



UPRRP LA IUPI

# Taller de análisis de datos sobre iniciativas empreendedoras en Puerto Rico

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Facultad de Administración de Empresas, UPRRP

5 de abril de 2019



# Equipo investigadores GEM PR

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Los tres miembros del equipo son profesores de la Facultad de Administración de Empresas (FAE) de UPR-RP.



# ¿Qué es el Global Entrepreneurship Monitor (GEM)?

GEM es un estudio académico internacional que provee información y medidas armonizadas de:

- **actitudes** de la población hacia la creación de emprendimientos y el emprendedor
- **actividades y características** de los individuos que participan en las distintas fases de la creación de emprendimientos
- **aspiraciones** que los emprendedores tienen para sus negocios
- **características** de los emprendimientos
- **factores del entorno** que promueven y obstaculizan el emprendimiento.



# ¿Qué lo hace único?

- Se pueden hacer comparaciones entre países, regiones y niveles de desarrollo económico.
- Es un consorcio de investigadores académicos.
- 20 años de datos.
- Desde el 1999, han participado más de 100 países y sobre 200,000 encuestados/año.
- Uno de sus objetivos es la formulación de políticas públicas efectivas para el estímulo del emprendimientos.



# Participación de Puerto Rico en el GEM

- **2013 - 2019** – Facultad de Administración de Empresas (FAE), UPR- RP
- **2007**- Sr. Luis Rivera Oyola (FAE) con el apoyo de otras universidades.
- **2005** – Primer país caribeño en participar.  
Participación parcial (sólo encuesta a los expertos nacionales).  
Equipo PR: Dra. Marinés Aponte PI y  
Prof. Edgardo Rodríguez Co-PI.  
Dra. Marta Álvarez, asesora estadística.



# Encuestas del GEM

## Encuesta a la Población Adulta (APS)



Una muestra representativa de un mínimo de **2000 adultos**.

De esta encuesta se obtienen la mayor parte de las medidas de actividad emprendedora, incluyendo el Índice de Actividad Emprendedora Temprana (TEA).

## Encuesta a los Expertos Nacionales (NES)



Una muestra de al menos **36 expertos nacionales** en 9 áreas del entorno empresarial.

Provee opiniones profundas sobre los factores que impactan (positiva y negativamente) el tipo y el nivel de empresarismo en cada economía.



# Cuestionario del APS

Su estructura tiene dos componentes principales:

1. **Módulos** – grupos de preguntas, opcionales y mandatorias, en diferentes temas.
2. **Bloques** – representan los diferentes grupos de encuestados (emprendedores nacientes, etc.); los módulos están distribuidos en los diferentes bloques.





# Bloques del APS para el 2017

**Introducción:** Todos los encuestados

**Bloque 1:** Emprendedores nacientes

**Bloque 2:** Dueños-gerentes

**Bloque 3:** Emprendedores potenciales y los que discontinuaron

**Bloque 4:** Inversores informales

**Bloque 5:** Emprendimiento en el empleo

**Bloque 6:** Tema especial: *Transnational Diaspora entrepreneurship* (Opcional)

**Bloque 7:** Todos los encuestados (variables demográficas)





# Formato del cuestionario APS

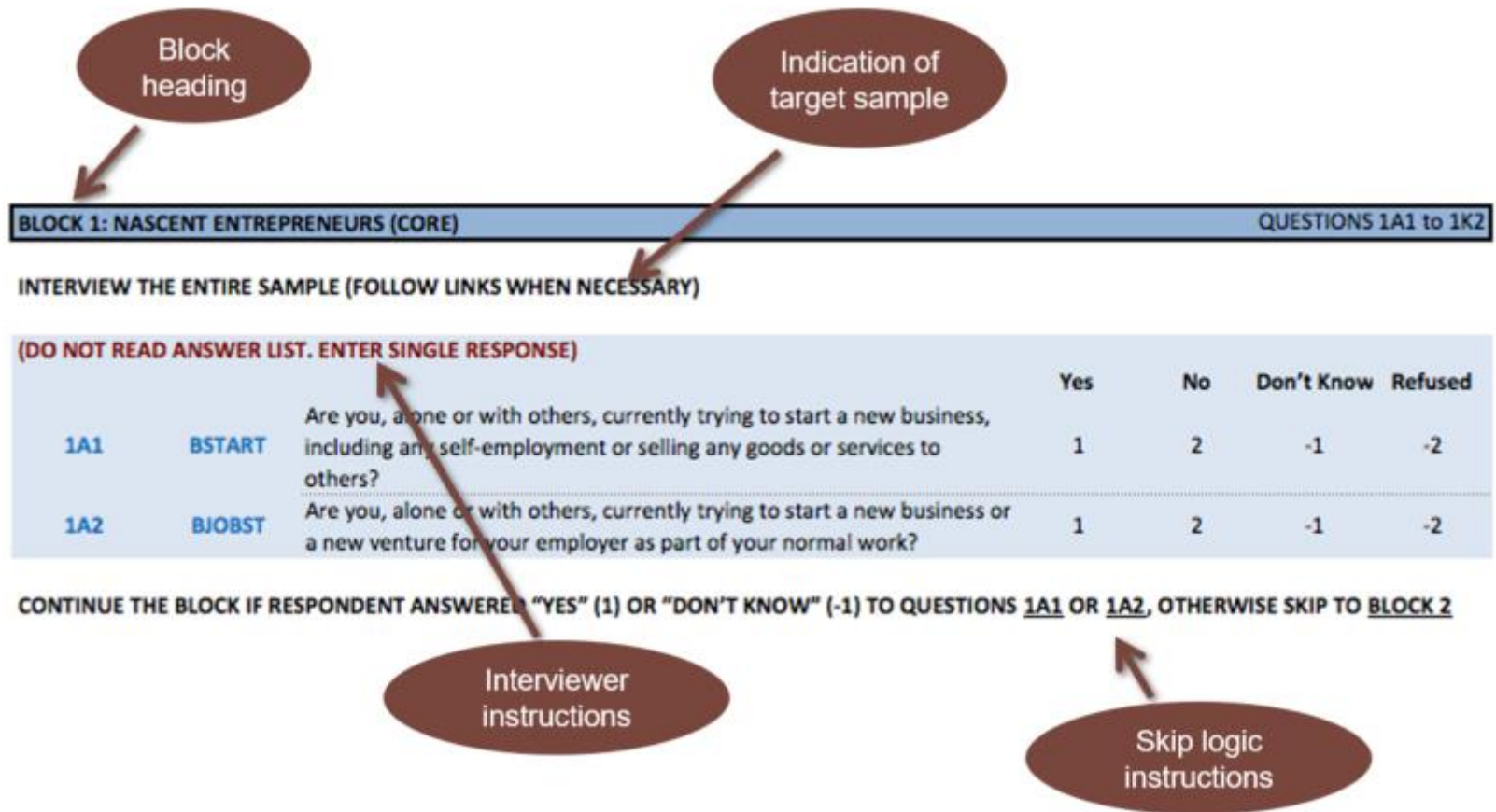


Figura: Francis Carmona, presentación GEM APS

# Procesamiento de los datos

## Submitted Raw Data

Data submitted by National Team

## Harmonized Data

Reviewed, cleaned, standardized data ready to be merged with all other countries for processing

## Processed Individual Level Data

APS Data with all computed APS indices (TEA rates, Established Business rates, etc.)

## Processed National Level Data

APS index rates computed at the national level and weighted by weight\_L (for 18-64 population)

*Figura: Francis Carmona, presentación GEM APS*



# VARIABLES “INDIVIDUALES” VS “NACIONALES”

- Variables individuales (“Individual level”)
  - Variables de un país, basadas en la contestación de los 2,000 encuestados.
  - Variables APS, variables demográficas, índices creados por GEM.
- Variables nacionales (“National level”)
  - Utiliza los datos agregados y armonizados para calcular los índices para cada país.
  - Todos los índices nacionales utilizan los pesos WEIGHT\_L.
  - Informe Global está basado en las variables nacionales.



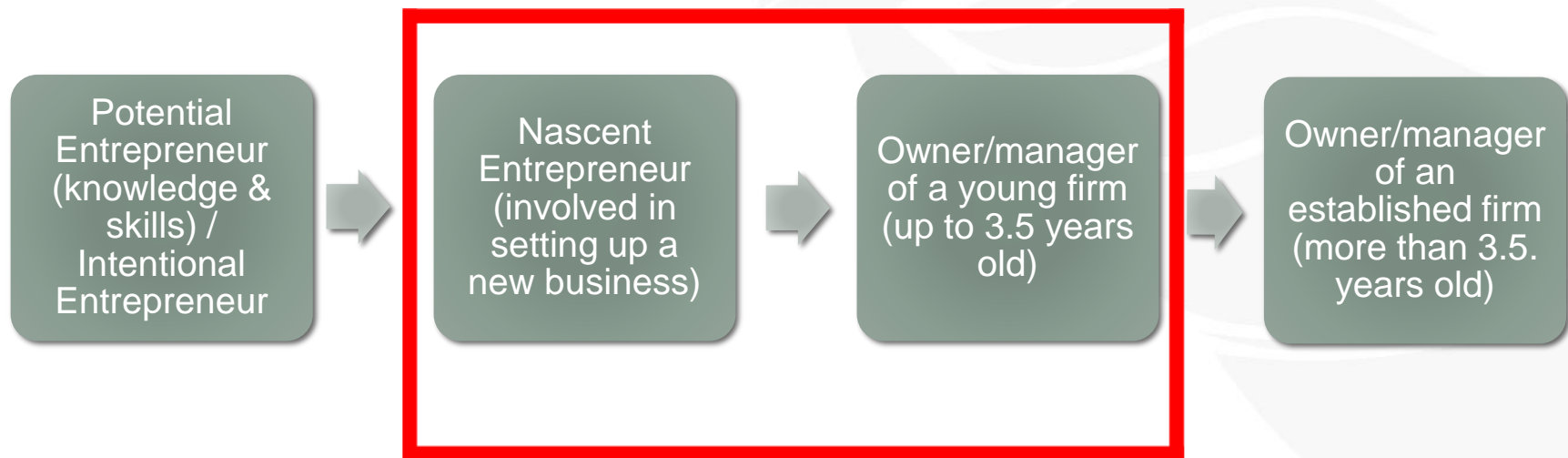
# GEM 2017 APS individual level variable descriptions

	A	B	C	D
1	VARIABLE NAME	CODE	VARIABLE LABEL	NOTE
2	<b>NOTE: EACH YEAR, "YY" IS REPLACED WITH TWO DIGIT YEAR INDICATOR.</b>			
3	COUNTRY		NUMERIC COUNTRY [PHONE] CODE	
4	CTRYALP		ALPHABETIC COUNTRY CODE	
5	CAT_GCR1		COUNTRY GROUP GCR REPORT- 5 CAT	
6	CAT_GCR2		COUNTRY GROUP GCR REPORT- 3 CAT	
7	YRSURV		YEAR OF SURVEY	
8	SETID		DIGIT ARE COUNTRY CODES	
9	ID		UNIQUE RESPONDENT ID NUMBER	
0	WEIGHT		GEM)	TEAM-PROVIDED WEIGHT
1	WEIGHT_L		WEIGHT FOR 18-64 POPULATION	USED TO ARRIVE AT COUNTRY LEVEL RESULTS
2	WEIGHT_A		WEIGHT FOR 18+ POPULATION	
3	<b>N</b>			
4	GEMWORK		<i>GEM HARMONIZED WORK STATUS</i>	BASED ON WORK STATUS VARIABLE PROVIDED BY COUNTRY. VARIABLE MODIFIED IN 2014 TO INCLUDE SEPARATE "NOT WORKING" AND "OTHER" CATEGORIES (BEFORE 2014, "NOT WORKING, OTHER" WAS CATEGORY 6).
5		1	FULL: FULL OR PART TIME (INCLUDES SELF-E	
6		2	PART TIME WORK ONLY	
7		3	RETIRED / DISABLED	
8		4	HOMEMAKER	
9		5	STUDENT	
0		6	NOT WORKING	
1		7	OTHER	
2		-2	MISS/CANNOT CODE	
3				
4	GEMOCCU		<i>GEM HARMONIZED WORK STATUS</i>	
5		1	FULL: FULL OR PART TIME	
6		2	PART TIME WORK ONLY	
7		3	RETIRED / DISABLED	
8		4	HOMEMAKER	



# Modelo GEM del proceso de emprender

## Total Early Stage Entrepreneurial activity (TEA)



*Figura: Francis Carmona, presentación GEM APS*

# Algunas de las variables del APS más populares:

- Percepción de oportunidades para emprender
- Percepción de capacidad para emprender
- Emprendimiento como una buena selección de carrera
- Prestigio del emprendedor exitoso
- Intención de emprender
- Miedo al fracaso de emprender
- Índice de Actividad Emprendedora Temprana (TEA)
- TEA por género/motivación (oportunidad/necesidad)
- Porcentaje de emprendedores establecidos



# Enlaces - GEM

GEM : <https://www.gemconsortium.org/>

GEM PR: <http://gem.uprrp.edu/>





# GEM : <https://www.gemconsortium.org/>

<https://www.gemconsortium.org>

TEAM LOG IN

ECONOMY PROFILES

REPORTS

DATA

RESEARCH PAPERS

ABOUT GEM

**GEM** Global Entrepreneurship Monitor

**DID YOU KNOW?**

NEARLY 20% OF WORLD'S

ENTREPRENEURS WORK WITH FAMILY

MEMBERS

FIND OUT MORE

**GEM** Global Entrepreneurship Monitor

03:55

vimeo



# Datos públicos “Nacionales”:

<https://www.gemconsortium.org/data>

https://www.gemconsortium.org/data

The screenshot shows the top navigation bar of the GEM Data website. It includes a 'TEAM LOG IN' button and several menu items: 'ECONOMY PROFILES', 'REPORTS', 'DATA' (highlighted in green), 'RESEARCH PAPERS', and 'ABOUT GEM'. Below the navigation bar is a banner image of a library with bookshelves. On the left, the GEM logo is displayed with the text 'Global Entrepreneurship Monitor'. On the right, logos for 'BABSON' and 'KOEf' are visible. Two data category cards are shown below the banner. The left card is titled 'ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES' and features a green grid background with a white silhouette of a person's head and shoulders. The right card is titled 'ENTREPRENEURIAL FRAMEWORK CONDITIONS' and features a similar green grid background with a white silhouette of a person's head and shoulders, surrounded by several white and orange circles of varying sizes. The background of the entire page is a dark blue gradient with a white grid pattern.

APS

NES



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# Datos públicos:

<https://www.gemconsortium.org/data>

**APS**



Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship

DIFFERENCES BETWEEN ECONOMIES

TRENDS OVER TIME

CUSTOM DATA TABLES

FULL DATA SETS

**NES**



Entrepreneurship doesn't take place in a vacuum — a whole host of factors determine how easy (or difficult) it is to start up. Our National Expert Survey (NES) looks at the national context in which individuals start businesses

DIFFERENCES BETWEEN ECONOMIES

TRENDS OVER TIME

CUSTOM DATA TABLES

FULL DATA SETS



# Datos públicos del APS

ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES



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[DIFFERENCES BETWEEN ECONOMIES](#)

[TRENDS OVER TIME](#)

[CUSTOM DATA TABLES](#)

[FULL DATA SETS](#)

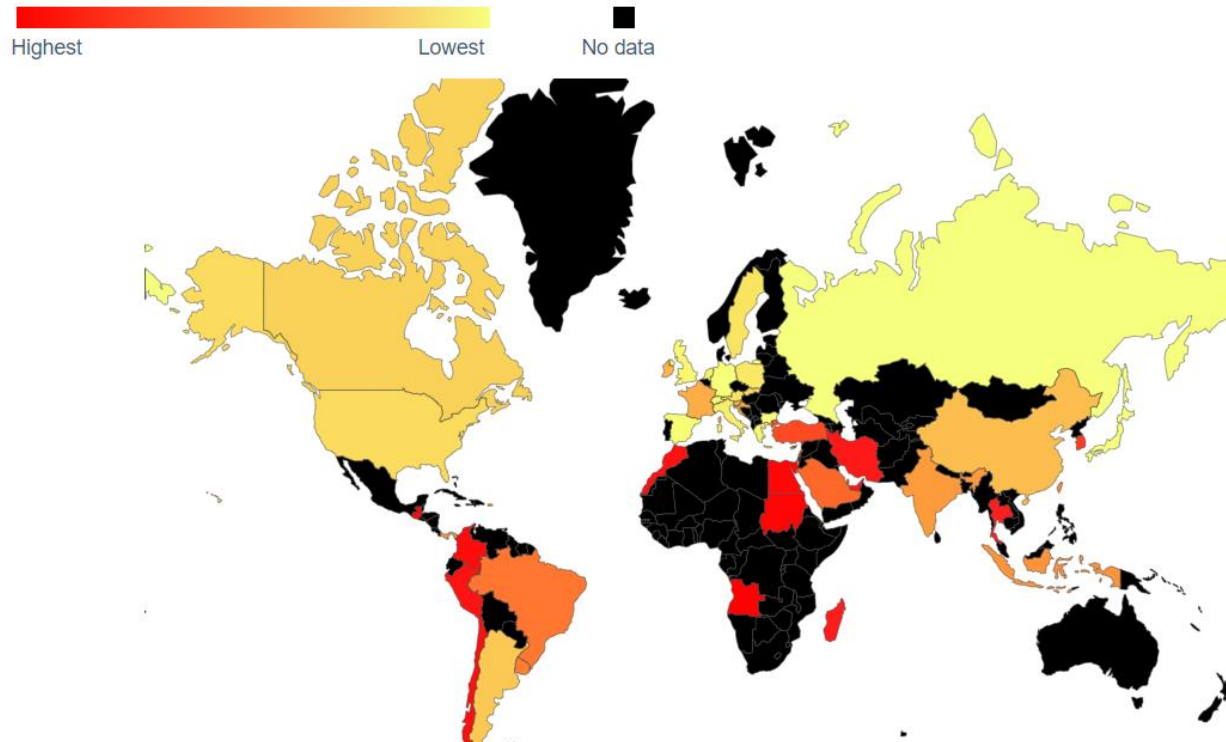


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# DIFFERENCES BETWEEN ECONOMIES

## Entrepreneurial Intentions: 2018

Percentage of 18-64 population (individuals involved in any stage of entrepreneurial activity excluded) who are latent entrepreneurs and start a business within three years

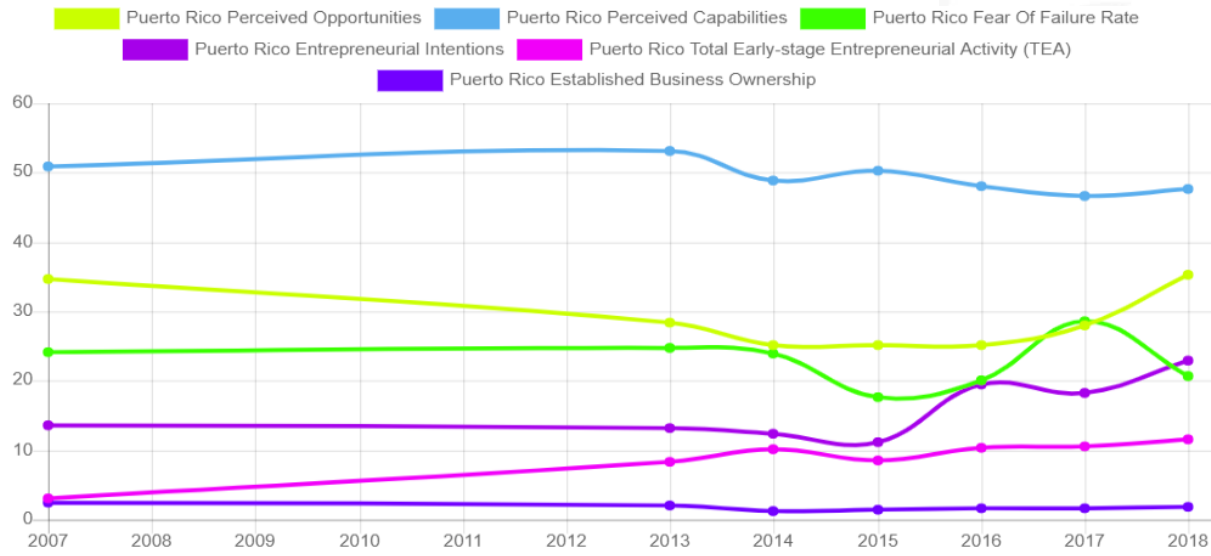


INDICATOR	YEAR
<input type="radio"/> Perceived Opportunities	<input type="radio"/> Most recent data
<input type="radio"/> Perceived Capabilities	<input checked="" type="radio"/> 2018
<input type="radio"/> Fear Of Failure Rate	<input type="radio"/> 2017
<input checked="" type="radio"/> Entrepreneurial Intentions	<input type="radio"/> 2016





# TRENDS OVER TIME



SAVE AS IMAGE

**ECONOMY**

- Costa Rica
- Dominican Republic
- Ecuador
- El Salvador
- Guatemala
- Jamaica
- Mexico
- Panama

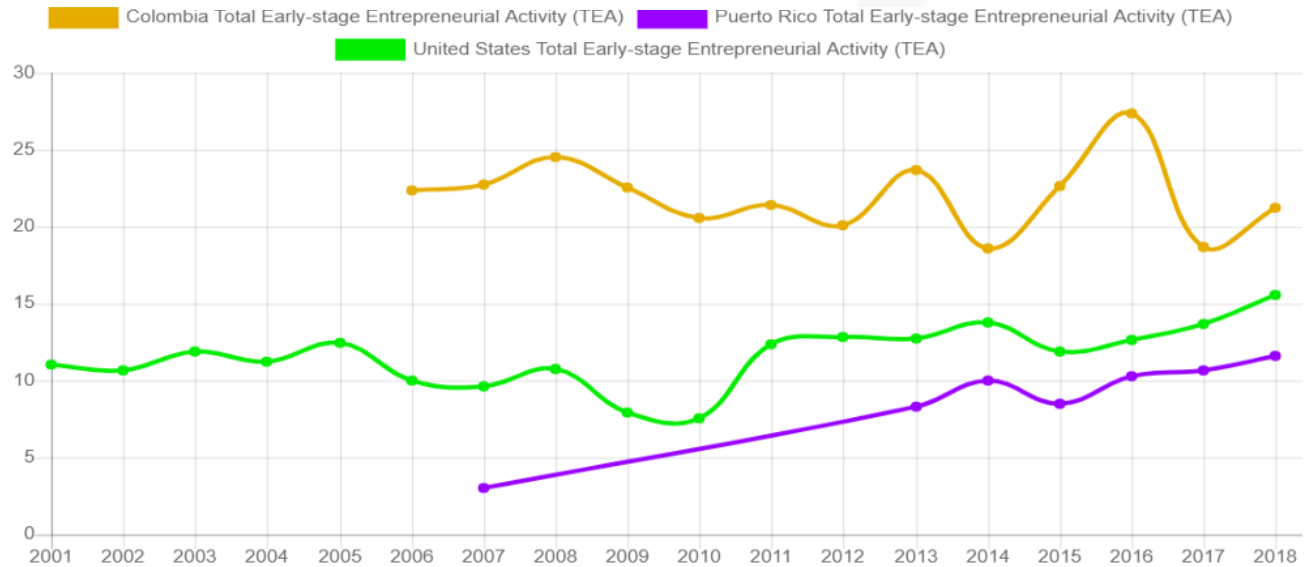
**INDICATOR**

- Perceived Opportunities
- Perceived Capabilities
- Fear Of Failure Rate
- Entrepreneurial Intentions
- Total Early-Stage Entrepreneurial Activity (TEA)
- Established Business Ownership

GO



# TRENDS OVER TIME



SAVE AS IMAGE

## ECONOMY

- Costa Rica
- Dominican Republic
- Ecuador
- El Salvador
- Guatemala
- Jamaica
- Mexico
- Panama

## INDICATOR

- Perceived Opportunities
- Perceived Capabilities
- Fear Of Failure Rate
- Entrepreneurial Intentions
- Total Early-Stage Entrepreneurial Activity (TEA)
- Established Business Ownership
- Entrepreneurial Employee Activity

GO





# CUSTOM DATA TABLES

## ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship



### ECONOMY

- Costa Rica
- Dominican Republic
- Ecuador
- El Salvador
- Guatemala
- Jamaica
- Mexico
- Panama
- Peru
- Puerto Rico
- Suriname
- Trinidad and Tobago
- Uruguay
- Venezuela

### INDICATOR

- All
- Perceived Opportunities
- Perceived Capabilities
- Fear Of Failure Rate
- Entrepreneurial Intentions
- Total Early-Stage Entrepreneurial Activity (TEA)
- Established Business Ownership
- Entrepreneurial Employee Activity
- Motivational Index
- Female/Male TEA
- Female/Male Opportunity-Driven TEA
- High Job Creation Expectation
- Innovation

### YEAR

- All
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2007





GO

RESET

EXPORT

Economy ⌵

Year ⌵

Perceived Opportunities ⌵

Perceived Capabilities ⌵

Fear Of Failure Rate

Puerto Rico	2018	35.21	47.54	20.74
Puerto Rico	2017	27.97	46.65	28.60
Puerto Rico	2016	25.15	47.94	20.07
Puerto Rico	2015	25.05	50.37	17.73
Puerto Rico	2014	25.08	48.84	24.01
Puerto Rico	2013	28.34	53.03	24.63



# CUSTOM DATA TABLES

EXPORT

export-APS-2019-04-04\_21-11-40 - Excel

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do...

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1				Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	Rate of in	Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	Percentage of 18	
2	code	economy	year	Perceived	Perceived	Fear of fai	Entreprene	Total early	Establisher	Entreprene	Motivation	Female/M	Female/M	High Job C	Innovator	Business S	High Statu	Entrepreneurship	
3	787	Puerto Ric	2018	35.21	47.54	20.74	22.87	11.61	1.85	1.85	1.73	0.55	0.86	24.19	26.06	9.48	52.63	20.71	
4	787	Puerto Ric	2017	27.97	46.65	28.6	18.3	10.63	1.64	2.55	1.34	0.63	0.9	22.88	25.17	12.82	52.3	22.56	
5	787	Puerto Ric	2016	25.15	47.94	20.07	19.39	10.32	1.6	1.8	1.3	0.58	1.04	20.3	19.9	15.44	50.5	21.5	
6	787	Puerto Ric	2015	25.05	50.37	17.73	11.12	8.48	1.41	0.61	1.65	0.72	0.94	9.8	24.29	5.6	47.57	16.73	
7	787	Puerto Ric	2014	25.08	48.84	24.01	12.45	10.04	1.27	1.8	2.49	0.81	0.98	7.62	40.07	10.55	51.13	18.51	
8	787	Puerto Ric	2013	28.34	53.03	24.63	13.08	8.28	2.03	2.5	1.99	0.57	1	11.5	16.54	6.77	50.15	17.93	



# CUSTOM DATA TABLES

# para varios países

## ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship

ECONOMY	INDICATOR	YEAR
<input type="checkbox"/> Costa Rica	<input checked="" type="checkbox"/> All <input type="text" value="Search"/>	<input checked="" type="checkbox"/> All <input type="text" value="Search"/>
<input type="checkbox"/> Dominican Republic	<input checked="" type="checkbox"/> Perceived Opportunities	<input checked="" type="checkbox"/> 2018
<input type="checkbox"/> Ecuador	<input checked="" type="checkbox"/> Perceived Capabilities	<input checked="" type="checkbox"/> 2017
<input type="checkbox"/> El Salvador	<input checked="" type="checkbox"/> Fear Of Failure Rate	<input checked="" type="checkbox"/> 2016
<input type="checkbox"/> Guatemala	<input checked="" type="checkbox"/> Entrepreneurial Intentions	<input checked="" type="checkbox"/> 2015
<input checked="" type="checkbox"/> Jamaica	<input checked="" type="checkbox"/> Total Early-Stage Entrepreneurial Activity (TEA)	<input checked="" type="checkbox"/> 2014
<input type="checkbox"/> Mexico	<input checked="" type="checkbox"/> Established Business Ownership	<input checked="" type="checkbox"/> 2013
<input type="checkbox"/> Panama	<input checked="" type="checkbox"/> Entrepreneurial Employee Activity	<input checked="" type="checkbox"/> 2012
<input type="checkbox"/> Peru	<input checked="" type="checkbox"/> Motivational Index	<input checked="" type="checkbox"/> 2011
<input checked="" type="checkbox"/> Puerto Rico	<input checked="" type="checkbox"/> Female/Male TEA	<input checked="" type="checkbox"/> 2010
<input type="checkbox"/> Suriname	<input checked="" type="checkbox"/> Female/Male Opportunity-Driven TEA	<input checked="" type="checkbox"/> 2009
<input checked="" type="checkbox"/> Trinidad and Tobago	<input checked="" type="checkbox"/> High Job Creation Expectation	<input checked="" type="checkbox"/> 2008
<input type="checkbox"/> Uruguay	<input checked="" type="checkbox"/> Innovation	<input checked="" type="checkbox"/> 2007
<input type="checkbox"/> Venezuela		<input checked="" type="checkbox"/> 2006



Economy ↕	Year ↕	Perceived Opportunities ↕	Perceived Capabilities ↕	Fear Of Failure Rate
Puerto Rico	2018	35.21	47.54	20.74
Puerto Rico	2017	27.97	46.65	28.60
Jamaica	2016	64.38	83.54	24.53
Puerto Rico	2016	25.15	47.94	20.07
Puerto Rico	2015	25.05	50.37	17.73
Jamaica	2014	57.05	81.23	22.04
Puerto Rico	2014	25.08	48.84	24.01
Trinidad and Tobago	2014	58.62	75.23	16.79
Jamaica	2013	51.23	79.14	27.05
Puerto Rico	2013	28.34	53.03	24.63
Trinidad and Tobago	2013	58.01	75.26	19.75
Trinidad and Tobago	2012	59.23	76.06	16.65
Jamaica	2011	49.14	78.60	29.04
Trinidad and Tobago	2011	62.14	81.21	16.71
Jamaica	2010	56.09	80.16	32.98
Trinidad and Tobago	2010	69.11	82.76	11.59
Jamaica	2009	42.33	77.07	24.11
Jamaica	2008	51.09	69.14	26.21
Puerto Rico	2007	34.63	50.84	24.09
Jamaica	2006	53.07	72.32	27.49
Jamaica	2005	44.68	72.53	30.52



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Font: Calibri, 11, Bold, Italic, Underline, Color, Background Color

Alignment: Wrap Text, Merge & Center

Number: General, Currency, Percentage, Date, Time, Text, Fraction, Scientific, Custom

Styles: Normal, Bad, Good, Neutral, Calculation, Check Cell

A1

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1				Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	Rate of inv	Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	Percentage	Percentage c
2	code	economy	year	Perceived	Perceived	Fear of fai	Entreprene	Total early	Establishe	Entreprene	Motivator	Female/M	Female/M	High Job C	Innovator	Business S	High Statu	Entrepreneu
3	787	Puerto Rico	2018	35.21	47.54	20.74	22.87	11.61	1.85	1.85	1.73	0.55	0.86	24.19	26.06	9.48	52.63	20.71
4	787	Puerto Rico	2017	27.97	46.65	28.6	18.3	10.63	1.64	2.55	1.34	0.63	0.9	22.88	25.17	12.82	52.3	22.56
5	876	Jamaica	2016	64.38	83.54	24.53	37.9	9.85	8.2	0.7	0.8	0.81	0.96	0.5	20.1	3.66	84.5	85.2
6	787	Puerto Rico	2016	25.15	47.94	20.07	19.39	10.32	1.6	1.8	1.3	0.58	1.04	20.3	19.9	15.44	50.5	21.5
7	787	Puerto Rico	2015	25.05	50.37	17.73	11.12	8.48	1.41	0.61	1.65	0.72	0.94	9.8	24.29	5.6	47.57	16.73
8	876	Jamaica	2014	57.05	81.23	22.04	35.33	19.27	14.44	0.42	1.04	0.82	0.85	9.79	13.9	3.17	84.05	83.5
9	787	Puerto Rico	2014	25.08	48.84	24.01	12.45	10.04	1.27	1.8	2.49	0.81	0.98	7.62	40.07	10.55	51.13	18.51
10	868	Trinidad and T	2014	58.62	75.23	16.79	33.91	14.62	8.48	1.58	5.35	0.82	0.98	27.47	15.96	10.21	69.5	79.47
11	876	Jamaica	2013	51.23	79.14	27.05	39.51	13.75	6.28		0.84	0.8	0.67	5.34	16.28	4.67	80.93	79.36
12	787	Puerto Rico	2013	28.34	53.03	24.63	13.08	8.28	2.03	2.5	1.99	0.57	1	11.5	16.54	6.77	50.15	17.93
13	868	Trinidad and T	2013	58.01	75.26	19.75	28.69	19.48	11.4		6.76	0.67	0.99	27.25	11.19	2.96	72.02	79.54
14	868	Trinidad and T	2012	59.23	76.06	16.65	37.48	14.96	7.19		3.97	0.79		18.25	14.74	16.05	75.67	77.93
15	876	Jamaica	2011	49.14	78.6	29.04	19.45	13.71	5.14	0.19	1.2	0.85		3	16.9	8.28	82.48	81.04
16	868	Trinidad and T	2011	62.14	81.21	16.71	35.21	22.67	6.91	1.15	2.95	0.66		19.5	8.2	7.47	81.8	83.58
17	876	Jamaica	2010	56.09	80.16	32.98	38.12	10.48	6.9		0.91	0.79		10.9		4.8	84.76	85.08
18	868	Trinidad and T	2010	69.11	82.76	11.59	30.36	15	8.54		3.29	0.91		13.6		14.51	77.59	83.21
19	876	Jamaica	2009	42.33	77.07	24.11	28.63	22.73	16.31			0.74		11.07			77.1	75.96
20	876	Jamaica	2008	51.09	69.14	26.21	16.97	15.63	9.12			0.85		6.02		3.6	83.62	80.9
21	787	Puerto Rico	2007	34.63	50.84	24.09	13.64	3.06	2.4			0.94		65.43		26.62	66.68	72.81
22	876	Jamaica	2006	53.07	72.32	27.49	37.14	20.32	10.3			0.8		6.65		2.13	79.16	77.84
23	876	Jamaica	2005	44.68	72.53	30.52	24.92	17	9.53			0.85		10.65		3.42	79.5	71.8
24																		

# FULL DATA SETS

## ENTREPRENEURIAL BEHAVIOUR AND ATTITUDES

Not all entrepreneurs are alike. Our Adult Population Survey (APS) looks at the characteristics, motivations and ambitions of individuals starting businesses, as well as social attitudes towards entrepreneurship



These full datasets are only made available to the public 3 years after data collection.

[More info](#)

Name ↕

GEM 2015 APS Global National Level Data

DOWNLOAD (146 KB)

GEM 2015 APS Global Individual Level Data

DOWNLOAD (26.4 MB)

GEM 2015 APS Global Individual Level Data - Finance Special Topic

DOWNLOAD (1.22 MB)

GEM 2015 APS Global Individual Level Data - Social Entrepreneurship Special Topic

DOWNLOAD (780 KB)

GEM 2014 APS Global National Level Data

DOWNLOAD (104 KB)

GEM 2014 APS Global Individual Level Data

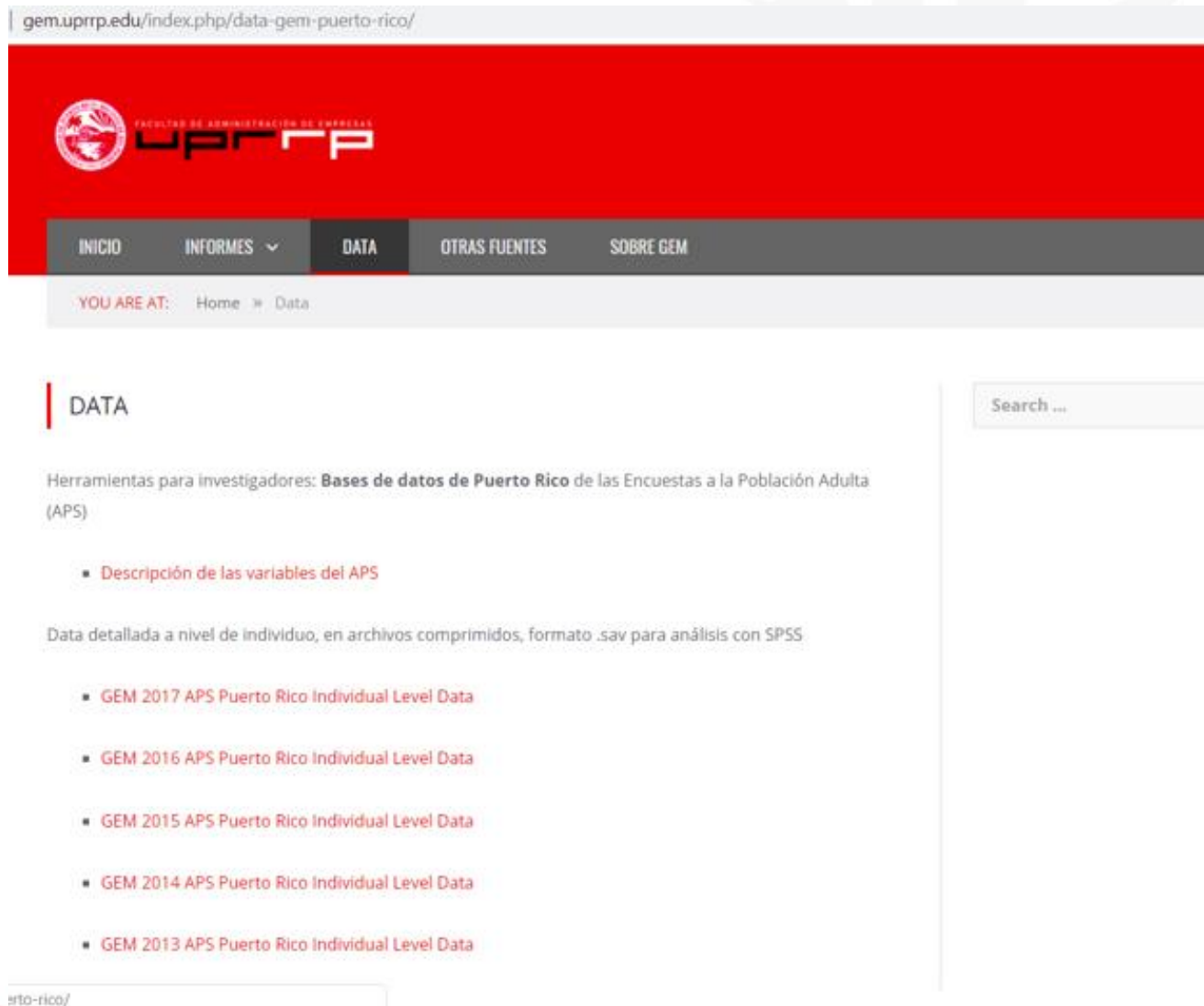
DOWNLOAD (32.0 MB)





# Datos públicos de Puerto Rico: “Individual Data”: <http://gem.uprrp.edu/>

gem.uprrp.edu/index.php/data-gem-puerto-rico/



The screenshot shows the website interface for GEM (Global Entrepreneurship Monitor) data. The header is red with the UPRRP logo and navigation tabs: INICIO, INFORMES, DATA, OTRAS FUENTES, and SOBRE GEM. Below the header, a breadcrumb trail reads 'YOU ARE AT: Home » Data'. The main content area is titled 'DATA' and includes a search bar. The text describes the data as 'Herramientas para investigadores: Bases de datos de Puerto Rico de las Encuestas a la Población Adulta (APS)'. A list of data files is provided, including a description of variables and individual-level data for the years 2013 through 2017.

YOU ARE AT: Home » Data

## DATA

Herramientas para investigadores: **Bases de datos de Puerto Rico** de las Encuestas a la Población Adulta (APS)

- Descripción de las variables del APS

Data detallada a nivel de individuo, en archivos comprimidos, formato .sav para análisis con SPSS

- GEM 2017 APS Puerto Rico Individual Level Data
- GEM 2016 APS Puerto Rico Individual Level Data
- GEM 2015 APS Puerto Rico Individual Level Data
- GEM 2014 APS Puerto Rico Individual Level Data
- GEM 2013 APS Puerto Rico Individual Level Data

uerto-rico/



# Datos a utilizar en taller: GEM 2017

Encuesta a la Población (APS) de Puerto Rico:

*GEM 2017 APS Puerto Rico Individual Data*

– 2,000 encuestados



# SPSS

- SPSS está disponible gratuitamente para docentes del Recinto. Para solicitarlo, debe llamar a la mesa de ayuda de la División de Tecnologías, ext. 80400.
- Para estudiantes, hay la oportunidad de rentarlo por seis meses o un año. Para información sobre los costos:

<http://helpdesk.uprrp.edu:9675/portal>



# GEM 2017 APS Puerto Rico Individual Level Data\_UPR.sav

GEM 2017 APS Puerto Rico Individual Level Data\_UPR.sav [DataSet3] - IBM SPSS Statistics Data Editor

Visible: 265 of 265 Variables

	country	ctryalp	CAT_GC R1	CAT_GCR2	ysurv	setid	ID	weight	WEIGHT_ L	WEIGHT_ A	GEMWORK	GEMWORK 3	GEMOCCU	GEMHHINC	GEMEDUC
1	787	PR	5	3	2017	787170079534	79534	.7054	.71	.71	2	10	2	3467	1316
2	787	PR	5	3	2017	787170079535	79535	.7366	.74	.74	1	10	1	68100	1316
3	787	PR	5	3	2017	787170079536	79536	2.6489	2.65	2.65	1	10	1	68100	1316
4	787	PR	5	3	2017	787170079537	79537	.9403	.94	.94	1	10	7	68100	1316
5	787	PR	5	3	2017	787170079538	79538	.6519	.65	.65	4	20	4	3467	1316
6	787	PR	5	3	2017	787170079559	79559	.9363	.94	.94	3	30	3	68100	1212
7	787	PR	5	3	2017	787170079560	79560	.7366	.74	.74	3	30	3	33	1212
8	787	PR	5	3	2017	787170079561	79561	.7366	.74	.74	1	10	1	68100	1720
9	787	PR	5	3	2017	787170079562	79562	1.8750	1.87	1.87	6	20	6	3467	1316
10	787	PR	5	3	2017	787170079565	79565	.7054	.71	.71	1	10	7	33	1316
11	787	PR	5	3	2017	787170079566	79566	.9363	.94	.94	3	30	3	3467	111
12	787	PR	5	3	2017	787170079567	79567	.7054	.71	.71	1	10	1	3467	1212
13	787	PR	5	3	2017	787170079568	79568	.8415	.84	.84	1	10	1	3467	1316
14	787	PR	5	3	2017	787170079569	79569	.9403	.94	.94	1	10	1	3467	1316
15	787	PR	5	3	2017	787170079572	79572	.9363	.94	.94	1	10	7	3467	1316
16	787	PR	5	3	2017	787170079573	79573	1.8750	1.87	1.87	6	20	6	-2	1316
17	787	PR	5	3	2017	787170079577	79577	.9403	.94	.94	1	10	1	-2	1720
18	787	PR	5	3	2017	787170079578	79578	1.8750	1.87	1.87	1	10	1	68100	1212
19	787	PR	5	3	2017	787170079579	79579	.7366	.74	.74	1	10	1	68100	1212
	787	PR	5	3	2017	787170079580	79580	1.7921	1.79	1.79	4	20	4	33	1212
	787	PR	5	3	2017	787170079581	79581	.9403	.94	.94	6	20	6	68100	1316
	787	PR	5	3	2017	787170079582	79582	1.3092	1.31	1.31	1	10	1	68100	1212
	787	PR	5	3	2017	787170079583	79583	.7366	.74	.74	1	10	1	68100	1316
	787	PR	5	3	2017	787170079584	79584	1.7921	1.79	1.79	6	20	6	3467	1212
	787	PR	5	3	2017	787170079585	79585	.7366	.74	.74	1	10	1	68100	1316
	787	PR	5	3	2017	787170079596	79596	.7054	.71	.71	3	30	3	3467	0
	787	PR	5	3	2017	787170079597	79597	.9403	.94	.94	1	10	7	-2	1212

Data View Variable View

IBM SPSS Statistics Processor is ready | Thursday, April 4, 2019 | 8:44 PM 4/4/2019



# Variable View

GEM 2017 APS Puerto Rico Individual Level Data\_UPR.sav [DataSet3] - IBM SPSS Statistics Data Editor

	Name	Type	Width	Label	Values	Decimals	Missing	Columns	Measure	Align
208	TEATECH	Numeric	2	TEA: Were the technologies or procedures available more than a year ago?	{1, Very latest technology (n...	0	None	8	Scale	Right
209	EB_TECH	Numeric	2	EB: Were the technologies or procedures available more than a year ago?	{1, Very latest technology (n...	0	None	8	Scale	Right
210	TEA17NTC	Numeric	2	TEA: new technology	{0, No indication}...	0	-2	8	Scale	Right
211	EB_17NTC	Numeric	2	EB: new technology	{0, No indication}...	0	-2	8	Scale	Right
212	TEAHITEC	Numeric	2	TEA: Technology level of the sector	{0, No/low technologies}...	0	-2	10	Scale	Right
213	EB_HITEC	Numeric	2	EB: Technology level of the sector	{0, No/low technologies}...	0	-2	10	Scale	Right
214	TEA17TEC	Numeric	2	TEA: Technology sector	{0, No/low technology secto...	0	-2	10	Scale	Right
215	EB_17TEC	Numeric	2	EB: Technology sector	{0, No/low technology secto...	0	-2	10	Scale	Right
216	TEA17NPM	Numeric	2	TEA: new product market combination	{0, No indication}...	0	-2	8	Scale	Right
217	EB_17NPM	Numeric	2	EB: new product market combination	{0, No indication}...	0	-2	8	Scale	Right
218	TEA17JNW	Numeric	2	TEA: current number of jobs, 4 categories	{1, No job}...	0	-1, -2, -3	8	Scale	Right
219	EB_17JNW	Numeric	2	EB: current number of jobs, 4 categories	{1, No job}...	0	-1, -2, -3	8	Scale	Right
220	TEA17J5Y	Numeric	2	TEA: expected number of jobs, 4 categories	{1, No job}...	0	-1, -2, -3	8	Scale	Right
221	EB_17J5Y	Numeric	2	EB: expected number of jobs, 4 categories	{1, No job}...	0	-1, -2, -3	8	Scale	Right
222	TEAJOBGR	Numeric	2	TEA: Expected job growth (persons) in 5 years	None	0	-1, -2, -3	8	Scale	Right
223	EB_JOBGR	Numeric	2	EB: Expected job growth (persons) in 5 years	None	0	-1, -2, -3	8	Scale	Right
224	TEAJOBGP	Numeric	2	TEA: Expected job growth (percentage) in 5 years	None	0	-1, -2, -3	8	Scale	Right
225	EB_JOBGP	Numeric	2	EB: Expected job growth (percentage) in 5 years	None	0	-1, -2, -3	8	Scale	Right
226	TEA17JOB	Numeric	2	TEA: Exp. job growth >=10 persons and >=50 percent	{0, No}...	0	-2	8	Scale	Right
227	EB_17JOB	Numeric	2	EB: Exp. job growth >=10 persons and >=50 percent	{0, No}...	0	-2	8	Scale	Right
228	SU_JOB5Y	Numeric	8	SU: expected number of jobs in 5 years	None	0	-1, -2, -3	8	Scale	Right
229	BB_JOB5Y	Numeric	2	BB: expected number of jobs in 5 years	None	0	-1, -2, -3	8	Scale	Right
230	EB_JOB5Y	Numeric	2	EB: expected number of jobs in 5 years	None	0	-1, -2, -3	8	Scale	Right
231	SU_JOB5Y	Numeric	2	SU: number of jobs now	None	0	-1, -2, -3	8	Scale	Right
232	BB_JOB5Y	Numeric	2	BB: number of jobs now	None	0	-1, -2, -3	8	Scale	Right
233	EB_JOB5Y	Numeric	2	EB: number of jobs now	None	0	-1, -2, -3	8	Scale	Right
234	SU_OWNER	Numeric	3	SU: number of owners	None	0	-1, -2, -3	8	Scale	Right
235	BB_OWNER	Numeric	3	BB: number of owners	None	0	-1, -2, -3	8	Scale	Right
236	EB_OWNER	Numeric	3	EB: number of owners	None	0	-1, -2, -3	8	Scale	Right

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode ON

Windows taskbar showing icons for File Explorer, Edge, Word, PowerPoint, Chrome, and other applications. System tray shows Speakers: 7%, 8:46 PM, and 4/4/2019.

# Ponderaciones o pesos (“Weights”)

- GEM recomienda que se utilicen los pesos en todo análisis que se efectúe con datos individuales del APS.
- El propósito de las ponderaciones es que la muestra seleccionada sea una mejor representación de la población.
- La distribución de edad/género con los pesos debe ser representativa de la población del país.
- En Puerto Rico, las ponderaciones son calculadas en base a la edad, género y región geográfica utilizando los datos del Censo.



# Pesos, Cont.

- **WEIGHT\_L**

- Utilice para población adulta de 18 a 64 años (L = Labor Force).

- **WEIGHT\_A**

- Utilice para población adulta de 18 a 99 años (A = Adults)

- Si el país solo recolectó datos para las edades de 18 a 64 años, **WEIGHT\_L = WEIGHT\_A**.





# Para incluir los pesos en el análisis:

GEM 2017 APS Puerto Rico Individual Level Data\_UPR.sav [DataSet3] - IBM SPSS Statistics Data Editor

File Edit View **Data** Transform Analyze Graphs Utilities Extensions Window Help

1: SUB

Visible: 265 of 265 Variables

	yrsurv	setid	ID	weight	WEIGHT_L	WEIGHT_A	GEMWORK	GEMWORK_3	GEMOCCU	GEMHHINC	GEMEDUC
1	2017	787170079534	79534	.7054	.71	.71	2	10	2	3467	1316
2	2017	787170079535	79535	.7366	.74	.74	1	10	1	68100	1316
3	2017	787170079536	79536	2.6489	2.65	2.65	1	10	1	68100	1316
4	2017	787170079537	79537	.9403	.94	.94	1	10	7	68100	1316
5	2017	787170079538	79538	.6519	.65	.65	4	20	4	3467	1316
6	2017	787170079559	79559	.9363	.94	.94	3	30	3	68100	1212
7	2017	787170079560	79560	.7366	.74	.74	3	30	3	33	1212
8	2017	787170079561	79561	.7366	.74	.74	1	10	1	68100	1720
9	2017	787170079562	79562	1.8750	1.87	1.87	6	20	6	3467	1316
10	2017	787170079565	79565	.7054	.71	.71	1	10	7	33	1316
11	2017	787170079566	79566	.9363	.94	.94	3	30	3	3467	111
12	2017	787170079567	79567	.7054	.71	.71	1	10	1	3467	1212
13	2017	787170079568	79568	.8415	.84	.84	1	10	1	3467	1316
14	2017	787170079569	79569	.9403	.94	.94	1	10	1	3467	1316
15	2017	787170079572	79572	.9363	.94	.94	1	10	7	3467	1316
16	2017	787170079573	79573	1.8750	1.87	1.87	6	20	6	-2	1316
17	2017	787170079577	79577	.9403	.94	.94	1	10	1	-2	1720
18	2017	787170079578	79578	1.8750	1.87	1.87	1	10	1	68100	1212
19	2017	787170079579	79579	.7366	.74	.74	1	10	1	68100	1212
20	2017	787170079580	79580	1.7921	1.79	1.79	4	20	4	33	1212
21	2017	787170079581	79581	.9403	.94	.94	6	20	6	68100	1316
22	2017	787170079582	79582	1.3092	1.31	1.31	1	10	1	68100	1212
23	2017	787170079583	79583	.7366	.74	.74	1	10	1	68100	1316
24	2017	787170079584	79584	1.7921	1.79	1.79	6	20	6	3467	1212
25	2017	787170079585	79585	.7366	.74	.74	1	10	1	68100	1316
26	2017	787170079596	79596	.7054	.71	.71	3	30	3	3467	0
27	2017	787170079597	79597	.9403	.94	.94	1	10	7	-2	1212

Weight Cases...

IBM SPSS Statistics Processor is ready Unicode: ON

9:14 PM 4/4/2019





Weight Cases



- Harmonization ID [...]
- Unique Responde...
- Country-supplied w...
- Weight for 18-99 ad...
- GEMWORK. GEM h...
- GEMWORK3. GEM ...
- GEMOCCU. GEM h...
- GEMHHINC. GEM i...
- GEMEDLIC. GEM h

Do not weight cases

Weight cases by



Frequency Variable:

Weight for 18-64 labo...

Current Status: Do not weight cases

OK

Paste

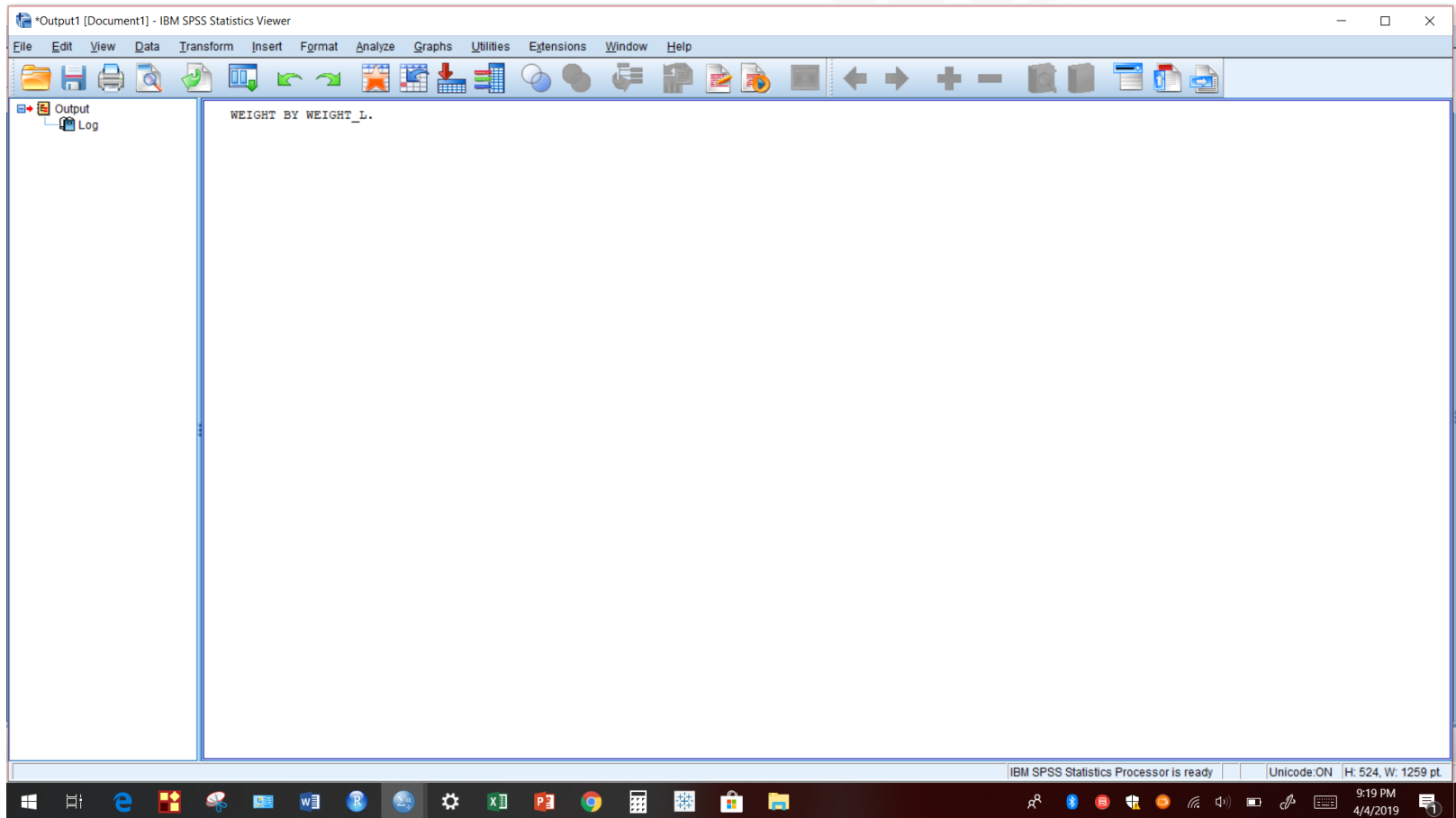
Reset

Cancel

Help



Se abre una nueva pantalla donde estarán todos los resultados de los análisis efectuados en la sesión:



# Todos los métodos estadísticos están en “Analyze”

The screenshot displays the SPSS software interface. The 'Analyze' menu is open, showing a list of statistical methods. The data table below the menu has columns for 'country' and 'ctryalp', with values '787' and 'PR' respectively for rows 1 through 17. The 'setid' column contains unique identifiers for each row.

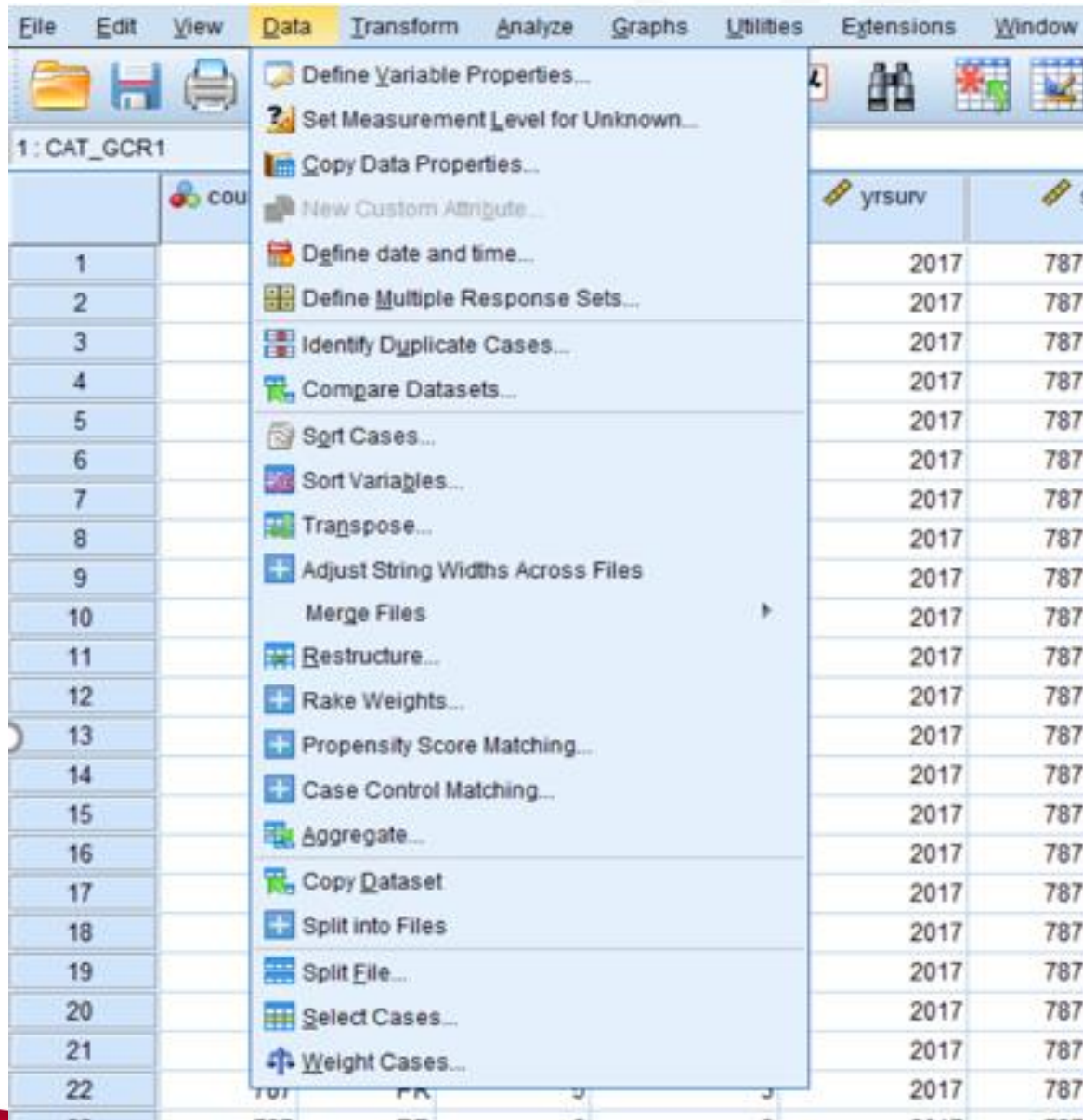
	country	ctryalp	setid
1	787	PR	787170079534
2	787	PR	787170079535
3	787	PR	787170079536
4	787	PR	787170079537
5	787	PR	787170079538
6	787	PR	787170079559
7	787	PR	787170079560
8	787	PR	787170079561
9	787	PR	787170079562
10	787	PR	787170079565
11	787	PR	787170079566
12	787	PR	787170079567
13	787	PR	787170079568
14	787	PR	787170079569
15	787	PR	787170079572
16	787	PR	787170079573
17	787	PR	787170079577

The 'Analyze' menu includes the following options:

- Reports
- Descriptive Statistics
- Compare Means
- General Linear Model
- Generalized Linear Models
- Mixed Models
- Correlate
- Regression
- Loglinear
- Classify
- Dimension Reduction
- Scale
- Nonparametric Tests
- Forecasting
- Survival
- Multiple Response
- Simulation...
- Quality Control
- ROC Curve...
- Spatial and Temporal Modeling...



# Manejo de datos en "Data"

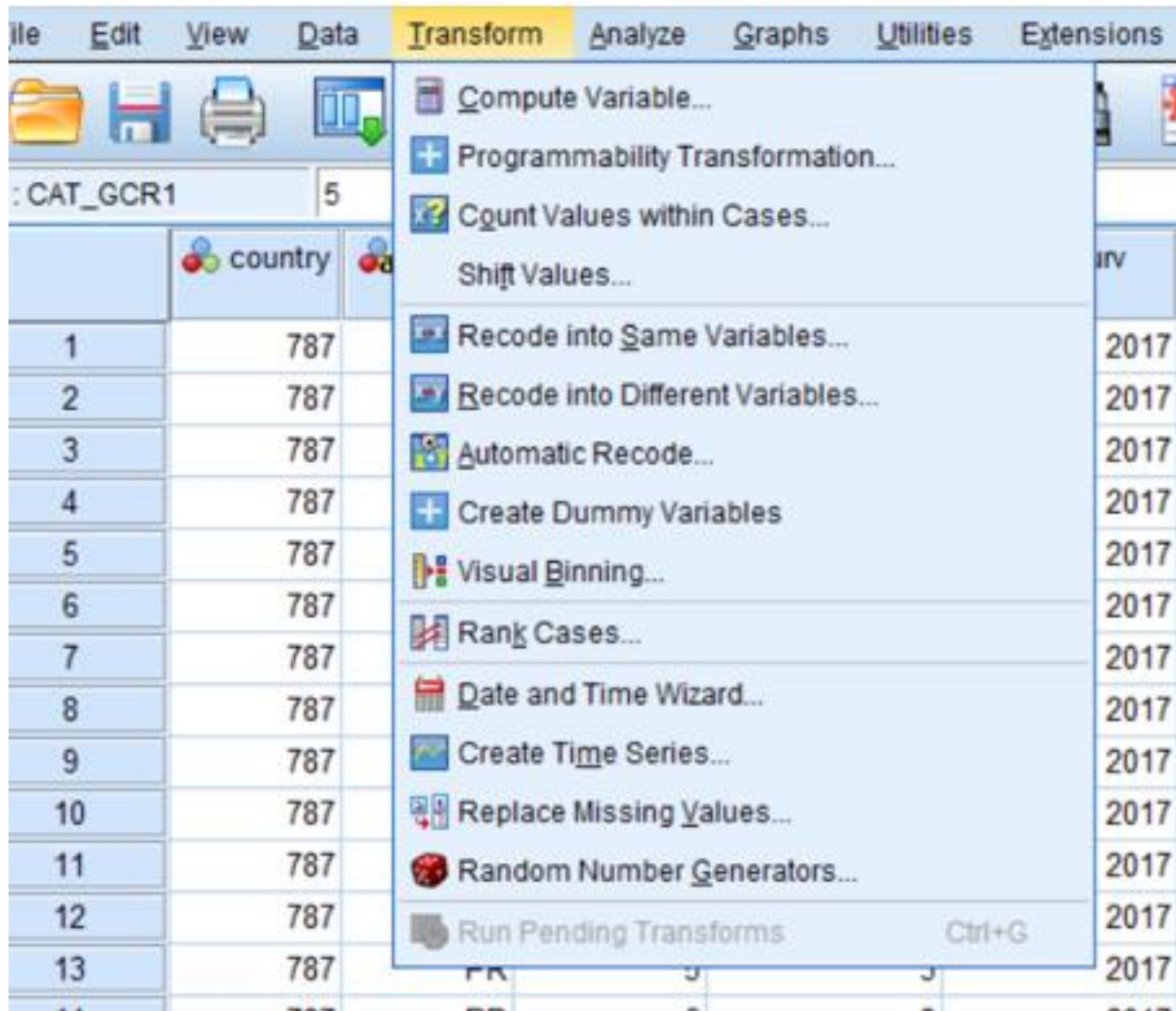


The image shows a screenshot of the SPSS software interface. The 'Data' menu is open, displaying a list of data management options. The background shows a data editor window with a table containing columns for 'COU' and 'yrsurv', and rows numbered 1 through 22. The 'Data' menu options include: Define Variable Properties..., Set Measurement Level for Unknown..., Copy Data Properties..., New Custom Attribute..., Define date and time..., Define Multiple Response Sets..., Identify Duplicate Cases..., Compare Datasets..., Sort Cases..., Sort Variables..., Transpose..., Adjust String Widths Across Files, Merge Files, Restructure..., Rake Weights..., Propensity Score Matching..., Case Control Matching..., Aggregate..., Copy Dataset, Split into Files, Split File..., Select Cases..., and Weight Cases...

Row	COU	yrsurv	787'
1		2017	787'
2		2017	787'
3		2017	787'
4		2017	787'
5		2017	787'
6		2017	787'
7		2017	787'
8		2017	787'
9		2017	787'
10		2017	787'
11		2017	787'
12		2017	787'
13		2017	787'
14		2017	787'
15		2017	787'
16		2017	787'
17		2017	787'
18		2017	787'
19		2017	787'
20		2017	787'
21		2017	787'
22		2017	787'



# ...y en “Transform”



The image shows a screenshot of the SPSS software interface. The 'Transform' menu is open, displaying a list of data transformation options. The background shows a data editor window with a table containing a 'country' variable and a column of '2017' values.

	country	
1	787	2017
2	787	2017
3	787	2017
4	787	2017
5	787	2017
6	787	2017
7	787	2017
8	787	2017
9	787	2017
10	787	2017
11	787	2017
12	787	2017
13	787	2017

- Compute Variable...
- Programmability Transformation...
- Ccount Values within Cases...
- Shift Values...
- Recode into Same Variables...
- Recode into Different Variables...
- Automatic Recode...
- Create Dummy Variables
- Visual Binning...
- Rank Cases...
- Date and Time Wizard...
- Create Time Series...
- Replace Missing Values...
- Random Number Generators...
- Run Pending Transforms Ctrl+G

# Variables

## Nombre

## Descripción

*FUTSUP17*

Intención de emprender

*TEA17*

Índice TEA

*TEA17STA*

Stage TEA

*ESTBBUSO*

Emprendimientos establecidos

*gender*

género

*age*

edad

*GEMEDUC*

nivel educativo

*GEMHHINC*

ingreso codificado en tercios





# Frecuencias y gráficas

\*GEM 2017 APS Puerto Rico Individual Level Data\_LPR.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

1: CAT\_GCR1 5

country ctryalp

1 787 PR  
2 787 PR  
3 787 PR  
4 787 PR  
5 787 PR  
6 787 PR  
7 787 PR  
8 787 PR  
9 787 PR  
10 787 PR  
11 787 PR  
12 787 PR  
13 787 PR  
14 787 PR  
15 787 PR  
16 787 PR  
17 787 PR  
18 787 PR  
19 787 PR  
20 787 PR  
21 787 PR  
22 787 PR  
23 787 PR  
24 787 PR  
25 787 PR  
26 787 PR  
27 787 PR

Reports  
Descriptive Statistics  
Compare Means  
General Linear Model  
Generalized Linear Models  
Mixed Models  
Correlate  
Regression  
Loglinear  
Classify  
Dimension Reduction  
Scale  
Nonparametric Tests  
Forecasting  
Survival  
Multiple Response  
Simulation...  
Quality Control  
ROC Curve...  
Spatial and Temporal Modeling...

Frequencies...  
Descriptives...  
Explore...  
Crosstabs...  
TURF Analysis  
Ratio...  
P-P Plots...  
Q-Q Plots...

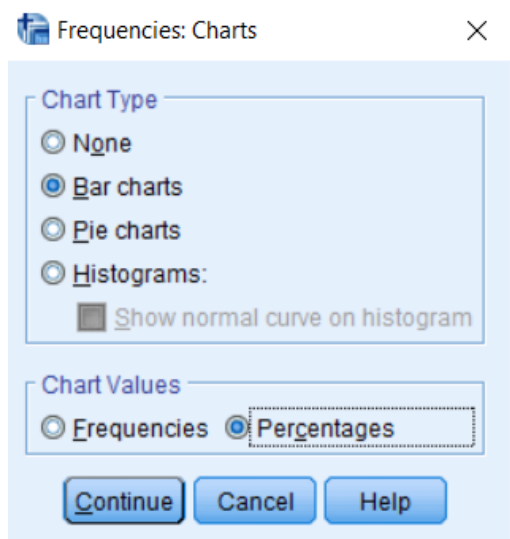
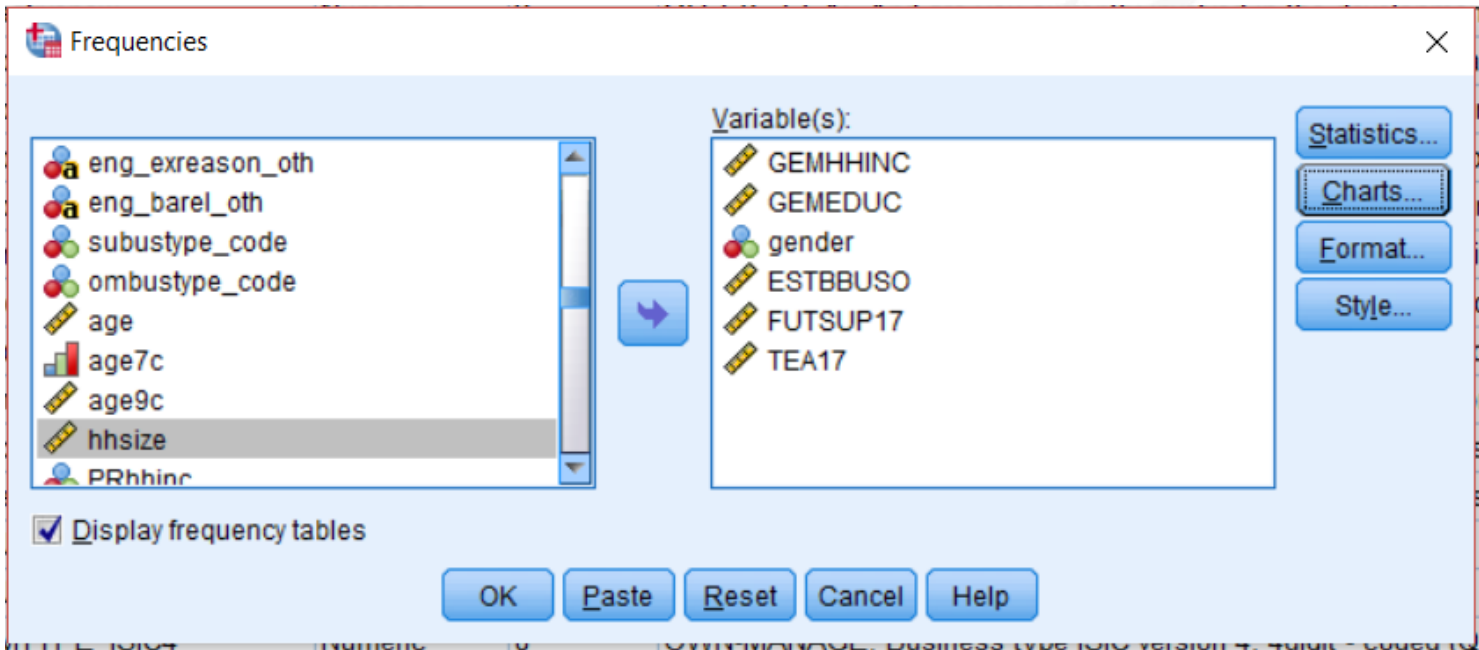
ID	weight	WEIGHT_L	WEIGHT_A	GEMWORK_2	GEMWORK_3	GEMOCCU	GEMHINC	GEMEDUC	
79534	7054	.71	.71	2	10	2	3467	1316	
79535	7366	.74	.74	1	10	1	68100	1316	
79536	26489	2.65	2.65	1	10	1	68100	1316	
79537	9403	.94	.94	1	10	7	68100	1316	
79538	6519	.65	.65	4	20	4	3467	1316	
79559	9363	.94	.94	3	30	3	68100	1212	
787170079560	79560	.74	.74	3	30	3	33	1212	
787170079561	79561	.74	.74	1	10	1	68100	1720	
787170079562	79562	1.8750	1.87	6	20	6	3467	1316	
787170079565	79565	7054	.71	.71	1	10	7	33	1316
787170079566	79566	9363	.94	.94	3	30	3	3467	111
787170079567	79567	7054	.71	.71	1	10	1	3467	1212
787170079568	79568	8415	.84	.84	1	10	1	3467	1316
787170079569	79569	9403	.94	.94	1	10	1	3467	1316
787170079572	79572	9363	.94	.94	1	10	7	3467	1316
787170079573	79573	1.8750	1.87	1.87	6	20	6	-2	1316
787170079577	79577	9403	.94	.94	1	10	1	-2	1720
787170079578	79578	1.8750	1.87	1.87	1	10	1	68100	1212
787170079579	79579	7366	.74	.74	1	10	1	68100	1212
787170079580	79580	1.7921	1.79	1.79	4	20	4	33	1212
787170079581	79581	9403	.94	.94	6	20	6	68100	1316
787170079582	79582	1.3092	1.31	1.31	1	10	1	68100	1212
787170079583	79583	7366	.74	.74	1	10	1	68100	1316
787170079584	79584	1.7921	1.79	1.79	6	20	6	3467	1212
787170079585	79585	7366	.74	.74	1	10	1	68100	1316
787170079596	79596	7054	.71	.71	3	30	3	3467	0
79597	9403	.94	.94	1	10	7	-2	1212	

Data View Variable View

Frequencies...

IBM SPSS Statistics Processor is ready Unicode ON Weight On





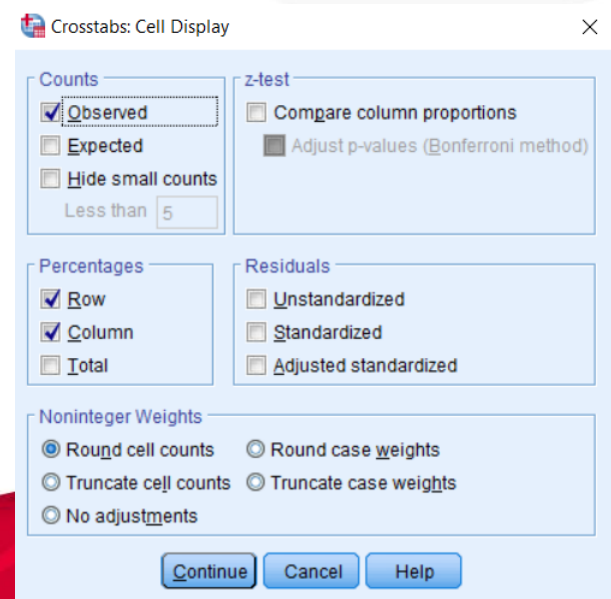
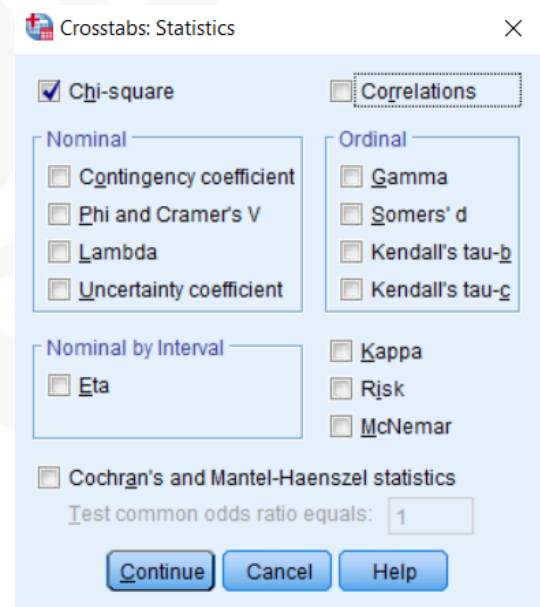
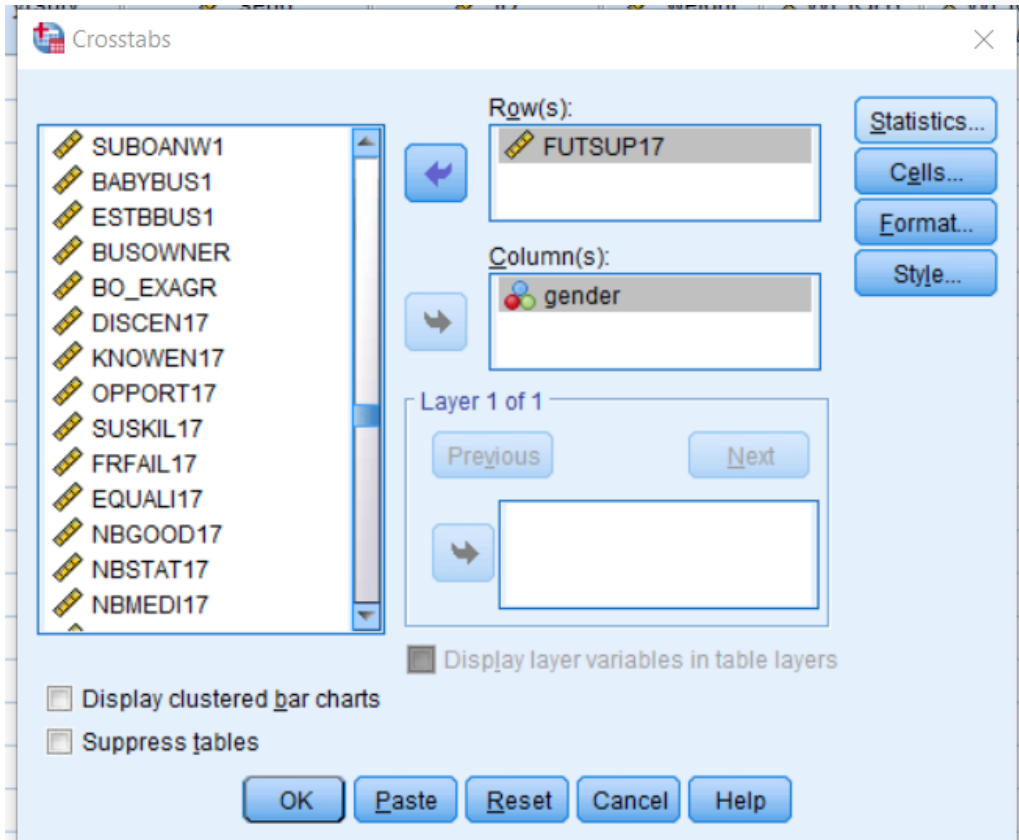
# Tablas cruzadas

The screenshot shows the IBM SPSS Statistics Data Editor interface. The title bar reads '\*GEM 2017 APS Puerto Rico Individual Level Data\_UPR.sav [DataSet3] - IBM SPSS Statistics Data Editor'. The menu bar includes File, Edit, View, Data, Transform, **Analyze**, Graphs, Utilities, Extensions, Window, and Help. The 'Analyze' menu is open, showing options like Reports, Descriptive Statistics, Compare Means, General Linear Model, Generalized Linear Models, Mixed Models, Correlate, Regression, Loglinear, Classify, Dimension Reduction, Scale, Nonparametric Tests, Forecasting, Survival, Multiple Response, and Simulation. The 'Crosstabs...' option is highlighted. The data editor window shows a table with columns 'country' and 'ctryalp', and rows numbered 1 to 12, all with values 787 and PR respectively. The 'Crosstabs...' dialog box is also visible, showing 'Erequencies...', 'Descriptives...', 'Explore...', 'Crosstabs...', 'TURF Analysis', 'Ratio...', 'P-P Plots...', and 'Q-Q Plots...'.

	country	ctryalp
1	787	PR
2	787	PR
3	787	PR
4	787	PR
5	787	PR
6	787	PR
7	787	PR
8	787	PR
9	787	PR
10	787	PR
11	787	PR
12	787	PR



# Tabla cruzada entre intención de emprender y género



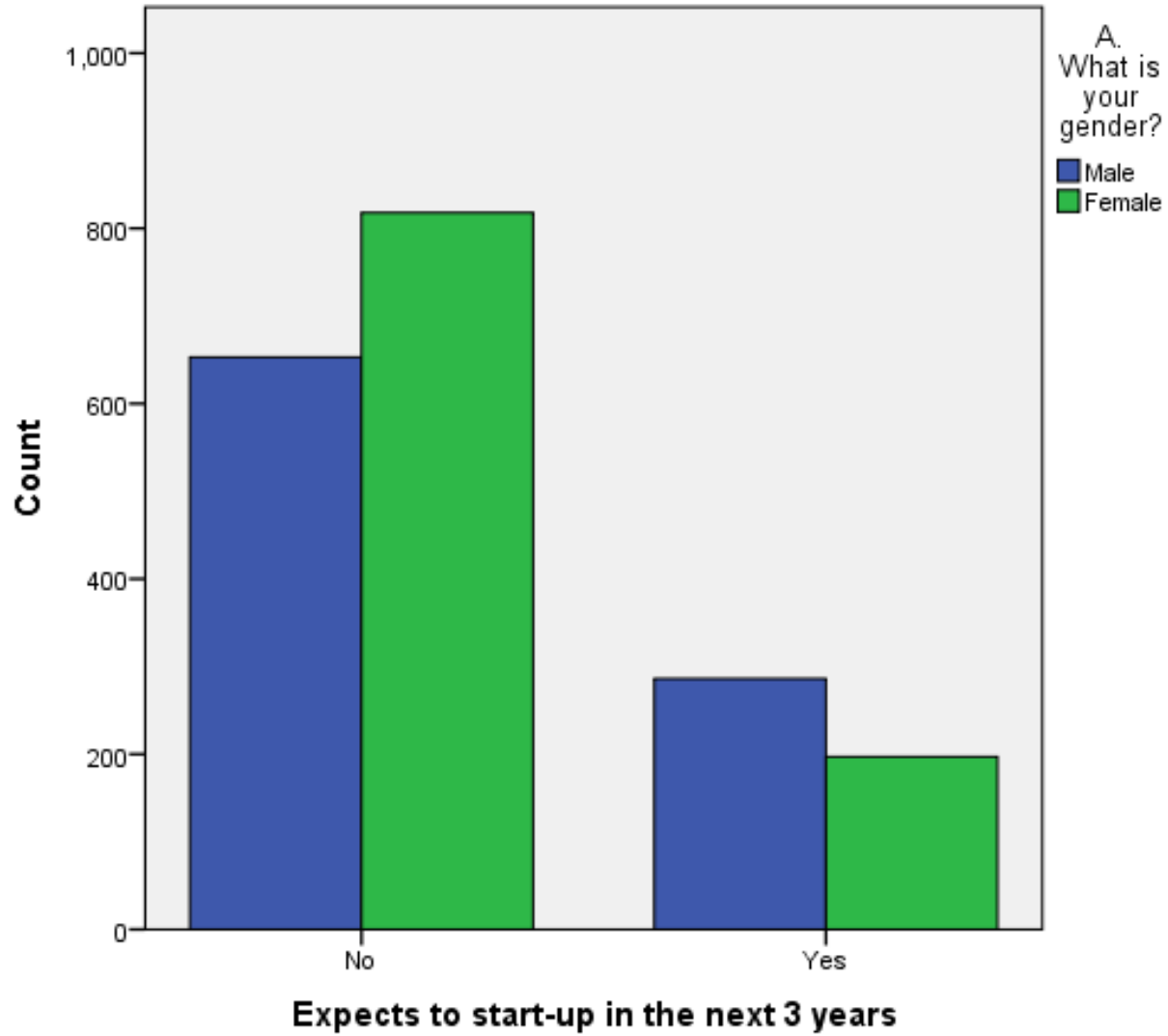


## Expects to start-up in the next 3 years \* A. What is your gender? Crosstabulation

			A. What is your gender?		Total
			Male	Female	
Expects to start-up in the next 3 years	No	Count	653	818	1471
		% within Expects to start-up in the next 3 years	44.4%	55.6%	100.0%
		% within A. What is your gender?	69.5%	80.6%	75.3%
	Yes	Count	286	197	483
		% within Expects to start-up in the next 3 years	59.2%	40.8%	100.0%
		% within A. What is your gender?	30.5%	19.4%	24.7%
Total	Count	939	1015	1954	
	% within Expects to start-up in the next 3 years	48.1%	51.9%	100.0%	
	% within A. What is your gender?	100.0%	100.0%	100.0%	



Bar Chart



A.  
What is  
your  
gender?  
■ Male  
■ Female



### Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2- sided)	Exact Sig. (1- sided)
Pearson Chi-Square	32.000 <sup>a</sup>	1	.000		
Continuity Correction <sup>b</sup>	31.409	1	.000		
Likelihood Ratio	32.084	1	.000		
Fisher's Exact Test				.000	.000
Linear-by-Linear Association	31.983	1	.000		
N of Valid Cases	1954				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 232.11.

b. Computed only for a 2x2 table





# Tabla cruzada entre intención de emprender y género para emprendedores del TEA

The screenshot shows the SPSS 'Analyze' menu with 'Crosstabs...' selected. The 'Crosstabs' dialog box is open, showing the following configuration:

- Row(s):** FUTSUP17
- Column(s):** gender
- Layer 1 of 1:** TEA17

Additional options in the dialog box include:

- Display clustered bar charts
- Suppress tables
- Display layer variables in table layers

Buttons at the bottom of the dialog box include: OK, Paste, Reset, Cancel, Help.

ID	weight	WEIGHT_	WEIGHT_	GEMWORK	GEMW
787170079559					
787170079560					
787170079561					
787170079562					
787170079565					
787170079566					
787170079567					
787170079568					
787170079569					
787170079572					
787170079573					
787170079577					
787170079578					
787170079579					

**Expects to start-up in the next 3 years \* A. What is your gender? \* Involved in Total early-stage Entrepreneurial Activity Crosstabulation**

Involved in Total early-stage Entrepreneurial Activity				A. What is your gender?		Total
				Male	Female	
No	Expects to start-up in the next 3 years	No	Count	627	803	1430
			% within Expects to start-up in the next 3 years	43.8%	56.2%	100.0%
			% within A. What is your gender?	77.0%	85.4%	81.5%
		Yes	Count	187	137	324
			% within Expects to start-up in the next 3 years	57.7%	42.3%	100.0%
			% within A. What is your gender?	23.0%	14.6%	18.5%
	Total	Count	814	940	1754	
		% within Expects to start-up in the next 3 years	46.4%	53.6%	100.0%	
		% within A. What is your gender?	100.0%	100.0%	100.0%	
Yes	Expects to start-up in the next 3 years	No	Count	28	19	47
			% within Expects to start-up in the next 3 years	59.6%	40.4%	100.0%
			% within A. What is your gender?	22.8%	23.5%	23.0%
		Yes	Count	95	62	157
			% within Expects to start-up in the next 3 years	60.5%	39.5%	100.0%
			% within A. What is your gender?	77.2%	76.5%	77.0%
	Total	Count	123	81	204	
		% within Expects to start-up in the next 3 years	60.3%	39.7%	100.0%	



# “Split file” : “Compare groups”

The screenshot displays the SPSS 'Split File' dialog box. The 'Compare groups' radio button is selected. The variable 'GEMEDUC' is listed in the 'Groups Based on:' field. The 'Sort the file by grouping variables' radio button is also selected. The 'Current Status' is 'Compare:GEMEDUC'. The background shows a data table with the following columns: yrsurv, setid, ID, weight, and WEIG L.

yrsurv	setid	ID	weight	WEIG L
2017	787170079747	79747	1.3092	
2017	787170080604	80604	.8182	
2017	787170081233	81233	1.0568	
2017	787170082136	82136	.8182	
2017	787170082723	82723	.5843	



Analyze Graphs Utilities Extensions Window Help

Reports  
**Descriptive Statistics**  
 Compare Means  
 General Linear Model  
 Generalized Linear Models  
 Mixed Models  
 Correlate  
 Regression  
 Loglinear  
 Classify  
 Dimension Reduction  
 Scale  
 Nonparametric Tests  
 Forecasting  
 Survival  
 Multiple Response  
 Simulation...  
 Quality Control  
 ROC Curve...  
 Spatial and Temporal Modeling...

Frequencies...  
 Descriptives...  
 Explore...  
 Crosstabs...  
 TURF Analysis  
 Ratio...  
 P-P Plots...  
 Q-Q Plots...

ID	weight	WEIGHT_L	WEIGHT_A	GEMWORK	GEMV
79747	1.3092	1.31	1.31	4	
80604	.8182	.82	.82	4	
81233	1.0568	1.06	1.06	1	
82136	.8182	.82	.82	3	
82723	.5843	.58	.58	1	

country  
 ctryalp  
 CAT\_GCR1  
 CAT\_GCR2  
 yrsurv  
 setid  
 ID  
 weight  
 WEIGHT\_1

Variable(s):

- GEMHHINC
- gender
- age7c
- ESTBBUSO
- FUTSUP17
- TEA17

Display frequency tables

## Frequency Table

GEMHHINC. GEM income recoded into thirds						
GEMEDUC. GEM harmonized educational attainment			Frequency	Percent	Valid Percent	Cumulative Percent
CAN NOT CODE	Valid	Lowest 33%tile	1	28.5	55.3	55.3
		Upper 33%tile	1	23.0	44.7	100.0
		Total	2	51.6	100.0	
	Missing	Miss/cannot code	2	48.4		
	Total		5	100.0		
NONE	Valid	Lowest 33%tile	72	55.3	59.6	59.6
		Middle 33%tile	41	31.7	34.2	93.7
		Upper 33%tile	8	5.8	6.3	100.0
		Total	121	92.8	100.0	
	Missing	Miss/cannot code	9	7.2		
Total		130	100.0			
SOME SECONDARY	Valid	Lowest 33%tile	83	57.1	67.3	67.3
		Middle 33%tile	34	23.3	27.4	94.6
		Upper 33%tile	7	4.5	5.4	100.0
		Total	124	84.9	100.0	
	Missing	Miss/cannot code	22	15.1		
Total		146	100.0			
SECONDARY DEGREE	Valid	Lowest 33%tile	242	39.0	44.7	44.7
		Middle 33%tile	181	29.1	33.4	78.1
		Upper 33%tile	118	19.0	21.9	100.0
		Total	541	87.2	100.0	
	Missing	Miss/cannot code	80	12.8		
Total		620	100.0			



# “Split file” : “Output by groups”

The screenshot shows the SPSS software interface. The 'Data' menu is open, and 'Split File...' is highlighted. The 'Split File' dialog box is open, showing a list of variables on the left and options on the right. The 'Organize output by groups' option is selected, and 'GEMEDUC' is entered in the 'Groups Based on:' field. The 'Current Status' is 'Compare:GEMEDUC'.

yrsvrv	setid	ID	weight	W
2017	787170079747	79747	1.3092	
2017	787170080604	80604	.8182	
2017	787170081233	81233	1.0568	
2017	787170082136	82136	.8182	
2017	787170082723	82723	.5843	
2017	787170079596	79596	.7054	

Split File

country  
ctryalp  
CAT\_GCR1  
CAT\_GCR2  
yrsvrv  
setid  
ID  
weight  
WEIGHT\_L  
WEIGHT\_A  
GEMEDUC

Analyze all cases, do not create groups  
 Compare groups  
 Organize output by groups

Groups Based on:  
GEMEDUC

Sort the file by grouping variables  
 File is already sorted

Current Status: Compare:GEMEDUC

OK Paste Reset Cancel Help



# “Data”: “Select Cases”

The screenshot displays the SPSS 'Data' menu with 'Select Cases...' highlighted. The 'Select Cases' dialog box is open, showing the following configuration:

- Select:**  If condition is satisfied
- Condition:** If... TEA17 = 1
- Output:**  Filter out unselected cases

The background shows a data table with the following columns: yrsurv, setid, ID, weight, and WEIGHT\_L.

yrsurv	setid	ID	weight	WEIGHT_L
2017	787170079747	79747	1.3092	1.31
2017	787170080604	80604	.8182	.82



# “Select cases”, cont.

The image displays two overlapping SPSS dialog boxes for selecting cases. The left window, titled "Select Cases", shows the "Select" tab with the "If condition is satisfied" radio button selected. The "Output" section has "Filter out unselected cases" selected. The right window, titled "Select Cases: If", shows the condition "TEA17 = 1" entered in the text box. A list of variables is shown on the left, with "TEA17" selected. A numeric keypad is visible in the center, and a list of function groups is on the right.

**Select Cases Dialog (Left Window):**

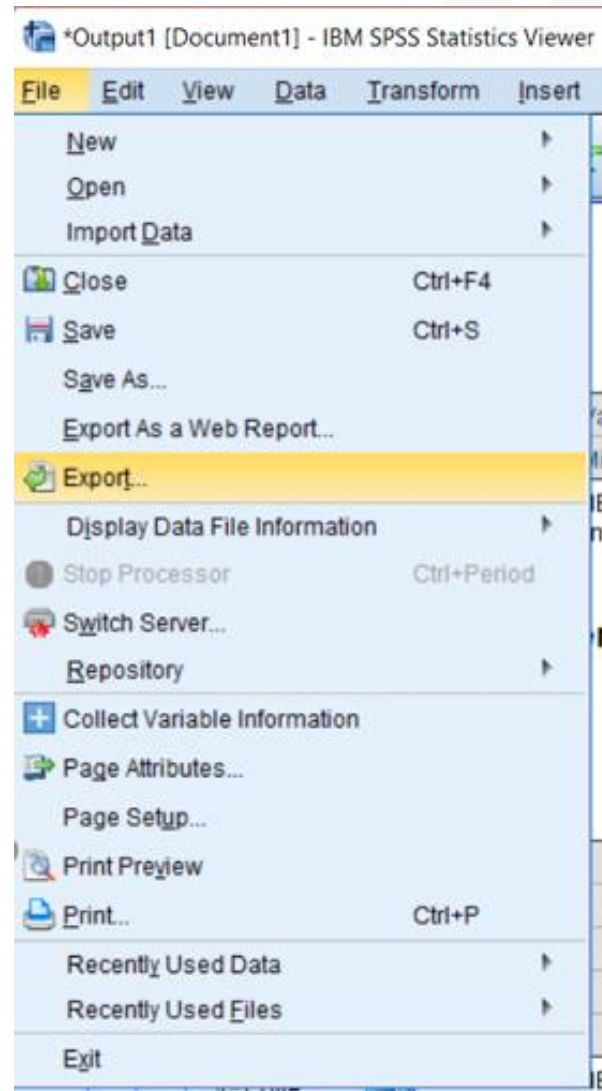
- Select:**
  - All cases
  - If condition is satisfied
  - Random sample of cases
  - Based on time or case range
  - Use filter variable:
- Output:**
  - Filter out unselected cases
  - Copy selected cases to a new dataset
  - Delete unselected cases

**Select Cases: If Dialog (Right Window):**

- Condition:** TEA17 = 1
- Function group:** All, Arithmetic, CDF & Noncentral CD, Conversion, Current Date/Time, Date Arithmetic, Date Creation
- Functions and Special:** (Empty list)



# Exportar resultados a Word





UPR RP LA IUPI