```
 PRESERVE.
 SET DECIMAL COMMA.

GET DATA  /TYPE=TXT
  /FILE="C:\Users\MONSTER\Desktop\world_bank_gdp.csv"
  /ENCODING='UTF8'
  /DELIMITERS=";"
  /QUALIFIER='"'
  /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  /DATATYPEMIN PERCENTAGE=95.0
  /VARIABLES=
  countryyeargdp AUTO
  /MAP.
RESTORE.
CACHE.
EXECUTE.

Data written to the working file.
1 variables and 102 cases written.
Variable: countryyeargdp     Type: String  Format : A25

Substitute the following to build syntax for these data.
  /VARIABLES=
   countryyeargdp A25

DATASET NAME DataSet1 WINDOW=FRONT.
PRESERVE.
 SET DECIMAL COMMA.

GET DATA  /TYPE=TXT
  /FILE="C:\Users\MONSTER\Desktop\world_bank_gdp.csv"
  /ENCODING='UTF8'
  /DELIMITERS=","
  /QUALIFIER='"'
  /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  /DATATYPEMIN PERCENTAGE=95.0
  /VARIABLES=
  country AUTO
  year AUTO
  gdp AUTO
  /MAP.
RESTORE.
CACHE.
EXECUTE.

Data written to the working file.
3 variables and 102 cases written.
Variable: country            Type: String  Format : A3
Variable: year               Type: Number  Format : F4
```

```
Variable: gdp                Type: Number  Format : MTIME8.2

Substitute the following to build syntax for these data.
  /VARIABLES=
   country A3
   year F4
   gdp MTIME8.2

DATASET NAME DataSet2 WINDOW=FRONT.
DESCRIPTIVES VARIABLES=year gdp
  /STATISTICS=MEAN STDDEV MIN MAX.
```

Descriptives

Notes

Output Created		07-FEB-2025 20:57:19
Comments		
Input	Data	C: \Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	102
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=year gdp /STATISTICS=MEAN STDDEV MIN MAX.
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,00

```
 DATASET CLOSE DataSet1.
SORT CASES BY country(A) year(A).
SORT CASES  BY country.
SPLIT FILE SEPARATE BY country.
DESCRIPTIVES VARIABLES=gdp
  /STATISTICS=MIN MAX.
```

Descriptives

Notes

Output Created		07-FEB-2025 21:06:23
Comments		
Input	Data	C: \Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	country
	N of Rows in Working Data File	102
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=gdp /STATISTICS=MIN MAX.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

country = GBR

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp	34	11544629:4...	71013763:3...
Valid N (listwise)	34		

a. country = GBR

country = TUR

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp	34	892003:40....	67728376:2...
Valid N (listwise)	34		

a. country = TUR

country = USA

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp	34	1230370:...	6889059...
Valid N (listwise)	34		

a. country = USA

```
AGGREGATE
  /OUTFILE=* MODE=ADDVARIABLES
  /BREAK=country
  /gdp_mean=MEAN(gdp)
  /gdp_max=MAX(gdp)
  /gdp_min=MIN(gdp).

>Warning # 10903.  Command name: AGGREGATE
>A SPLIT FILE command is in effect but will be ignored for AGGREGATE
>processing.
AGGREGATE
  /OUTFILE=* MODE=ADDVARIABLES
  /BREAK=country
  /gdp_mean_1=MEAN(gdp)
  /gdp_max_1=MAX(gdp)
  /gdp_min_1=MIN(gdp).

>Warning # 10903.  Command name: AGGREGATE
>A SPLIT FILE command is in effect but will be ignored for AGGREGATE
>processing.
SPLIT FILE OFF.
AGGREGATE
  /OUTFILE=* MODE=ADDVARIABLES
  /BREAK=country
  /gdp_mean_2=MEAN(gdp)
  /gdp_max_2=MAX(gdp)
  /gdp_min_2=MIN(gdp).
COMPUTE gdp_diff=gdp - LAG(gdp).
EXECUTE.
COMPUTE growth_percent=(gdp_diff / LAG(gdp)) * 100.
EXECUTE.
DESCRIPTIVES VARIABLES=gdp_diff growth_percent
  /STATISTICS=MIN MAX.
```

Descriptives

Notes

Output Created		07-FEB-2025 21:29:56
Comments		
Input	Data	C:\Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	102
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=gdp_diff growth_percent /STATISTICS=MIN MAX.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

```
 SORT CASES  BY country.
SPLIT FILE SEPARATE BY country.
DESCRIPTIVES VARIABLES=gdp_diff growth_percent
  /STATISTICS=MIN MAX.
```

Descriptives

Notes

Output Created		07-FEB-2025 21:30:46
Comments		
Input	Data	C: \Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	country
	N of Rows in Working Data File	102
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=gdp_diff growth_percent /STATISTICS=MIN MAX.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

country = GBR

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp_diff	33	-2753746566	2564202683
growth_percent	33	-72,67	332,75
Valid N (listwise)	33		

a. country = GBR

country = TUR

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp_diff	34	-3848737397	2929733195
growth_percent	34	-94,71	2988,55
Valid N (listwise)	34		

a. country = TUR

country = USA

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp_diff	34	-3321816064	3640449536
growth_percent	34	-91,87	1240,53
Valid N (listwise)	34		

a. country = USA

```
DESCRIPTIVES VARIABLES=gdp gdp_diff growth_percent
  /STATISTICS=MIN MAX.
```

Descriptives

Notes

Output Created		07-FEB-2025 21:34:09
Comments		
Input	Data	C:\Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	country
	N of Rows in Working Data File	102
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	All non-missing data are used.
Syntax		DESCRIPTIVES VARIABLES=gdp gdp_diff growth_percent /STATISTICS=MIN MAX.
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,00

country = GBR

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp	34	11544629:4...	71013763:3...
gdp_diff	33	-2753746566	2564202683
growth_percent	33	-72,67	332,75
Valid N (listwise)	33		

a. country = GBR

country = TUR

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp	34	892003:40....	67728376:2...
gdp_diff	34	-3848737397	2929733195
growth_percent	34	-94,71	2988,55
Valid N (listwise)	34		

a. country = TUR

country = USA

Descriptive Statistics[a]

	N	Minimum	Maximum
gdp	34	1230370:08...	68890594:0...
gdp_diff	34	-3321816064	3640449536
growth_percent	34	-91,87	1240,53
Valid N (listwise)	34		

a. country = USA

```
GRAPH /BAR(GROUPED)=MAX(gdp) MIN(gdp) BY country.
```

Graph

Notes

Output Created		07-FEB-2025 21:43:10
Comments		
Input	Data	C:\Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	country
	N of Rows in Working Data File	102
Syntax		GRAPH /BAR(GROUPED) =MAX(gdp) MIN(gdp) BY country.
Resources	Processor Time	00:00:01,81
	Elapsed Time	00:00:11,33

country: GBR

country: TUR

country: USA

```
GRAPH /LINE(MULTIPLE)=MEAN(gdp_diff) BY country.
```
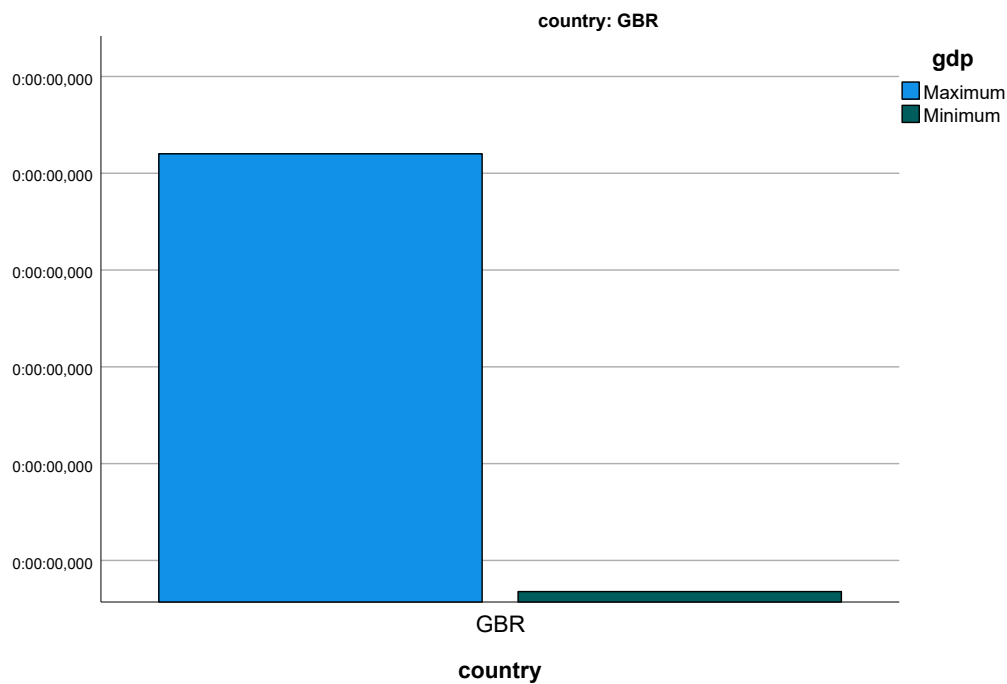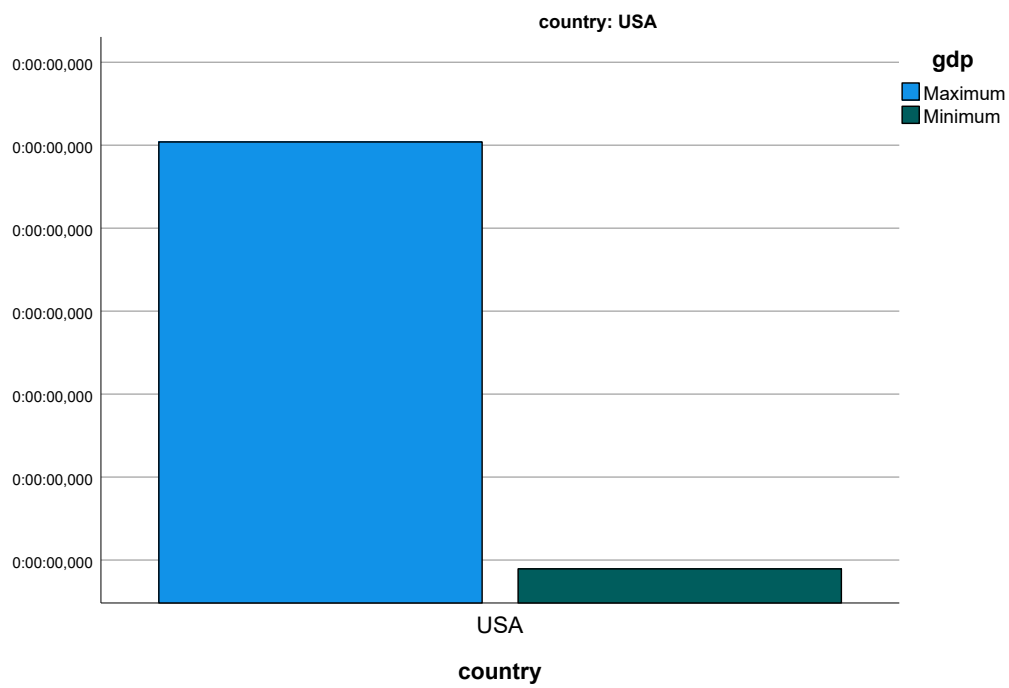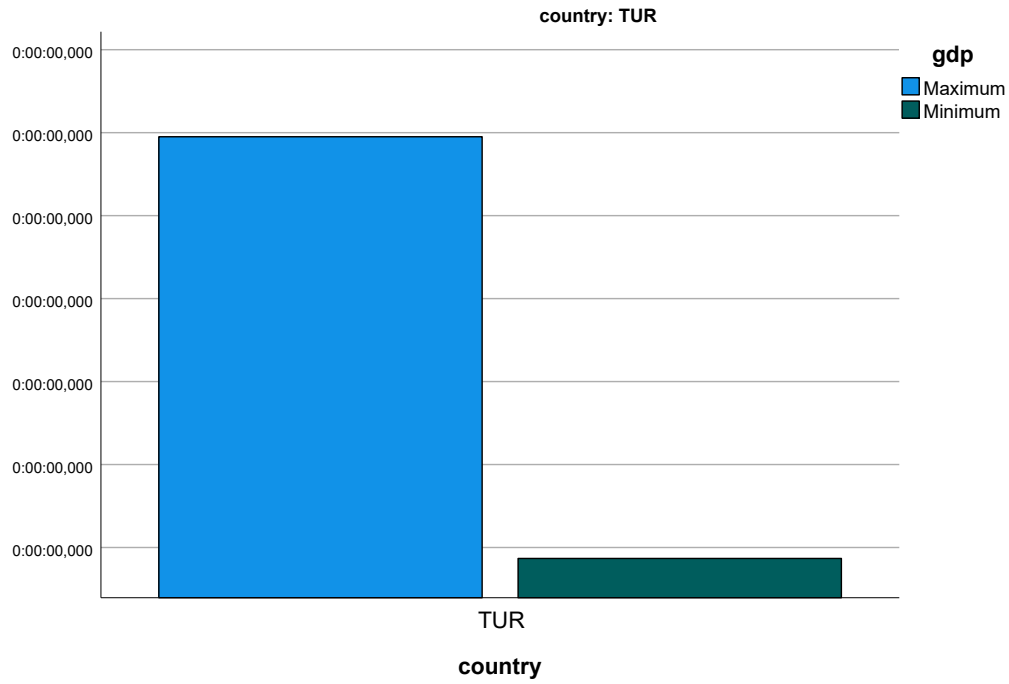
Graph

Notes

Output Created		07-FEB-2025 21:43:21
Comments		
Input	Data	C:\Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	country
	N of Rows in Working Data File	102
Syntax		GRAPH /LINE(MULTIPLE) =MEAN(gdp_diff) BY country.
Resources	Processor Time	00:00:00,31
	Elapsed Time	00:00:00,22

```
>Warning # 17849
>The requested line chart type cannot be drawn with the provided data.
>Instead, Graphics will attempt to draw a simple line chart.
```

```
GRAPH /SCATTERPLOT(BIVAR)=gdp WITH gdp_diff BY country.
```

Graph

Notes

Output Created		07-FEB-2025 21:43:22
Comments		
Input	Data	C:\Users\MONSTER\Desktop\world_bank_gdp.csv
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	country
	N of Rows in Working Data File	102
Syntax		GRAPH /SCATTERPLOT (BIVAR)=gdp WITH gdp_diff BY country.
Resources	Processor Time	00:00:00,33
	Elapsed Time	00:00:00,23

country: GBR

country: TUR

country: USA