

Laporan Praktikum 9

Statistika dan Probabilitas



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Kelas Praktikum : E

PROGRAM STUDI SISTEM INFORMASI
FAKULTAS SAINS DAN TEKNOLOGI TERAPAN
UNIVERSITAS AHMAD DAHLAN
YOGYAKARTA
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1. Tujuan Praktikum

1. Mahasiswa dapat mengenal menu korelasi pada SPSS
2. Mahasiswa dapat menganalisis korelasi dengan program SPSS

2. Dasar Teori

Korelasi adalah asosiasi / hubungan antara variable-variabel yang diminati. Di sini akan disoroti dua analisis korelasi yaitu tentang apakah data sampel yang ada menyediakan bukti cukup bahwa ada kaitan antar variabel-variabel dalam populasi asal sample dan jika ada hubungan seberapa kuat hubungan antar variabel tersebut.

3. Percobaan

Correlations

[DataSet1]

Descriptive Statistics

	Mean	Std. Deviation	N
kecerdasan	29.58	6.445	12
prestasi_belajar	52.17	3.810	12

Correlations

		kecerdasan	prestasi_belajar
kecerdasan	Pearson Correlation	1	.766**
	Sig. (2-tailed)		.004
	N	12	12
prestasi_belajar	Pearson Correlation	.766**	1
	Sig. (2-tailed)	.004	
	N	12	12

**. Correlation is significant at the 0.01 level (2-tailed).

NONPAR CORR

```
/VARIABLES=motivasi prestasi_kerja
/PRINT=BOTH TWOTAIL NOSIG
/MISSING=PAIRWISE.
```

Nonparametric Correlations

Correlations

			motivasi	prestasi_kerja
Kendall's tau_b	motivasi	Correlation Coefficient	1.000	.698**
		Sig. (2-tailed)	.	.002
		N	12	12
	prestasi_kerja	Correlation Coefficient	.698**	1.000
		Sig. (2-tailed)	.002	.
		N	12	12
Spearman's rho	motivasi	Correlation Coefficient	1.000	.822**
		Sig. (2-tailed)	.	.001
		N	12	12
	prestasi_kerja	Correlation Coefficient	.822**	1.000
		Sig. (2-tailed)	.001	.
		N	12	12

** . Correlation is significant at the 0.01 level (2-tailed).

PARTIAL CORR

```
/VARIABLES=pengetahuan demokrasi BY partisipasi
/SIGNIFICANCE=TWOTAIL
/MISSING=LISTWISE.
```

Partial Corr

Correlations

Control Variables			pengetahuan	demokrasi
partisipasi	pengetahuan	Correlation	1.000	.397
		Significance (2-tailed)	.	.603
		df	0	2
	demokrasi	Correlation	.397	1.000
		Significance (2-tailed)	.603	.
		df	2	0

```
SAVE OUTFILE='D:\coolyeah\statprob\praktikum\E_2215016135_Taufan Ali_praktikum 9-percobaan.sav'
/COMPRESSED.
NEW FILE.
DATASET NAME DataSet2 WINDOW=FRONT.
DATASET ACTIVATE DataSet1.
CORRELATIONS
/VARIABLES=motivasi prestasi_kerja
```

```

/PRINT=TWOTAIL NOSIG
/STATISTICS DESCRIPTIVES
/MISSING=PAIRWISE.

```

Correlations

[DataSet1] D:\coolyeah\statprob\praktikum\E_2215016135_Taufan Ali_praktikum 9-percobaan.sav

Descriptive Statistics

	Mean	Std. Deviation	N
motivasi	72.75	6.744	12
prestasi_kerja	77.75	6.917	12

Correlations

		motivasi	prestasi_kerja
motivasi	Pearson Correlation	1	.772**
	Sig. (2-tailed)		.003
	N	12	12
prestasi_kerja	Pearson Correlation	.772**	1
	Sig. (2-tailed)	.003	
	N	12	12

** . Correlation is significant at the 0.01 level (2-tailed).

NONPAR CORR

```

/VARIABLES=motivasi prestasi_kerja
/PRINT=BOTH TWOTAIL NOSIG
/MISSING=PAIRWISE.

```

➔ Nonparametric Correlations

Correlations

			motivasi	prestasi_kerja
Kendall's tau_b	motivasi	Correlation Coefficient	1.000	.698**
		Sig. (2-tailed)	.	.002
		N	12	12
	prestasi_kerja	Correlation Coefficient	.698**	1.000
		Sig. (2-tailed)	.002	.
		N	12	12
Spearman's rho	motivasi	Correlation Coefficient	1.000	.822**
		Sig. (2-tailed)	.	.001
		N	12	12
	prestasi_kerja	Correlation Coefficient	.822**	1.000
		Sig. (2-tailed)	.001	.
		N	12	12

** . Correlation is significant at the 0.01 level (2-tailed).

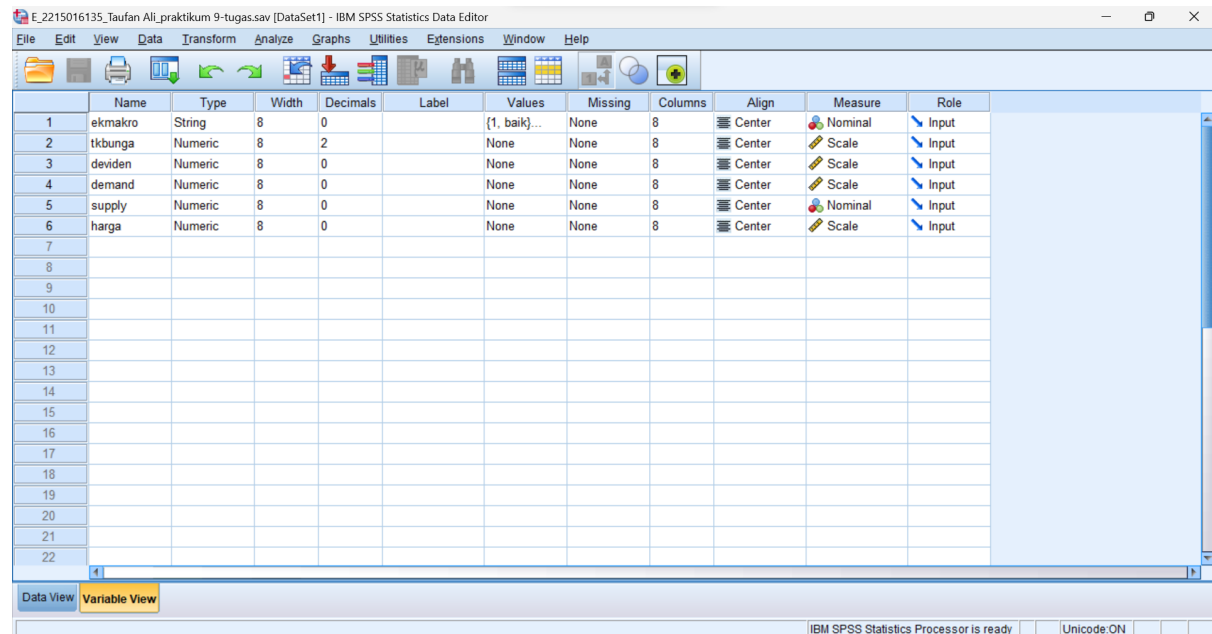
4. Tugas

	ekmakro	tkbunga	dividen	demand	supply	harga
1	baik	.12	700	90	8	5000
2	sedang	.11	700	95	8	6000
3	baik	.14	500	70	6	4000
4	kurang	.12	650	85	7	4500
5	baik	.10	750	80	9	6500
6	sedang	.10	780	85	10	7000
7	baik	.16	400	60	5	3000
8	sedang	.13	750	90	7	5000
9	baik	.12	600	85	8	5500
10	kurang	.11	790	75	9	5750
11	baik	.11	800	77	8	5900
12	sedang	.10	850	79	8	6000
13	baik	.12	850	80	8	6150
14	baik	.09	850	79	7	6250
15	kurang	.13	800	75	7	6020
16	baik	.08	750	75	7	5950
17	baik	.12	750	60	6	5800
18	baik	.13	800	65	7	5500
19	kurang	.11	790	70	7	6000
20	sedang	.10	800	75	8	6500

1. Adakah hubungan antara ekonomi makro, dividen, demand saham, supply saham, dan harga saham?
2. Carilah korelasi parsial antara:
 - a. Variabel dividen dengan harga saham
 - b. Permintaan saham dengan harga saham
 - c. Penawaran saham dengan harga saham

JAWAB :

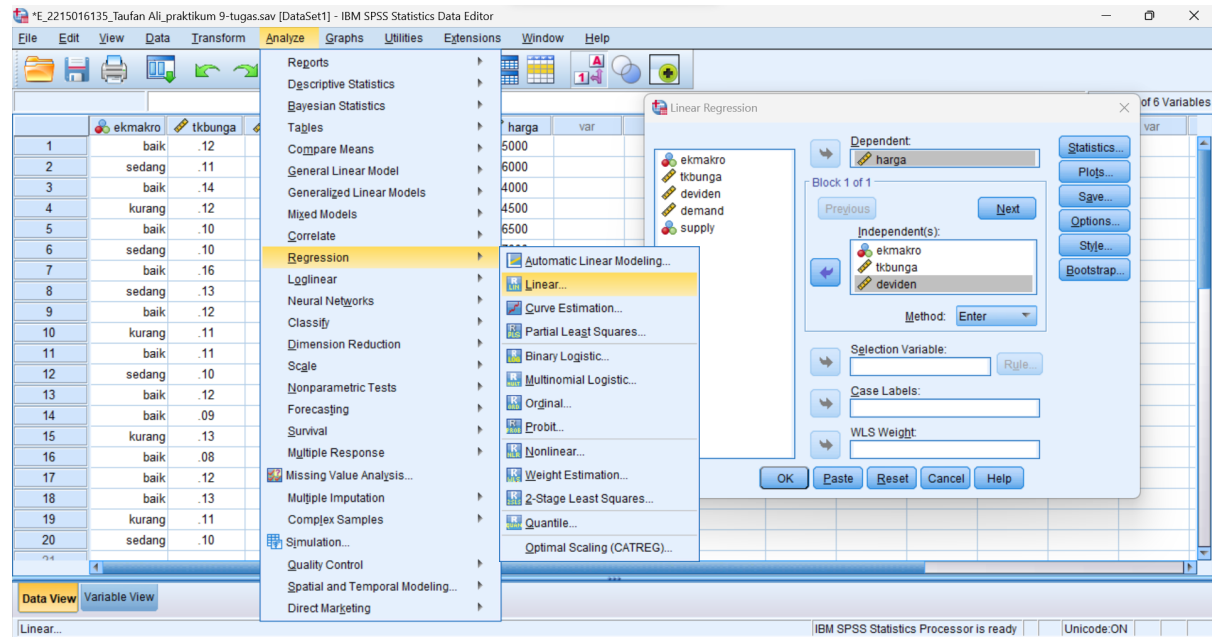
1. Pada menu variabel view, buat variabel seperti gambar dibawah :



2. Pada menu data view, masukkan data seperti gambar dibawah :

[illegible]

3. Lakukan pengujian korelasi dengan memilih menu Analyze – Regression – Linear. Lakukan seperti gambar dibawah :



4. Maka akan keluar output seperti berikut :

➔ Regression

[DataSet1] D:\coolyeah\statprob\praktikum\E_2215016135_Taufan Ali_praktikum 9-tugas.sav

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	deviden, ekmakro, tkbunga ^b	.	Enter

a. Dependent Variable: harga

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.898 ^a	.806	.769	447.824

a. Predictors: (Constant), deviden, ekmakro, tkbunga

ANOVA ^a						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	13292544.62	3	4430848.208	22.094	.000 ^b
	Residual	3208735.377	16	200545.961		
	Total	16501280.00	19			

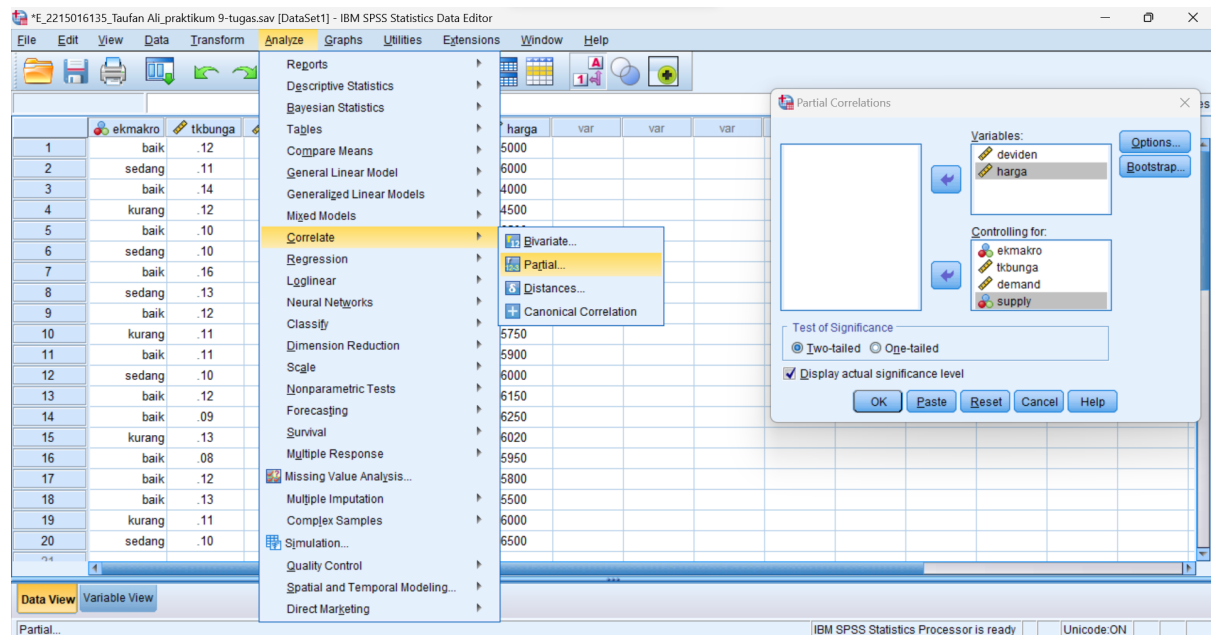
a. Dependent Variable: harga

b. Predictors: (Constant), deviden, ekmakro, tkbunga

Coefficients ^a						
Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4706.937	1595.153		2.951	.009
	ekmakro	-12.268	131.023	-.011	-.094	.927
	tkbunga	-20946.976	7657.911	-.409	-2.735	.015
	deviden	4.554	1.220	.573	3.732	.002

a. Dependent Variable: harga

5. Selanjutnya untuk melakukan pengujian korelasi parsial dengan menggunakan menu Analyze - Correlate - Partial. Lakukan seperti gambar dibawah :



6. Klik OK, maka akan menampilkan output seperti gambar dibawah ini :

```
PARTIAL CORR
/VARIABLES=deviden harga BY ekmakro tkbunga demand supply
/SIGNIFICANCE=TWOTAIL
/MISSING=LISTWISE.
```

➔ Partial Corr

Correlations			deviden	harga
Control Variables				
ekmakro & tkbunga & demand & supply	deviden	Correlation	1.000	.679
		Significance (2-tailed)	.	.004
		df	0	14
	harga	Correlation	.679	1.000
		Significance (2-tailed)	.004	.
		df	14	0