Feedback — Module 2 Technical problem set   Help

You submitted this quiz on **Mon 6 Oct 2014 2:40 PM PDT**. You got a score of **10.00** out of **12.00**.

The following questions will use the following three tables:

Table 1. COUNTRY

Name	Cont	Pop *(Millions)	GDP (Billions)	Life-Exp
Canada	North America	30.1	658.0	77.08
Mexico	North America	107.5	694.3	69.36
Brazil	South America	183.3	1004.0	65.60
Cuba	North America	11.7	16.9	79.95
USA	North America	270.0	8003.0	75.75
Argentina	South America	36.3	348.2	70.75

Table 2. CITY

Name	Country	Pop *(Millions)	Capital
Havana	Cuba	2.1	Y
Washington, D.C.	USA	3.2	Y
Brasilia	Brazil	1.5	Y
Ottawa	Canada	0.8	Y
Mexico City	Mexico	14.1	Y
Buenos Aires	Argentina	10.75	Y

Table 3. COUNTRY_SPATIAL

Name	Cont	Pop *(Millions)	GDP (Billions)	Life-Exp	Shape
Canada	North America	30.1	658.0	77.08	Polygonid-1
Mexico	North America	107.5	694.3	69.36	Polygonid-2
Brazil	South America	183.3	1004.0	65.60	Polygonid-3

Cuba	North America	11.7	16.9	79.95	Polygonid-4
USA	North America	270.0	8003.0	75.75	Polygonid-5
Argentina	South America	36.3	348.2	70.75	Polygonid-6

Question 1

How many rows and columns will be in the result of the following SQL query?

> SELECT Co1.GDP
>
> FROM Country Co1
>
> WHERE Co1.Name = 'Mexico'

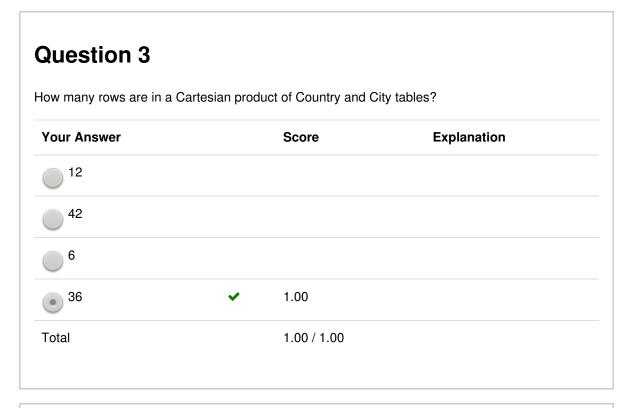| Your Answer		Score	Explanation
⦿ 1 row, 5 columns	✖	0.00	
◯ 1 row, 1 column			
◯ 6 rows, 5 columns			
◯ 6 rows, 1 column			
Total		0.00 / 1.00	

Question 2

What will be the result of the following SQL query?

> SELECT MAX(Pop)
>
> FROM COUNTRY

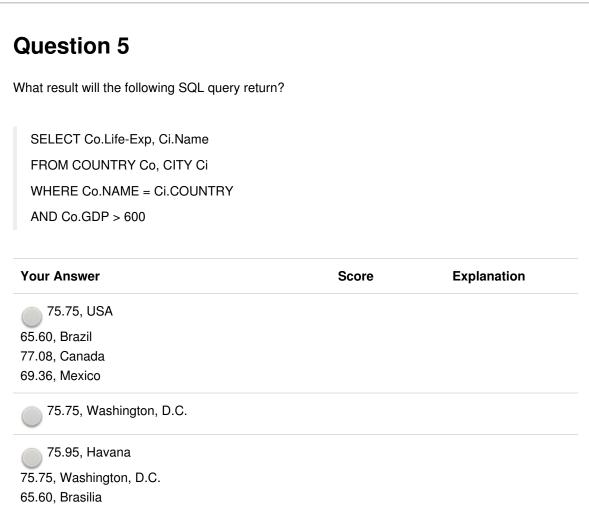| Your Answer	Score	Explanation

○ USA, North America, 270.0, 8003.0, 75.75

Brazil, South America, 183.3, 1004.0, 65.60

◉ 270.0   ✔   1.00

○ USA, 270.0

○ USA, North America, 270.0, 8003.0, 75.75

Total   1.00 / 1.00

Question 3

How many rows are in a Cartesian product of Country and City tables?

Your Answer	Score	Explanation
○ 12		
○ 42		
○ 6		
◉ 36	✔ 1.00	
Total	1.00 / 1.00	

Question 4

How many rows will the following query return?

SELECT Co.Name

FROM COUNTRY Co

WHERE Co.Pop > (SELECT Co1.Pop

FROM Country Co1

WHERE Co1.Name = 'Mexico')

Your Answer		Score	Explanation
◉ 2	✔	1.00	
◯ 3			
◯ 1			
◯ 0			
Total		1.00 / 1.00	

Question 5

What result will the following SQL query return?

SELECT Co.Life-Exp, Ci.Name

FROM COUNTRY Co, CITY Ci

WHERE Co.NAME = Ci.COUNTRY

AND Co.GDP > 600

Your Answer	Score	Explanation
◯ 75.75, USA 65.60, Brazil 77.08, Canada 69.36, Mexico		
◯ 75.75, Washington, D.C.		
◯ 75.95, Havana 75.75, Washington, D.C. 65.60, Brasilia		

77.08, Ottawa
69.36, Mexico City
70.75, Buenos Aires

⊙ 75.75, Washington, D.C.	✔	1.00

65.60, Brasilia
77.08, Ottawa
69.36, Mexico City

Total		1.00 / 1.00

Question 6

How many rows and columns will be in the result of the following SQL query?

> SELECT Co.Pop, Co.GDP, Ci.Pop
>
> FROM COUNTRY Co, CITY Ci
>
> WHERE (Co.name = Ci.Country) AND (Co.Life-Exp > 70)

Your Answer		Score	Explanation
⚪ 4 rows and 2 columns			
⚪ 3 rows and 2 columns			
⦿ 4 rows and 3 columns	✔	1.00	
⚪ 4 rows and 4 columns			
Total		1.00 / 1.00	

Question 7

Which one is a valid and preferred SQL CREATE TABLE statement?

Your Answer	Score	Explanation

○ CREATE TABLE COUNTRY(

NAME,
Cont,
Pop,
GDP,
LifeExp);

◉ CREATE TABLE COUNTRY(✔   1.00

NAME   VARCHAR (30),
Cont   VARCHAR (30),
Pop   NUMBER (7),
GDP   NUMBER (7),
LifeExp   NUMBER (5));

○ CREATE TABLE COUNTRY(

NAME   VARCHAR,
Cont   VARCHAR,
Pop   NUMBER,
GDP   NUMBER,
LifeExp   NUMBER);

| Total | 1.00 / 1.00 | |

Question 8

Which SQL statement will delete the first row of the Country table without removing any other rows?

Your Answer	Score	Explanation

○ DELETE FROM COUNTRY
WHERE Cont = 'NAM'

○ DELETE FROM COUNTRY

○ DELETE FROM COUNTRY   ✔   1.00

WHERE Name = 'Canada'

○ DROP TABLE COUNTRY

WHERE Name = 'Canada'

Total   1.00 / 1.00

Question 9

Which of the following SQL queries will return 3 rows?

Your Answer	Score	Explanation
○ SELECT * FROM CITY WHERE Pop > 5.0		
◉ SELECT * FROM COUNTRY, CITY WHERE COUNTRY.Name = CITY.Country AND COUNTRY.Life-Exp > 75	✔ 1.00	
○ SELECT * FROM COUNTRY, CITY AND COUNTRY.Life-Exp > 75		
○ SELECT * FROM COUNTRY WHERE Cont = 'North America'		
Total	1.00 / 1.00	

Question 10

Which English statement is closest to the following SQL query?

SELECT AVG (Co.Pop)

FROM COUNTRY Co

WHERE Co.Cont = 'South America'

Your Answer	Score	Explanation
⚪ List all the South American Countries in the Country table.		
⚪ What is the average population of all the countries in the Country table?		
🔘 What is the average population of South American Countries in the Country table?	✔ 1.00	
⚪ List the populations of all the South American Countries in the Country table.		
Total	1.00 / 1.00	

Question 11

Which English statement is closest to the following SQL query?

SELECT CoS1.Name

FROM COUNTRY_SPATIAL CoS1, COUNTRY_SPATIAL CoS2

WHERE Touch (CoS1.Shape, CoS2.Shape) = 1

AND CoS2.Name = 'Canada'

Your Answer	Score	Explanation
⚪ List the names of all countries, which do not share a boundary with Canada.		

○ List the names of all countries, which are neighbors of   ✔ 1.00
Canada.

○ List the names of all countries, which are not neighbors of
Canada.

Total	1.00 / 1.00

Question 12

Which of the following queries returns different result than others, assuming all rivers are longer than 600 units? City.Shape contains points representing cities. River.Shape contains line strings representing rivers.

Your Answer	Score	Explanation
● SELECT C.Name FROM City C, River R WHERE Within (C.Shape, Buffer (R.Shape, 300)) = 1	✖ 0.00	
○ SELECT C.Name FROM City C, River R WHERE Cross (R.Shape, Buffer (C.Shape, 300)) = 1		
○ SELECT C.Name FROM City C, River R WHERE Contains (C.Shape, Buffer (R.Shape, 300)) = 1		
○ SELECT C.Name FROM City C, River R WHERE Distance (C.Shape, R.Shape) <= 300		
Total	0.00 / 1.00	