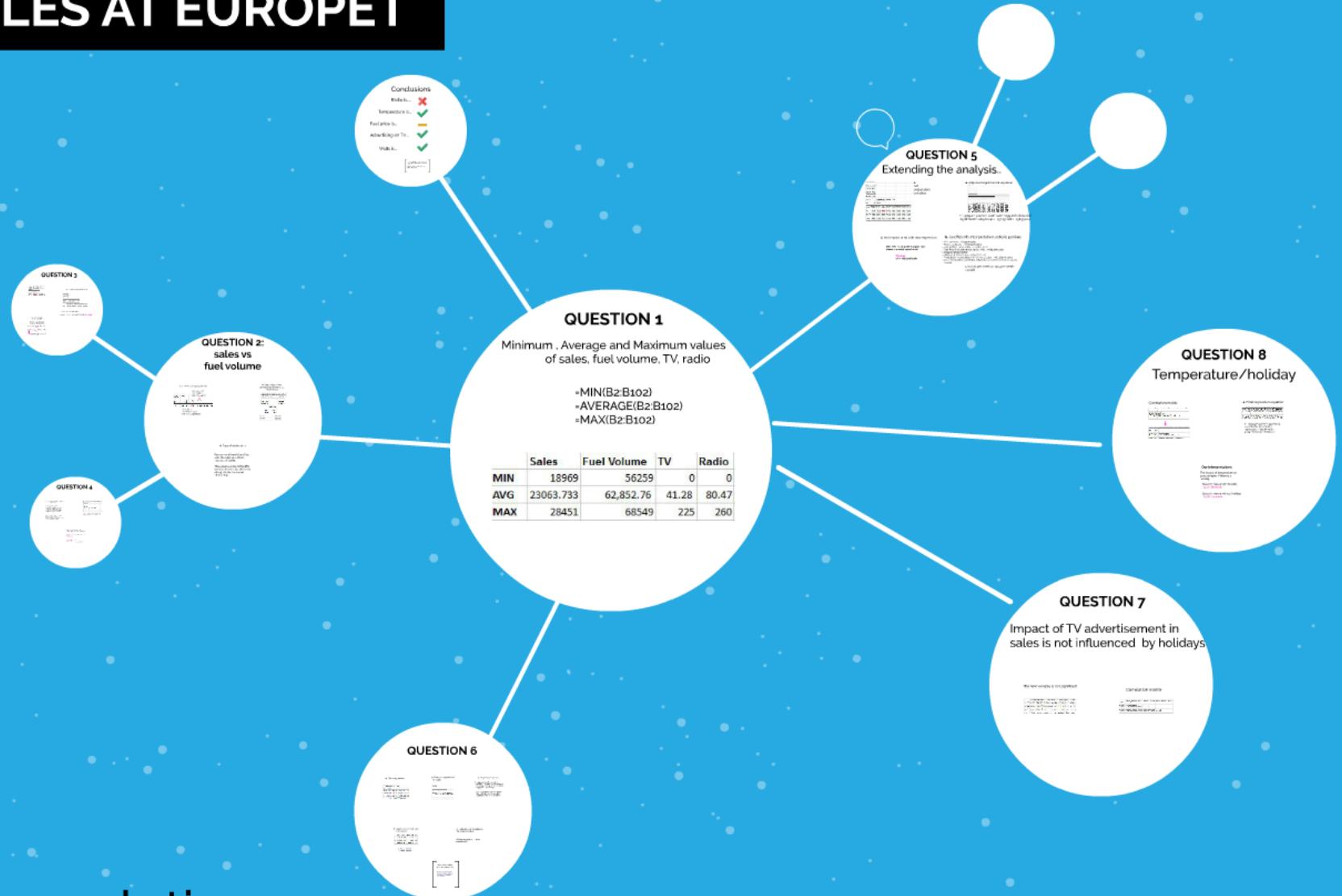
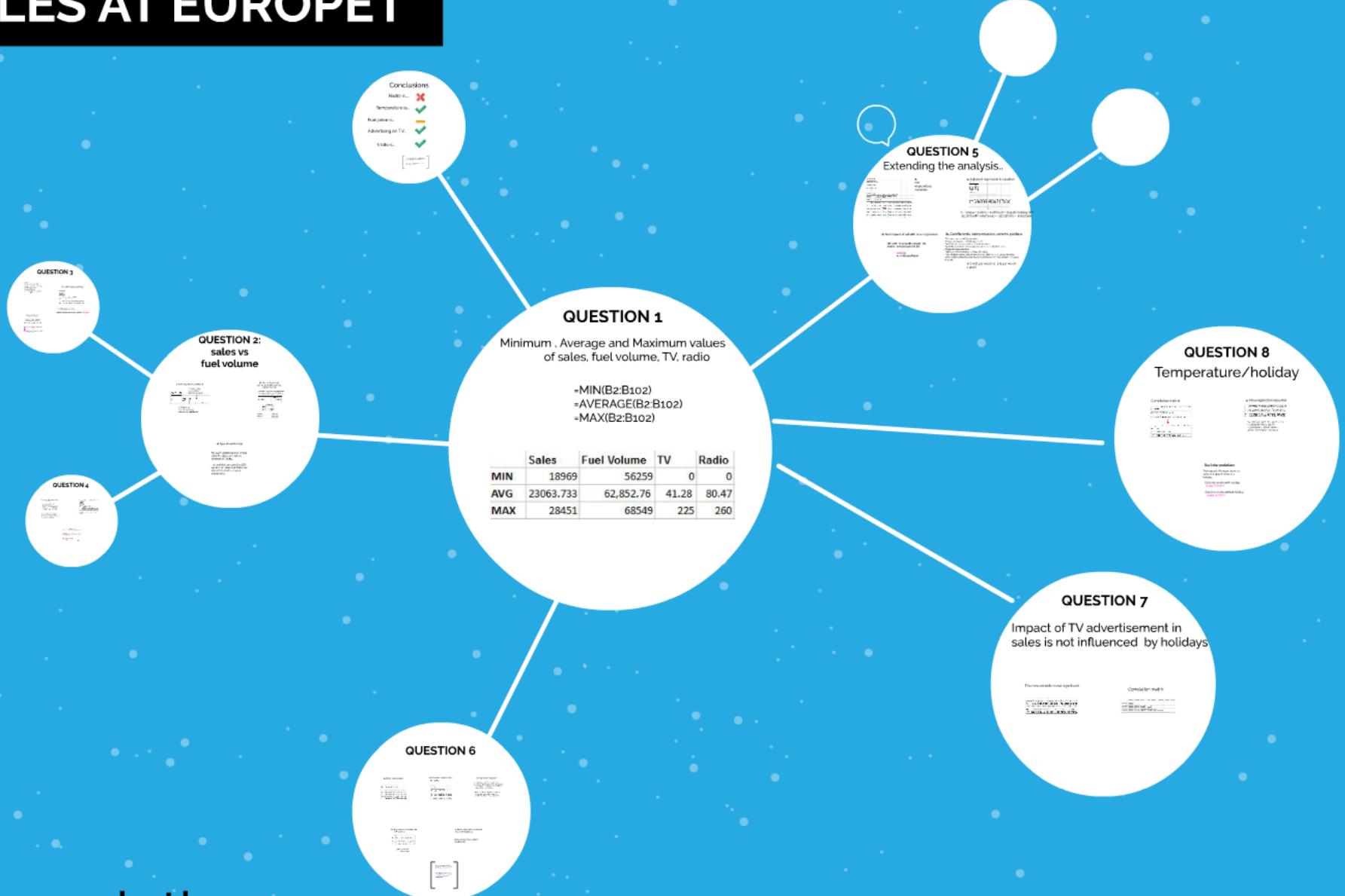


FUELING SALES AT EUROPET



SELLING SALES AT EUROPET



QUESTION 1

Minimum , Average and Maximum values
of sales, fuel volume, TV, radio

=MIN(B2:B102)
=AVERAGE(B2:B102)
=MAX(B2:B102)

	Sales	Fuel Volume	TV	Radio
MIN	18969	56259	0	0
AVG	23063.733	62,852.76	41.28	80.47
MAX	28451	68549	225	260

QUESTION 2: sales vs fuel volume

a. Is the relationship significant?

P-value < 0.05
the model is
statistically good

SUMMARY OUTPUT		COEFFICIENTS	
Output		Standard Error	
Beta coeff.		Standard Error	
t Statistic		P-value	
Intercept		0.000000	
Fuel Volume		0.64521337	
Residuals		Standard Error	
Sum of squares		Mean square	
D.F.		Variance	
ANOVA			
Regression			
Residuals			
Total			

T-statistic >2
the relationship is
statistically **significant**

b. Avg. c-store sales
estimates at different fuel
volume levels

sales at min: alfa coeff+beta coeff*min. vol
sales at avg: alfa coeff+beta coeff*avg. vol
sales at max: alfa coeff+beta coeff*max vol

	Coefficients
Intercepción	-17489,70996
Variable X1	0,64521337

Fuel Volumes	
MIN	5625
AVG	62.852.76
MAX	68549

Min sales	18809,34993
Avg Sales	23063,73267
Max sales	26739,02135

d. Type of relationship

For each additional liter of fuel sold, the sales at c-stores increase of **€0.65**.

This variable explains the **37%** variation in sales, but this is not enough to claim a causal relationship.

a. Is the relationship significant?

P-value < 0.05
the model is
statistically good

Coeficiente de determinación	0,375482839
R ² ajustado	0,369174585
Error típico	1946,333591
Observaciones	<u>101</u>

ANÁLISIS DE VARIANZA

		Grados de libertad	Media cuadrática de los cuadros	F	valor crítico de F
Regresión		1	225483863	225483863,4	59,5224654
Residuos		99	375033230	3788214,449	
Total		100	600517094		

	Coeficientes	Error típico	Estadístico t	Probabilidad inferior 95%	Superior 95%	Inferior 95,0%	Superior 95,0%
Intercepción	-17489,70996	5259,95282	-3,325 -9738	0,00124064	-27926,5975	-7052,8224	-27926,5975
Variable X 1	0,64521337	0,08363016	7,715080387	9,734E-12	0,479273	0,81115374	0,479273

T-statistic > 2
the relationship is
statistically **significant**

b. Avg. c-store sales estimates at different fuel volume levels

sales at min: alfa coeff.+beta coeff*min. vol

sales at avg: alfa coeff+beta coeff*avg. vol

sales at max: alfa coeff.+beta coeff*max vol

Coeficientes	
Intercepción	-17489,70996
Variable X 1	0,64521337

	Fuel Volume
MIN	56259
AVG	62,852.76
MAX	68549

Min sales	18809,34903
Avg Sales	23063,73267
Max sales	26739,02135

d. Type of relationship

For each additional liter of fuel sold, the sales at c-stores increase of **€0.65**.

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