```
GET DATA
  /TYPE=XLSX
  /FILE='C:\Users\drgsr\Desktop\CAPSTONE\SPSS.xlsx'
  /SHEET=name 'Sheet1'
  /CELLRANGE=FULL
  /READNAMES=ON
  /DATATYPEMIN PERCENTAGE=95.0
  /HIDDEN IGNORE=YES.
EXECUTE.
DATASET NAME DataSet1 WINDOW=FRONT.
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT total_deaths_per_million
  /METHOD=ENTER total_cases_per_million
  /METHOD=ENTER aged_70_older.
```

Regression

```
[DataSet1]
```

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	total_cases_per_million[b]	.	Enter
2	aged_70_older[b]	.	Enter

a. Dependent Variable: total_deaths_per_million

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.597[a]	.356	.352	17.20932756
2	.651[b]	.424	.418	16.31342343

a. Predictors: (Constant), total_cases_per_million

b. Predictors: (Constant), total_cases_per_million, aged_70_older

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	29617.577	1	29617.577	100.005	.000[b]
	Residual	53605.133	181	296.161		
	Total	83222.710	182			
2	Regression	35319.709	2	17659.855	66.359	.000[c]
	Residual	47903.001	180	266.128		
	Total	83222.710	182			

a. Dependent Variable: total_deaths_per_million

b. Predictors: (Constant), total_cases_per_million

c. Predictors: (Constant), total_cases_per_million, aged_70_older

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.797	1.470		1.223	.223
	total_cases_per_million	.032	.003	.597	10.000	.000
2	(Constant)	-5.514	2.106		-2.618	.010
	total_cases_per_million	.024	.003	.452	7.008	.000
	aged_70_older	1.565	.338	.299	4.629	.000

a. Dependent Variable: total_deaths_per_million

Excluded Variables[a]

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
1	aged_70_older	.299[b]	4.629	.000	.326	.767

a. Dependent Variable: total_deaths_per_million

b. Predictors in the Model: (Constant), total_cases_per_million

```
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS R ANOVA CHANGE
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
```

```
/DEPENDENT total_deaths_per_million
/METHOD=ENTER total_cases_per_million
/METHOD=ENTER aged_70_older.
```

Regression Hierarchial Regression Model - COVID Dataset Identified Variables

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	total_cases_per_million[b]	.	Enter
2	aged_70_older[b]	.	Enter

a. Dependent Variable: total_deaths_per_million

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics		
					R Square Change	F Change	df1
1	.597[a]	.356	.352	17.20932756	.356	100.005	1
2	.651[b]	.424	.418	16.31342343	.069	21.426	1

Model Summary

Model	Change Statistics	
	df2	Sig. F Change
1	181	.000
2	180	.000

a. Predictors: (Constant), total_cases_per_million

b. Predictors: (Constant), total_cases_per_million, aged_70_older

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	29617.577	1	29617.577	100.005	.000[b]
	Residual	53605.133	181	296.161		
	Total	83222.710	182			
2	Regression	35319.709	2	17659.855	66.359	.000[c]
	Residual	47903.001	180	266.128		
	Total	83222.710	182			

a. Dependent Variable: total_deaths_per_million

b. Predictors: (Constant), total_cases_per_million

c. Predictors: (Constant), total_cases_per_million, aged_70_older

Coefficients[a]

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.797	1.470		1.223	.223
	total_cases_per_million	.032	.003	.597	10.000	.000
2	(Constant)	-5.514	2.106		-2.618	.010
	total_cases_per_million	.024	.003	.452	7.008	.000
	aged_70_older	1.565	.338	.299	4.629	.000

a. Dependent Variable: total_deaths_per_million

Excluded Variables[a]

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics
						Tolerance
1	aged_70_older	.299[b]	4.629	.000	.326	.767

a. Dependent Variable: total_deaths_per_million

b. Predictors in the Model: (Constant), total_cases_per_million

Results:
Model 1 (total_cases_per_million): R2 = 0.356 From Model Summary
ANOVA Results: F(1,181)=100.005 p<0.001

Coclusion- Yes, total_cases_per_million is a significant predictor of total_deaths_per_million

Model 2 (total_cases_per_million & aged_70_older) : R2 = .424 from Model Summary

ANOVA Results: F(2,180) = 66.359 p< 0.001

Coclusion- Yes, when taken together as a group (total_cases_per_million & aged_70_older) significantly predict total_deaths_per_million

Change in R2 - 0.69 from Model Summary ANOVA Results: F(1,180)=21.426 p<0 .001

Conclusion: aged_70_older accounts for a significant amount of variance over and beyond t otal_cases_per_million