QUESTION 2

-2. My first step was to create a new table.

Create table Growth\_percent\_per\_country (

country\_code nvarchar(50) not null,

country\_name nvarchar(100) null,

continent\_name nvarchar(50) not null);

Insert into Growth\_percent\_per\_country (country\_code, country\_name, continent\_name)

Select country\_code, country\_name, continent\_name

From (

Select Countries.country\_code, Countries.country\_name, Continents.continent\_name

From Continents

Right join [Continent-map] on [Continent-map].continent\_code = Continents.continent\_code

Right join Countries on Countries.country\_code = [Continent-map].country\_code) as Imported\_table;

Step 2 was to create a CTE

-- use BRAINTEE;

with cte\_capita (country\_code, gdp\_2011, gdp\_2012, growth\_percent) as

(Select a.country\_code,

a.gdp\_per\_capita as gdp\_2011,

b.gdp\_per\_capita as gdp\_2012,

(b.gdp\_per\_capita - a.gdp\_per\_capita)/ (a.gdp\_per\_capita)\*100 as growth\_percent

From [GDP\_Per-capita] a, [GDP\_Per-capita] b

Where (a.year = 2011 and b.year = 2012) and a.country\_code = b.country\_code)

Select \* from cte\_capita;

--step 3 was to join my CTE with the new table I created, and added the Rank () statement before the joining.

With cte\_capita (country\_code, gdp\_2011, gdp\_2012, growth\_percentage) as

(Select

a.country\_code,

b.gdp\_per\_capita as gdp\_2012,

cast ((b.gdp\_per\_capita - a.gdp\_per\_capita)/ (a.gdp\_per\_capita)\*100 as numeric(4,2)) as growth\_percentage

From [GDP\_Per-capita] a, [GDP\_Per-capita] b

Where (a.year = 2011 and b.year = 2012) and a.country\_code = b.country\_code)

Select rank() over(order by b.growth\_percentage desc) as Rank,

a.country\_code, a.country\_name, a.continent\_name, b.growth\_percentage

From Growth\_percent\_per\_country a

Left join cte\_capita b

On a.country\_code = b.country\_code;

--After running the above query, you may discover that there are a lot of null values at the bottom of the table. This is because some country\_code

--in Growth\_percent\_per\_country are not present in the GDP table (where our percent\_growth was taken from). So, those rows will appear null.

--Also, even the country\_code that are common in both tables, some of them had null values in the growth\_percent column. Thus, appears null.