Рад у програму SPSS

Приликом отварања софтвера, појављује се прозор који нуди опцију отварања већ постојошег документа. Потребно је одабрати опцију *Open an existing data source* а потом одабрати *More files* (Слика 1). У пољу *Files of type* одабрати опцију *Excel*, а затим отворити жељени фајл. Након одабира жељеног фајла појављује се прозор као на слици 3 који већ нуди параметре отварања и овде није потребно ништа подешавати, већ само одабрати опцију *Ok*.

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Слика 1 Покретање софтвера

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Слика 2 Одабир документа

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Слика 3 Отварање документа

Дескриптивна статистика

Податке дескриптивне статистике добија се одабиром картице Analyze/Descriptive Statistics/Descriptives (слика 4) и тиме нам се отвара прозор Descriptives где бирамо променљиве које желимо да уврстимо у анализу (слика 5), а кликом на дугме Options бирамо вредности које

желимо да израчунамо (слика 6). Резултате добијамо у новом прозору, а двоклик на табелу са резултатима омогућава нам да направимо дијаграм од података добијених у табели.

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Слика 4 Descriptives



🚔 Descriptives: Options **v** <u>M</u>ean Sum Sum -Dispersion-**V** Std. deviation **V** Mi<u>n</u>imum Variance 🖌 Maximum **V** S.<u>E</u>. mean 🗸 <u>R</u>ange -Distribution 🖌 <u>K</u>urtosis Ske<u>w</u>ness Display Order Variable list O <u>A</u>lphabetic ◎ As<u>c</u>ending means © Descending means Continue Cancel Help

Слика 6 Одабир вредности

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Слика 7 Приказ резултата



Још један начин за израчунавање статистичких вредности је и избором *Analyze/ Descriptive Statistics/Frequencies* (слика 9). Када нам се отвори прозор *Frequencies* избором дугмета *Statistics*

можемо одабрати које све опције желимо да израчунамо, а одабиром дугмета *Charts* можемо нацртати хистограм за сваку варијаблу коју смо укључили у анализу (слика 13).

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	35.0		285.0	45.0	20.0	1960	0 uniona	da z	062 80	day le	10,0		4.0	10	
	37.0		28.0	26.0	75.0	1000/	1 mailtonathrin	da 2	069 200	and the second se	10.0		10	1.0	
	38.0		28.0	25.0	75.0	1990,	1 electronica	da z	064 km	eren umurikalista	5.0		1.0	2.0	
-	39.0		30.0	30.0	78.0	1990/	0 percenting	da 2	014	dak	2.0		50	2.0	
	40.0		88.0	20.0	88.0	1973	0 emicrosoftia	da 2	005 700	dak.	3.0		2.0	3.0	
	41.0		10.0	10.0	90.0	2002	a meccania	da 2	010 rad	enix.	15.0		4.0	20	
	42.0		15.0	30.0	79.0	2000	0 proizvodnia	da 2	012 10	dnik	20.0		4.0	30	
14.100	46.0		1919	20.0	10,0	2000/			Concession of the local division of the loca		20,0				

Слика 9 Frequencies

✓ V1 ✓ aniable(s): ✓ statistics 	💼 Frequencies		×
		Variable(s):	<u>Statistics</u> <u>Charts</u> <u>F</u> ormat <u>B</u> ootstrap
✓ Display frequency tables	Display frequency tables		
OK Paste Reset Cancel Help	OK E	aste <u>R</u> eset Cancel H	lelp

🚔 Frequencies: Statistics	×
Percentile Values	Central Tendency
Quartiles	📝 <u>M</u> ean
Cut points for: 10 equal groups	📝 Me <u>d</u> ian
Percentile(s):	Mode Mode
Add	🔲 <u>S</u> um
Change	
Remove	
	🔲 Values are group midpoints
Dispersion	Distribution
Std. deviation 📝 Minimum	✓ Skewness
✓ Variance ✓ Maximum	✓ Kurtosis
Range S.E. mean	
Continue	Help

Слика 10 Прозор Frequencies

Слика 11 Прозор Statistics



Слика 12 Прозор *Charts* Слика 13 Хистограм за једну променљиву

Кластеровање

Следећа анализа коју је потребно урадити је кластеровање. Прва анализа коју радимо је *Analyze/Classify/Two Step Cluster* (слика 14). Параметре подешавамо као на слици 15.

_		Tagles													walke tot of t
	. All	Corrected	laone	Gin	@115	ill int	But	gin pi	611	@118	61.18	611	6131	@122	6.112
	1,0	Centrality	t line of the date of	00,0	10,8	23.0	1910.0 proiz	iodnja ina		manadzer	18,0		2,0	4.0	
	2.9	Cereage	I LISS SALE	255,0	10,8	22.0	1966,6 proiz	rednja da	2006	buzerijei	7.0		1.0	2,0	
	3,8	Consists		37/,0	11,8	12.0	2002.0 001/0	ananis da	2015	247/241	4,0		1,0	2.0	
	4.5		5 B	42,0	35,1	.0	2017.017			bestaue.	2.4		6.0	4.0	
	5,8	Degeoodex	11 - K	20.0	10,8	.0	2001.0 trans	port inte		V629-C	10,0		2,0	2,0	
	6.9	Logeneur	1000	51.0	0.0	15.0	1999 0 groiz	nodeja ze		towy	10,0		2.0	1.0	
	7,9	Page a num	Easts .	10.11	12,1	35.0	1968.6 proz	rednja éa	3000	kszonjer	11,0		2,0	3.9	
	0.0	Creek	-	SE INARMO CATARU	14.8	11.0	1992 8 proiz	vođeja da	5005	menadurer	3.0		6.0	2.0	
	0.0	Canessie	reaucua	K-Name Ovine.	10,3	7.6	2007.6 protz	redna av		100741	12,9		4,0	1.0	
	10.9		and a little	Herarchical Cluster	25.8	2.0	2013.8 proiz	rođeja se		NUTRE	6.0		1.0	2.0	
	18,0	Bestance	0001608	FETres.		3.0	2004.8 pros2	vedta Ea	2012	190711	16.0		4,0	2.0	
_	12.8	Fore causes	21 2	H Demman.	10.8	23.0	1996.8 proiz	veðsja da	5005	kazonjer	23.0		1.0	3.0	
	13.9	Arna		In Descard Linkshow	16.1	92.0	1973,6 proiz	rodnja Ka	2004	inzonjer	6.0X		2.0	2,0	
-	14.9	V),Noic The	sponse		171	-93.0	1998.6 proiz	wdeja da	2007	interior	12.0		1.0	1.0	
_	19,0	A North All	NO ANABORD.	29.0	35,1	4.0	2012/0/07	83	-	beokoure.	8,9		1,0	2,0	
_	16.0	Adumpic Int	Nation (45.0	17.8	85.0	2001.8 proz	vođuja i Ca	2014	manjadzer	6.0		4.0	3,0	
_	17,9	Corsint 5	argina 1	178,0	30,1	52.0	7985.0 proiz	vodnja da	1564	esponjer	20,0		4,0	2.0	
-	18,9	E Gendeter		80,0	2.1	42.0	2002.6 proc	vodeja ea	-	manadow	4.0		10	10	
-	19,9	Quality Col	elot i	63,0	12,8	8.0	7Vo1.9 proje	etavanju ea	1004	eszenyer	2,0		3.0	4,9	
-	20.9	ROC Gurye		58,0	10.8	23.0	7996.6 proz	redep isa	1008	menaduer	1.0		- 40	3.0	
-	21.0	-		100.0	11,4	210	2012 6 (202	verija va	1041	19211	11.2		20	4.0	
-	-12.5			20,0	27.8		2007.0 (2002	constant and	2012	Market .	12.4		10	4.0	
-	23.9			44.0	27.8		Wath it works	roonja es	*554	192755	14.0		10	4.0	
-	2.1			44.0	20.8	11.0	2001 d anno	andre an		a transfer	10.0		4.0	0.0	
-	20.5			160 0	40.8	41.0	Titlet if which	white da	2003	Lating too	10.0		10	2.0	
	27.4			150.0	45.8	41.0	DOUT II amon	andrea de	100	in the second	6.0		10	0.0	
	25.3			200.0	40.8	53.0	1997 S. mink	redata da	2008	annur an	15.0		10	10	
	29.1			120.0	3.1	61.0	1970 £ proz	redna da	2006	adal	10.0		40	20	
	30.9			100.0	37.0	110	1965.6 wola	rednja da	2001	tetrolog	10.0		1.0	6.0	
	21.0			50.0	60.8	25.0	2004 6 proz	redna da	2006	menadzei	8.0		10	3.0	
	32.0			205.0	45.8	\$2.0	1966.5 prote	en arbon	2006	arailicar	20.0		5.0	20	
	30.3			40.0	50.B	43.0	1997 8 groat	vedua da	1007	menadzer	6.0		3.0	4.0	
	34,9			15,0	40,8	53.0	2005.6 trgav	Fig		generality checks	20,0		6,0	3.0	
	36.3			98.0	45,0	23.0	2009 6 proz	vodnje da	2018	kemerojalata	10.0		4.0	3.0	
	56.8			245,0	20,8	83.0	1960 0 units;	e da	2003	radhik	30.0		6.0	1.0	
	37.0			28.0	25.1	75.0	1008.0 proiz	vednja da	2005	100111	10.0		1.0	1,0	
	30,9			28,0	25,1	75.0	mee d prote	redeja da	2001	kensecijalsta	6,0		1,0	2,0	
	39.8			30.0	30.1	73.0	1996.9 proiz	iodnje da	2004	And the second s	7.0		2.0	2.0	
	40,9			88,0	30,8	\$2.0	-1972,8 prote	es geber	2005	indrik	3,0		3,0	3,0	
	41,9			12.0	10.8	33.0	2002.0 proiz	rodina da	2018	ADDINK.	15.0		4.0	2.0	
	42.9			15,0	30, 8	73.0	2008.6 proiz	eb sjebov	2012	Factoria .	20.A		4.0	3.6	

Слика 14 Two Step Cluster

🤹 TwoStep Cluster Analysis		×
✓ V1 ♠ @10 ♠ @11 ♠ @115 ♠ @116 ♠ @117 ♠ @118 ● @12 ● @121	Categorical Variables:	Options Output
© Log-likelihood © Euclidea <u>n</u>	To be Standardized: 16 Assumed Standardized: 0	
Number of Clusters © Determine automatically Maximum: 4 © Specify fixed Number: 5	Clustering Criterion Schwarz's <u>B</u> ayesian Criterion (BIC) <u>Akaike's Information Criterion (AIC)</u>	
ОК <u>Р</u> а	ste Reset Cancel Help	

Слика 15 Прозор Two Step Cluster

Потом радимо Analyze/Classify/K-Means Cluster. Параметре подешавамо као на сликама 17 и 18.

1.1		Ogsolutive Statistics 3	88 00 39	RITE CA											
17		Tagles F						_							datase 121 of
	V1	Содраги Икала 🔹 🔸	0111	@112	@113	@114	0115	01	@117	@110	@115	@12	@121	@122	@123
	1.0	General Linear bloder *	60.0	10.0	0.65	1970.0	prezvedue .	30		menadzer	16.0		2.0	4.0	
	2.0	Werker and the Chiefer so data	255.0	16.0	22.0	1988.0	sinterary	da	2006	interjer	7.0		1.0	2.0	
	3.0	Mgao wedara	27.0	11.0	15.0	2002.0	aervisionije	de	2015	senior	4.0		1,0	2.0	
	4.0	Tourine	42.0	35.0	.0	2017.0	π	- 10	÷ /.	programer	2.0		5,0	4.0	
	5.0	Regression +	20.0	10.0	0	2001.0	transport (18	2.	WIZERC	10.0		2.0	2.0	
	6.0	Lighner +	66.0	6.0	15.0	1999.0	prezvodnje	10		brevar	15.0		2.0	1.0	
	7.0	Neucalivergenes +	80.0	12.0	36.0	1068.0	2 preizvodnje	da	2068	Inzenjer	11.0		3,0	1.0	
	8.0	Classify >	Wedber Chalar.	14.0	16.0	1992.0) praszytodnysi	do	2085	menadzer	5.0		5,0	2.0	
	R D	Emerator Reductori +	Heans Cluster.	18.0	7.0	2007.0	prezvodnja			racinik	12.0		4,0	1.0	
	10,0	Sogle *	Herarchical Cluster	25,0	2.0	2013.0	prezvodnje	10		vozac	6,0		1,0	2.0	
	11.0	Honaprometrie Teels	Ell Tree	9,0	3,0	2064,6	prezvolnja	40	2012	radnik	15,0		4,0	2.0	
	12.0	Forecasjing I		16.0	20.0	1996,0	prezvednja	40	2062	inzerjer	23,0		1,0	3.0	
	13.D	Daviel +	a contraction of the second	15,0	63.0	1973,6	autocycle a	40	2080	incories	5.0		2,0	2,0	
	74.0	Multiple Response >	III Devie superinter	13,0	0.00	1998.0	preizvodnja	40	2001	mzenjer	12.0		1,0	7,6	
	15.0	Missing Value Analysis	20,0	36.0	4,0	2012.0	2.π	110		programar	0.3		1,0	2.0	
	15,0	Multiple Imputation +	45.0	17,0	65.0	2001,0	prezvolnja	da:	2010	menalizer	6,0		4,0	3.0	
	17,0	Complex Samples	118,0	38,0	60.0	1985,0	aprilazvoranja	da	1068	inzerjer	20.0		4,0	2,0	
	18.0	Th Simulation	6.03	26.0	40.0	2062.0	0. prakzyodnjal	26		menatizer	4.0		1,0	1.0	
	19,0	Quality Castrol +	63.0	12,0	6.0	1981,6) projektovarije	da.	1596	janten des	5.0		3,0	4.0	
	29.0	RE BOC Cares	56.0	10,0	20.0	1950,0	praizvodnja	da	2068	menatzei	7.0		4,0	3.0	
	21,0	The same seafers	180,0	11.0	21,0	20.12,6) praizvodnje	199	•	radnik	11.0		2,0	4.6	
	22,0		66,0	18,0	10,0	2001.0) prazvadnje	de	2012	VOLUE	6,6		1,0	2.0	
	23.0		46.0	27,0	0,3	1985.0) praizvodnja	da	2002	zachik	12.0		1.0	4.0	
	24.0		44.0	17.0	7.0	2007.0) proizyschija	180		intenjes	6.0		4,0	5.0	
	25.0		44,0	,20,0	11,0	1951.0) praizvadnje			inzetijer.	15.0		4,0	2.0	
	26.0		250.0	40.0	60.0	1995.0	prozvodnje	də	2063	tehnolog	10.0		3.0	2.0	
	27.0		150.0	45.0	40.0	2007.0	prozvodnje	de	2009	2010100E	5.0		1,0	2.0	
	28.0		200.0	40.0	50.0	1992.0) preizvednje	de	2008	inzerger	15.0		0.5	1.0	
	29.0		120.0	36,0	60.0	1979,4) prazvodnje	-da	2005	rachik	10.0		4,0	2.6	
	38.8		100.0	37,0	60.0	1985.0) prozvadnje	de	2084	tehnolog	15,0		1,0	5.0	
	31.0		60.0	60.0	36.0	2064.0) praizvodnje	do	2060	menadzer	8.0		1,0	2.6	
	32,0		200.0	45,0	52.0	1988,1) praizvodnje	do	2006	phaliticar	20.0		5,0	2.0	
	33,0		60.0	50,0	40,0	1997,6) praizvodnja	da	2007	menadzer	5.0		3,0	4,0	
	34.0		15,0	40,0	50.0	2005.0	apovena .	190		generalis diraktor	20.0		5,0	3.0	
	35.0		18,0	45,0	29.0	2009.0) prazvodnje	do	2010	komercijakata	10,0		4,0	3.0	
	39.0		246,0	20,0	0.90	1960,0	adres (40	2002	radnik	30.0		5,0	1.0	
	37.0		28.0	25,0	75.0	1968.0) preizvodnja	da	2009	radnik	10.0		1,0	1.0	
	38.0		28,0	25,0	75.0	1988,0) bistikodula	da	2084	komercijalizta	5,0		1,0	2,0	
	39.0		30,0	30,0	70.0	1995,0	2 prautvodnja	da	2064	radnik	7,0		2,0	2,0	
	40,0		88,0	20.0	80,0	1973,0) buartvaculta	40	2005	rachik	3.0		3,0	3.0	
	41,0		10.0	10,0	90,0	2002,0	y mazvolaja	da:	2010	radnik	15.0		4,0	2.0	
	42.0		15.0	30.0	70.0	2008.0	arezvednig	40	2012	rachik	20.0		4.0	3.0	

Слика 16 K-Means Cluster

🍓 K-Meens Cluster Analysis	×	🍓 K-Means Cluster Analysis	×
	iterate Save Options		assify only
Cluster Centers Continue		Cluster Centers Read initial: © Open dataset © Write that: © New gataset © Dgia tile File.	
OK Baste Beset Cancel Help		OK Paste Reset Cancel He	p

Слика 17 Одређивање броја итерација

Слика 18 Прозор K-Means Cluster

Факторска анализа

Факторска анализа врши се избором Analyze/Dimension Reduction/Factor.Одаберемо променљиве за које желимо да урадимо факторску анализу, а затим одабиром дугмета Descriptives селектујемо корелационе матрице које желимо да добијемо (слика 21), у картици Extraction одаберемо методу Maximum likelinhood (слика 22), а у картици Rotation одаберемо жељену ротацију (слика 23).

		Table												6	sible: 121 of 12
Γ	vi	Седрагазмала	. Gitt	@112	@115	0114	@116	(AT (B+17	614	619	億12	登 位1	@122	643
1	10	General Linear Nodel	*	10.0	26.0	1970.0	an teacher	10		ranatia	15.5		2.5	40	
-	20	Generalized Linear Nodels	255.0	15.0	22.0	1968.0	proizvode ja	112 2	006	inzaniar	7.8		1.0	2.0	
-	3.0	Miged Noclets	22.0	11.0	15.0	2062.0	numi e interita	141 2	015	hardinar	4.0		1.0	20	
-	4.0	Cerrelate	* #2.0	35.0	0	2017.0	π	194		NO. CO. CO.	2.0		5.0	4.0	
-	5.0	Begressker	+ 21.0	10.0		2001.0	lossed	194		117.20	18.5		2.0	20	
1	6.0	Loginear	* 55 D	6.0	15.0	1959.0	proizvodnia	04 -		basar	15.0		2.0	1.0	
-	7.0	Neural Networks	* 01.0	12.0	35.0	1968.0	morendeia	11 2	000	(tranie)	11.0		3.0	10	
-	8.0	Closely	170.0	14.0	10.0	1952.0	prointende la	da 2	005	renation	4.5		5.0	2.0	
	9.0	Dimension Reduction	Factor.	0	7.0	2007.0	proizvadaja	09 -		satnik	12.0		4.0	1.0	
-	10.0	Sight	* Correspondence A	adrata 0	2.0	2013.0	pros z vodit ja	194 -		VICENC	4.0		1.0	2.0	
	11.0	Neopatameter: Teste	* di Defma Sciano	0	3.0	2004-0	proizvodnia	da 2	012	adak	15.0		4.0	2.0	
	12.0	Forecasting	P 45.0	15.0	20.0	1996 0	proizvednja	da 2	290	inzeniel	21.8		10	3.0	
	13.0	BRANA	+ 75,0	15,0	63,0	1973.0	proizvadaja	de 2	000	runnet	5.0		2.0	2,0	
	14.0	Mytple Response	52.0	13.0	60.0	1958.0	prokovadnja	de 2	500	internet	12.0		10	1.0	
	15.0	BD Missing Value Androis	20.0	35.0	4.0	2012.0	П	ne -		progamer	4.0		1.0	2.0	
	16.0	Materia ministration	45.0	17.0	85.0	2051.0	prozvadnia	de 2	010	menador	6.0		45	3.0	
	17.0	Campier Sacrolas	118.0	38.0	60.0	1965.0	progradria	de 2	950	intenet	22.0		4.0	2.0	
	18.0	- Ciudalos	(50.0	25.0	40.0	2002.0	prozvodnie	ne -		renadzer	4.0		1.0	1.0	
	19.0	and chammer	53.0	12.0	6.0	1951.0	prosektovneje	de T	996	interier	3.8		3.0	4.0	
	20.0	Listed Calaba	56,0	10.0	20.0	1950.0	prozvadnja	de 2	000	menadzer	7.8		4.0	3,0	
	21.0	HOC OUNA_	190.0	11.0	21.0	2012.0	procryodings	ne -		rsénik	11.0		2.0	4.0	
	22.0		55.0	18.0	16.0	2001.0	proizvodnia	ds 2	012	VUENC	3.0		1.0	2.0	
	23.5		45.0	27.0	6.0	1985.0	proizvodeja	da 2	500	raink	12.0		1.0	4.0	
	24.0		44,0	17.0	7.0	2012.0	prozvodnja	- 194		incenter.	6.2		4.0	5.0	
	25.0		44.0	20.0	11.0	1951.0	procryoditys	ne -		inzenjel	15.0		4.0	2.0	
	25.0		250.0	40.0	60.0	1995.0	proizvodija	da 3	663	Infinitiog	18.0		3.0	2.0	
	27.0		150.0	45.0	40.0	2067.0	prozvadnja	di 2	610	zararisac	5.0		1.0	2.0	
	28.0		200.0	40.0	50.0	1552.0	proceedings	tte 2	890	inzeniel	15.0		2.0	1.0	
	29.0		120.0	35.0	60.0	1970.0	proizvodeja	de 2	005	rstnk	10.0		4.0	2.0	
	30.0		100.0	37.0	50,0	1965,0	proizvođeja	da 2	004	goisning	15.0		1.0	5.0	
	31.0		50.0	60.0	35.0	2064.0	proczyodnya	10 2	000	menacizer	1.1		1.0	3.0	
	32.0		200.0	45.0	12.0	1988.0	proczyscieja	de 2	065	anditicar	28.0		5.0	2.0	
	33.0		- 60,0	50.0	40.0	1257.0	proizvodnja	uta 2	267	menacizer	5,0		3.9	4.0	
	34,0		15,0	40,0	50,0	2065.0	tepovina	nt -		genalahi diraktar	28,8		5,0	3,0	
	36.0		18.0	45.0	20.0	2059.0	proczyschija.	da 2	010	komercijalista	18.0		4.0	3.0	
	36.0		245.0	20.0	10,0	1960.0	utluge	da 2	082	estnik	31.1		5.0	1.0	
	37,0		29.0	25,0	75,0	1368.0	proizvedirja	da 2	969	sadnik	18.0		1.0	1,0	
	38.0		28,0	25, D	75.0	1988.0	proizvadeja	th 2	490	komercijakata	5,0		1.0	2.0	
	39.0		30.0	30.0	70.0	1986.0	procrysdaja	de 3	400	ročnik	.7.8		2.0	2.0	
	40.0		35,0	29.9	80.0	1973.0	proizvodnja	its 2	985	ratnik	3,9		3.9	2,0	
	41.0		10.0	10.0	90,0	2012.0	proizvedin ja	da 2	010	sadnik.	15,9		4.0	2,0	
	42.0		15.0	38.0	70.0	2018.0	mozvednia	. 11 2	612	ratek	28.0		4.0	3.0	

Слика 19 Factor

💼 Factor Analysis		×
 	Variables:	Descriptives Extraction Rotation Scores Options

Слика 20 Прозор Factor

🚔 Factor Analysis: Descriptives 🛛 🗙 🗙	
Statistics	
Univariate descriptives	
Initial solution	
- Correlation Matrix	
Coefficients Inverse	
Significance levels Reproduced	
Determinant Anti-image	
KMO and Bartlett's test of sphericity	
Continue Cancel Help	

Слика 21 Прозор Descriptives

📲 Factor Analysis: Extraction 🛛 🕹	i Factor Analysis: Rotation
Method: Maximum likelihood Analyze Oisplay Correlation matrix Covariance matrix Scree plot Extract Based on Eigenvalue Eigenvalues greater than: Fixed number of factors Factors to extract: 	Method Method Mone Quartimax Yarimax Equamax Direct Oblimin Promax Delta: Kappa Display Loading plot(s) Maximum Iterations for Convergence: Antimum Iterations for Convergence:
Maximum Iterations for Convergence: 25 Continue Cancel Help	Continue Cancel Help

Слика 22 Прозор Extraction

Слика 23 Rotation

Convergence: 25

×

Анализа поузданости

Радимо две анализе поузданости и то Cronbach alpha и Guttman (слике 24-27).

🔹 Reliability Analysis 🛛 🕹	🍓 Reliability Analysis: Statistics 🛛 🗙
	Descriptives for Inter-Item gcale ✓ Correlations Scale if item deleted ✓ Covariances ✓ Scale if item deleted ✓ Covariances ✓ Means ✓ None ✓ Yariances ✓ Fiest ✓ Covariances ✓ Friedman chi-square ✓ Correlations ✓ Cochran chi-square ✓ Hotelling's T-square Tukey's test of additivity ✓ Intraclass correlation coefficient ✓
	Model: Two-Way Mixed Type: Consistency Consistency Confidence interval: 95 % Test value: 0 Continue Cancel Help

Слика 24 Анализа поузданости Cronbach alpha

Слика 25 Прозор Statistics

Image: Concept type Image: Concent Image: Concept type

🔹 Reliability Analysis: Statistics	×
Descriptives for tem Scale Sc <u>a</u> le if item deleted	Inter-Item Correlations Covarianc <u>e</u> s
Summaries Means Variances Covariances Correlations	ANOVA Table © None © E test © Friedman chi-square © Coc <u>h</u> ran chi-square
Hotelling's T-square Intraclass correlation coefficient Model: Two-Way Mixed	Tukey's test of additivity
Confidence interval: 95 %	Test value: 0

Слика 26 Анализа поузданости Guttman



Линеарна регресија

Поступак регресије вршимо тако што прво одаберемо *Analyze/Regressino/Linear* (слика 28). Појављује нам се прозор где можемо да одаберемо зависне и независне променљиве које желимо да укључимо у анализу. Метод који користимо је *Stepwise* (слика 29). Одабиром дугмета *Statistics* отвара нам се прозор у ком подешавамо параметре попут интервала поверења (слика 30). Дугме *Plot* нам омогућава да нацртамо дијаграм.

(max)		Dyscriptive Statistics	HH CLUBS	Inne 👾	III 194 - 10									
<u>11</u>	100 V1	Tages A Company Means	@111	@112	@113	@114	(Q 115	201 Q1	17 @118	@119	@12	@121	@122	(0123
		General Linnar Nedel +	<u> </u>					15						
	1.0	Generalized Linear Models #	97,0	10.0	21.0	3970.	0 prozvodnja	60 -	monactzer	18,0		2,0	4.0	
	2.0	Nostilisdes P	265,0	16.9	22.0	1983,	0 proizvodnja	da 2008	11/201/07	7.0		1.0	2.0	
	3,0	Constant +	27,0	11,0	\$5,D	2002	0 benkaranye	da 2015	servou	4,0		7,8	2.0	
	4,0	Recrossion *	THE A CONTRACT DATA MADE	they want		2017.	ditt.	£0 -	programer.	2,0		5,0	4.0	
-	5.0	Loginear +	A Reserve		4	2001.	0 transport	60 -	VOZAC	10.0		2.8	2.0	
-	5.0	Neurol Networks P	TEL UNION.	2	15,0	7590.	0 prouvednja	10	crover	15,0		2,9	1.0	
_	7.0	Casefy +	Cole Estimates.	2	36.0	7968.	0 proizvodnja	63 2000	Inzonjer	11,0		2,0	1.0	
	8.0	Ferreschulter a	Partial Long! Openres	- 2	11.0	1992.	0 proizvolinja	63 2008	monadzer	9,0		5,5	2,0	
-	0,0	Scott B	El Elhary Logistic	2	7,8	2607	0 proizvednja	10	/10/19	12,0		4,8	5.0	
-	10.0	Hone watered to Tasks	Stateo Lisimentali 🛃	1	2.8	2013.	0 proizvolénja	60 -	V0290	6.0		1,0	2.0	
-	11,0	Examples A	Diginal.	2	3.0	2004	u prozvednja	es 2012	/adnik	15,0		4,5	2,0	
-	12.0	Contrading (LE Protet	1	29.0	1995.	o proizvednja	63 2700	interiller	23,0		1,8	3.0	
-	13,0	garner Providence A	Li Manihanan	1	63.9	7973	u proizvodnja	oa 2000	inzonjer	6,0		2,0	2.0	
-	14.0	minute Nexposite *	THE PERSON N.	1	62.5	7596	0 prostvodnja	da 200	inzanjar	12.0		1.0	1.0	
-	10.0	EP weaks varie verifier	Ma Mediates autocou"		4.0	2012	0.000	ne -	programer	0.0		1.8	2.9	
-	16,0	Rulipin Impulation *	2-Stage Least Square	- <u>-</u>	66.0	2001	o prozvoenja	03 2010	monacze:	6.0		4,9	3.0	
-	17.0	Corrigies Sampres .	Optimal Scaling (CATF	REGI.	66.0	7985.	0 prouvedina	da 1998	interjar	20:0		4,0	20	
-	10.0	Sinclation	96.0	6.00	41.1	2002.	o proizvoima	FIG -	monarizer	4,0		1,8	1,9	
	19,0	Quality Control #	5,5,0	12.0	5.5	1251	C projonevanjo	63 1994	inzenjer	3,0		3.5	4,0	
-	20.0	ROC Darys .	90,0	10.0	41	3990.	0 prozvodnja	da 2018	menaczer	7.0		4.3	3.0	
-	21.0		180,0	11.0	21.0	2012	u proizveima	00	raorue	11,0		2.8	4,0	
-	22.0		55,0	18.9	11.0	2001	u prouventia	es 2012	VOCAC	200		1.9	2.0	
-	20.0		49.0	20.9	3.0	1760.	U proizvolonja	68 2004	racrie	129		1.4	4.0	
-	24,0		44,0	20.0	1.0	1844	C proceedings	612	incenter	10.0		4.5	3.9	
-	20.0		969.0	40.0	0.0	1501	o proceedings	4. 000	and and a second s	10.0		1.6	2.0	
-	26.0		1000	40.0	44.6	7990.	o protevennja	da (0000	ternsog	100			2.0	
-	29,0		190,0	+0.9	44.9	2007	o pocouria	da 2000	Laternac	5,2		1.4	2,0	
-	20.0		120.0	35.0	(25.8) (25.8)	16.70	() promode a	da 2004	radiale	10.0		10	2.0	
	30.0		100.0	27.0	64.8	1910	0 proceeding	da 2000	tetralus	+5.0		14	5.9	
-	20.0		100.0	50.0	36.0	2504	0 mmmodaa	da 200	manadaar	8.0		1.8	3.0	
-	12.0		240.0	45.0	62.8	1500	() opposidate	da 0000	maltinar	20.0		6.0	20	
-	33.0		60.0	50.0	40.0	1900.	0 minodaa	44 2000	menadare	50		1.0	40	
-	34.0		15.0	40.0	64.0	2605	Otropics	20	measurely, circletor	20.0		5.6	3.0	
	35.0		18.0	45.0	21.0	2809	C monthain	da 2010	konemialeta	10.0		4.8	3.0	
	36.0		245.0	20.0	86.8	1962	Q unitere	the 2000	rates	310		5.8	10	
-	37.0		28.0	25.0	25.0	1583	0 proizvednia	da 2005	radiale	10.0		1.5	10	
-	30.0		25.0	25.8	75.8	1192	0 emitorida	da 2004	komercialista	50		18	20	
	39.0		30.0	30.0	78.6	1995	0 prozvodna	da 200	rachik	70		2.0	20	
	40.0		89.0	20.0	95.0	1973	0 projevedna	64 2004	radole	20		2.6	3.0	
	41.0		10.0	10.0	96.6	2002	0 projevodna	da 2010	radelk	45.0		4.5	20	
	42.0		150	30.0	75.8	2003	0 projevodna	ria 2010	radnik	20.0		4.5	3.0	

Слика 28 Linear regression

tinear Regression		\times
 	Dependent: Dependent: Dependent: Previous Independent(s): @ 317 @ 317 @ 317 @ 313 @ 314 Method: Stepwise Selection Variable: Rule	Statistics Plots Save Options Bootstrap
 ♣ @313 ♣ @314 ♣ @315 	Case Labels:	
 @316 @317 	WLS Weight:	
	OK Paste Reset Cancel Help	

Слика 29 Прозор Linear Regression

🍓 Linear Regression: Statistics	×
Regression Coefficients Model fit Estimates R squared change Confidence intervals Descriptives Level(%): 95 Part and partial correlation Covariance matrix Collinearity diagnostics	ıs
Residuals Durbin-Watson <u>Casewise diagnostics</u> Outliers outside: 3 standard deviations All cases	S
Continue Cancel Help	

Слика 30 Прозор Statistics

💼 Linear Regression: Plots	×
DEPENDNT *ZPRED *ZRESID *DRESID *ADJPRED *SRESID *SDRESID	Scatter 1 of 1 Previous Next Y: X: X: X:
Standardized Residual Plot Standardized Residual Plot Image: standardized Res	Cancel Help

Слика 29 Прозор Plots

🤹 Linear Regression: Options	×						
Stepping Method Criteria							
Use probability of F							
Entry: ,05 Removal: ,10							
© Use F value							
Entry: 3,84 Removal: 2,71							
Include constant in equation							
Missing Values							
© Exclude cases listwise							
© Exclude cases <u>p</u> airwise							
Replace with mean							
Continue Cancel Help							

Слика 30 Прозор Options