
Medicine John Bodiss
Medicine Frank Madfarlane Burnet
Chemistry William Fibby
Sir John Eccles
Sir Frank Macfarlane Burnet
    SELECT yr FROM mobel
MHERE yr NOT EN(SELECT yr
FROM mobel
MHERE vadject EN ('Chemistry', 'Physics'))
     SELECT by FROM subject
MHORE by MOT IN (SELECT by
MHORE by MOT IN (SELECT by
MHORE subject IN ('Clemistry', 'Physics'))
```

Section of the Control of the Contro

SELECT from SELECT

Submit SQL Restore default





Section (and the provided provided from the company of approximation of the company of approximation (and the company of the c

4. Select the result that would be obtained from the following code: SELECT name FROM bbc
WHERE population >
(SELECT population
FROM bbc
WHERE name='United Kingdom') AND region IN
(SELECT region
FROM bbc
WHERE name = 'United Kingdom') Table-A Andorra Albania Austria Bulgaria Table-B France Europe Germany Europe Russia Europe Turkey Europe Table-C France Germany Andorra Albania Table-D France Germany Russia Turkey Table-E France Germany Turkey United States of USA Canada SELECT name FROM bbc MIRRE gdp + (SELECT MIX(gdp) FROM box MACRE region + "Africa") SELECT name FROM NO. MERCET MON(gop) FROM No. WHERE region = "AFRICA") SELECT name FROM box:
MHERE gop + ALL (SELECT gop FROM box WHERE region + 'Africa') SELECT name FROM bbs: WHERE region \sim 'Africa' AND grip-HALL SCLECT name FROM the: MACRE population = (SELECT population FROM bbc WHERE name="Deswork") AMD population > (SELECT population FROM bbc WHERE name="Toucia") SCLECT name FROM bbc MHCRE population ((SCLECT population FROM bbc MHCRE name="Riskle") AMD population > (SCLECT population FROM bbc WHCRE name="Dessure")

SCLECT name FROM too:
MMCRE population - (SELECT population FROM too MMCRE name-'Russia')
MMD population : (SELECT population FROM too MMCRE name-'Dentart')

SCIECT name TROM No. MRERE population > (SELECT population FROM No. MACRE name='Ruisia') ARD population > (SELECT population FROM No. MACRE name='Doman's') 7. >Select the result that would be obtained from the following code:

```
SELECT name FROM bbc
WHERE population > ALL
(SELECT MAX(population)
FROM bbc
WHERE region = 'Europe')
AND region = 'South Asia'
```

Table-A

Afghanistan	
Bhutan	Ĩ
Nepal	
Sri Lanka	Ī
The Maldives	

Table-B

	Bangladesh
	India
1	Pakistan

Table-C

China

Table-D

Brazil
Bangladesh
China
India

Table-E

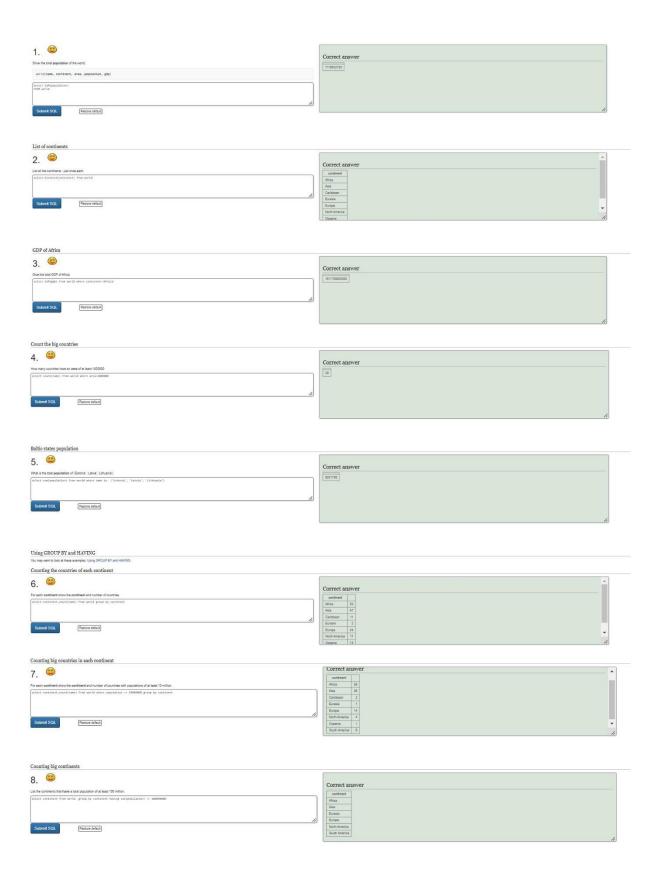
France	
German	y

Trukey

Score the test

Your score is: 7 out of 7

SUM and COUNT



| Section Control Cont

4. Select the result that would be obtained from the following code:

```
SELECT name FROM bbc
WHERE population >
    (SELECT population
        FROM bbc
WHERE name='United Kingdom')

AND region IN
    (SELECT region
        FROM bbc
WHERE name = 'United Kingdom')
```

Table-A

Andorra Albania

Austria

Bulgaria

Table-B

France	Europe
Germany	Europe
Russia	Europe
Turkey	Europe

Table-C

France Germany Andorra Albania

Table-D France Germany Russia Turkey

Table-E

France
Germany
Russia
Turkey
Brazil
United States of USA
Canada

```
SELECT name FROM bbc
WHERE gdp > ALL (SELECT MAK(gdp) FROM bbc WHERE region = "Africa" AND gdp=0)
SELECT name FROM bbc weine gdp > ALL (SELECT MIN(gdp) FROM bbc weine region = 'Africa')
SELECT name FROM bbc
wheme gdp > ALL (SELECT gdp FROM bbc wheme region = 'Africa')
SELECT mame FROM bbc
MHERE population < (SELECT population FROM bbc MHERE name-"Denmark")
AND population > (SELECT population FROM bbc MHERE name-"Bustia")
 SELECT name FROM bbc
WHERE population ( (SELECT population FROM bbc WHERE name='Mussia')
AND population > (SELECT population FROM bbc WHERE name='Denmark')
SELECT name FROM bbc |
MHRHE population = (SELECT population FROM bbc MHRHE name="Muscia")
AND population > (SELECT population FROM bbc MHRHE name="Domnark")
SELECT name FROM bbc | SELECT population FROM bbc MMERE name="Muscia") | AND population > (SELECT population FROM bbc MMERE name="Dentarm")
 7. >Select the result that would be obtained from the following code:
     SELECT name FROM bbc
       WHERE population > ALL
(SELECT MAX(population)
FROM bbc
          WHERE region = 'Europe')
AND region = 'South Asia'
        Table-A
    Afghanistan
    Bhutan
    Nepal
    Sri Lanka
    The Maldives
     Bangladesh
    Pakistan
   Table-C
    China
    India
       Table-D
    Brazil
    Bangladesh
    China
    India
      Table-E
    France
    Germany
    Russia
     Trukey
      Score the test
      Your score is: 7 out of 7
```