1. Create a new table that consolidates information from multiple tables using DAX.

Consolidated Table = SUMMARIZE(

'Fact_Health Expenditure',

Dim_Country[CountryName],

Dim_Year[Year],

"GDP", SUM(Fact_GDP[GDPAmount]),

"Population", SUM(Fact_Population[PopulationCount]),

"Health Expenditure", SUM('Fact_Health Expenditure'[ExpenditureAmount]))

// This DAX function creates a table HealthExpenditureSummary. The preview of this table is shown below.

CountryName	•	Year	-	GDP	▼.	Population	•	Health Expenditure	-
Algeria		20	18	41	34	419	27	15	582
Angola		20)18	32	41	312	74	6	567
Botswana		20	18	69	48	24	51	24	194
Burkina Faso		20	18	70	38	203	93	1	189
Burundi		20	18	2	54	114	193		69
Benin		20)18	11:	93	119	41	1	198
Cabo Verde		20	18	34	43	5	71	10	063
Cameroon		20)18	15	94	250	77	2	286
Central African Republic		20)18	4	47	50	95		79
Chad		20)18	7	07	156	04		94
Comoros		20)18	15	18	7	76	2	291
Congo		20)18	25	07	54	41	4	183
Côte d'Ivoire		20)18	22	75	254	194	4	103
Democratic Republic of the Cong	go	20)18	54	41	870	87		60
Equatorial Guinea		20)18	87	19	15	02	16	587
Eritrea		20)18	5	32	34	45	1	159
Eswatini		20)18	40.	22	11	60	14	110
Ethiopia		20	18	7.	22	1111	29	1	116
Gabon		20)18	76.	95	21	92	13	315
Gambia		20)18	6	33	24	45	1	142
Ghana		20)18	21	30	308	71	4	156
Consolidated Table (573 rows)									

2. Find the countries/regions with the highest and lowest health expenditure for all years.

highest expenditure country = var max_expenditure = max('Consolidated Table'[Health Expenditure]) return

CALCULATE(max('Consolidated Table'[Country_Name]),filter('Consolidated Table', 'Consolidated Table'[Health Expenditure]=max_expenditure))

HighestHealthExpenditure = MAX('Consolidated Table'[Health Expenditure])



\$55.88K
HighestHealthExpenditure

Lowest expenditure country name = var max_expenditure = MIN('Consolidated Table'[Health Expenditure]) return

CALCULATE(MIN('Consolidated Table'[CountryName]),filter('Consolidated Table', 'Consolidated Table'[Health Expenditure] = max expenditure))

LowestHealthExpenditure = MIN('Consolidated Table'[Health Expenditure])

Democratic Republic of the Congo

Lowest expenditure country name

\$54
LowestHealthExpenditure

Function.

3. Determine the percentage of health expenditure as a share of GDP for each country.

```
Total_Expenditure = SUM('Consolidated Table'[Health Expenditure])

// This DAX function returns the sum of the total expenditure.

Total gdp = sum('Consolidated Table'[GDP])

// This DAX function returns the sum of the total GDP.

gdp_share = DIVIDE([Total_Expenditure],[Total gdp])*100

// This DAX function returns the GDP share.

//Further, the below table visualization shows the consolidated result of each DAX
```

CountryName	Total_Expenditure	Total gdp	gdp_share	
Afghanistan	429	1520	28.22	-/
Albania	4801	15905	30.19	
Algeria	4354	11591	37.56	
Andorra	46198	121099	38.15	
Angola	1598	7596	21.04	
Antigua and Barbuda	12007	50634	23.71	
Argentina	12058	30588	39.42	
Armenia	3639	13727	26.51	
Australia	72098	167934	42.93	
Austria	77296	150502	51.36	
Azerbaijan	4729	13499	35.03	
Bahamas	19792	88858	22.27	
Bahrain	25376	74789	33.93	
Bangladesh	833	5394	15.44	
Barbados	15932	53757	29.64	
Belarus	7254	19220	37.74	
Belgium	75972	139678	54.39	
Belize	4881	13955	34.98	
Benin	606	3605	16.81	
Bhutan	2892	9394	30.79	
Bolivia (Plurinational State of)	3705	10012	37.01	
Bosnia and Herzegovina	7631	17957	42.50	
Botswana	7184	19490	36.86	
Brazil	9657	24761	39.00	
Brunei Darussalam	29040	89163	32.57	
Total	3354878	8617922	38.93	•

4. Calculate the average health expenditure per capita for each country/region.

avg expenditure per capita = divide('Consolidated Table'[Total_Expenditure],'Consolidated
Table'[Total_Population])

// This DAX function returns the health expenditure per capita. This is further represented by following preview.

CountryName	avg expenditure per capita
Afghanistan	0.00
Albania	0.56
Algeria	0.03
Andorra	201.74
Angola	0.02
Antigua and Barbuda	43.35
Argentina	0.09
Armenia	0.43
Australia	0.95
Austria	2.91
Azerbaijan	0.15
Bahamas	16.32
Bahrain	5.69
Bangladesh	0.00
Barbados	18.94
Belarus	0.25
Belgium	2.21
Belize	4.19
Benin	0.02
Bhutan	1.26
Bolivia (Plurinational State of)	0.10
Bosnia and Herzegovina	0.76
Botswana	0.96
Brazil	0.02
Brunei Darussalam	22.10
Total	0.15