

ANOVA analysis of Make as the explanatory variable and Invoice reponse variable**The ANOVA Procedure**

Class Level Information		
Class	Levels	Values
Make	38	Acura Audi BMW Buick Cadillac Chevrolet Chrysler Dodge Ford GMC Honda Hummer Hyundai Infiniti Isuzu Jaguar Jeep Kia Land Rover Lexus Lincoln MINI Mazda Mercedes-Benz Mercury Mitsubishi Nissan Oldsmobile Pontiac Porsche Saab Saturn Scion Subaru Suzuki Toyota Volkswagen Volvo

Number of Observations Read	428
Number of Observations Used	428

ANOVA analysis of Make as the explanatory variable and Invoice response variable**The ANOVA Procedure****Dependent Variable: Invoice**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	37	69993835243	1891725276.8	11.73	<.0001
Error	390	62907488849	161301253.46		
Corrected Total	427	132901324092			

R-Square	Coeff Var	Root MSE	Invoice Mean
0.526660	42.31407	12700.44	30014.70

Source	DF	Anova SS	Mean Square	F Value	Pr > F
Make	37	69993835243	1891725277	11.73	<.0001

ANOVA analysis of Make as the explanatory variable and Invoice reponse variable**The ANOVA Procedure****Duncan's Multiple Range Test for Invoice**

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	390
Error Mean Square	1.613E8
Harmonic Mean of Cell Sizes	6.0765

Note: Cell sizes are not equal.

Number of Means	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Critical Range	14325	15081	15586	15959	16251	16488	16687	16856	17003	17132	17246	17349	17442	17526

Number of Means	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Critical Range	17603	17674	17740	17800	17857	17909	17958	18004	18047	18088	18127	18163	18197	18230

Number of Means	30	31	32	33	34	35	36	37	38
Critical Range	18261	18290	18318	18345	18371	18395	18419	18441	18462

Means with the same letter are not significantly different.									
Duncan Grouping						Mean	N	Make	
			A			73663	7	Porsche	
			B			56453	26	Mercedes-Benz	
			B						
			B			56098	12	Jaguar	
			B						
	C		B			46427	8	Cadillac	
	C		B						
	C		B			45815	1	Hummer	
	C		B						
	C		B		D	41851	3	Land Rover	
	C				D				
	C		E		D	39621	20	BMW	
	C		E		D				
	C		E		D	39330	19	Audi	
	C		E		D				
	C		E		D	39136	9	Lincoln	
	C		E		D				

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The ANOVA Procedure

Duncan's Multiple Range Test for Invoice

Means with the same letter are not significantly different.									
Duncan Grouping							Mean	N	Make
	C		E		D		38760	11	Lexus
	C		E		D				
	C		E		D		38591	7	Acura
	C		E		D				
	C	F	E		D		35620	7	Saab
	C	F	E		D				
G	C	F	E		D		34216	12	Volvo
G	C	F	E		D				
G	C	F	E		D	H	32880	8	Infiniti
G	C	F	E		D	H			
G	C	F	E	I	D	H	29683	15	Volkswagen
G		F	E	I	D	H			
G		F	E	I	D	H	27855	9	Buick
G		F	E	I	D	H			
G		F	E	I	D	H	26289	8	GMC
G		F	E	I	D	H			
G		F	E	I	D	H	25658	9	Mercury
G		F	E	I	D	H			
G		F	E	I	D	H	25270	15	Chrysler
G		F	E	I	D	H			
G		F	E	I	D	H	24619	2	Isuzu
G		F	E	I		H			
G		F	E	I		H	24160	13	Dodge
G		F	E	I		H			
G		F	E	I		H	24061	27	Chevrolet
G		F	E	I		H			
G		F	E	I		H	23298	11	Subaru
G		F	E	I		H			
G		F	E	I		H	22997	17	Nissan
G		F	E	I		H			
G		F	E	I		H	22645	3	Jeep
G		F	E	I		H			

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Means with the same letter are not significantly different.									
Duncan Grouping						Mean	N	Make	
G		F	E	I		H	22160	11	Pontiac
G		F	E	I		H			
G		F	E	I		H	21953	23	Ford
G		F	E	I		H			
G		F	E	I		H	21835	13	Mitsubishi
G		F	E	I		H			
G		F	E	I		H	21749	3	Oldsmobile
G		F		I		H			
G		F		I		H	20296	28	Toyota
G		F		I		H			
G		F		I		H	20192	11	Mazda
G		F		I		H			
G		F		I		H	19513	17	Honda
G				I		H			
G				I		H	16787	2	MINI
				I		H			
				I		H	16068	8	Saturn
				I		H			
				I		H	16035	12	Hyundai
				I		H			
				I		H	15891	8	Suzuki
				I		H			
				I		H	14890	11	Kia
				I					
				I			12910	2	Scion