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Lampiran 1 Data Panel Perusahaan Sub-Sektor Perbankan

Periode 2017-2021

KODE EMITEM	TAHUN	NIM	X1 (NPL)	X2 (EQTA)	X3 (OE)	ID	Dummy
BBCA	2017	6,20	1,50	19,20	58,60	1	2
BBCA	2018	6,10	1,40	18,80	58,20	1	2
BBCA	2019	6,20	1,30	18,00	59,10	1	2
BBCA	2020	5,70	1,80	16,50	63,50	1	2
BBCA	2021	5,10	2,20	18,30	54,20	1	2
BBRI	2017	7,90	2,10	20,00	69,10	2	2
BBRI	2018	7,40	2,10	20,40	68,40	2	2
BBRI	2019	6,90	2,60	19,40	70,10	2	2
BBRI	2020	6,00	2,90	11,00	81,20	2	2
BBRI	2021	6,80	3,00	16,80	74,30	2	2
BBNI	2017	5,50	2,30	15,60	70,90	3	1
BBNI	2018	5,20	1,90	16,10	70,10	3	1
BBNI	2019	4,90	2,30	14,00	73,10	3	1
BBNI	2020	4,50	4,30	2,90	93,30	3	1
BBNI	2021	4,70	3,70	10,40	81,20	3	1
AGRO	2017	3,70	2,50	5,60	86,40	4	2
AGRO	2018	3,80	2,80	5,80	82,90	4	2
AGRO	2019	3,00	7,60	1,10	96,60	4	2
AGRO	2020	2,40	4,90	0,70	97,10	4	2
AGRO	2021	2,50	3,90	5,20	287,80	4	2
BJTM	2017	6,90	4,50	17,40	68,60	5	1
BJTM	2018	6,40	3,70	17,70	69,40	5	1
BJTM	2019	6,30	2,70	18,00	71,40	5	1
BJTM	2020	5,50	4,00	18,70	77,70	5	1
BJTM	2021	5,10	4,40	17,20	75,90	5	1
ARTO	2017	5,00	2,30	2,00	270,00	6	2
ARTO	2018	4,80	2,10	1,00	261,00	6	2
ARTO	2019	2,00	2,00	0,10	258,00	6	2
ARTO	2020	4,70	0,00	0,20	261,10	6	2
ARTO	2021	7,40	0,50	1,20	98,20	6	2
BJBR	2017	5,30	1,50	20,00	82,20	7	1
BJBR	2018	6,70	1,60	18,80	84,20	7	1
BJBR	2019	6,00	1,00	8,00	88,00	7	1
BJBR	2020	5,80	0,50	7,20	92,10	7	1
BJBR	2021	5,50	1,60	9,00	95,00	7	1
BNGA	2017	5,60	3,70	9,30	83,40	8	2

BNGA	2018	5,10	3,10	8,00	80,90	8	2
BNGA	2019	5,30	2,70	9,30	82,40	8	2
BNGA	2020	4,80	3,60	5,00	89,30	8	2
BNGA	2021	4,80	3,40	10,20	78,30	8	2
BNLI	2017	4,00	4,60	4,80	94,80	9	2
BNLI	2018	4,10	4,40	5,00	93,40	9	2
BNLI	2019	4,50	2,80	7,20	85,70	9	2
BNLI	2020	4,60	2,90	3,10	88,00	9	2
BNLI	2021	4,00	3,20	2,90	90,10	9	2
BVIC	2017	2,10	4,50	2,00	96,00	10	2
BVIC	2018	1,80	4,00	2,00	96,30	10	2
BVIC	2019	1,70	3,90	0,20	99,80	10	2
BVIC	2020	0,80	4,70	-0,90	97,80	10	2
BVIC	2021	2,30	9,50	1,70	91,30	10	2

Sumber: Bursa Efek Indonesia



Lampiran 2 Hasil Statistik Deskriptif

. summarize

Variable	Obs	Mean	Std. dev.	Min	Max
KODEEMITEM	0				
TAHUN	50	2019	1.428571	2017	2021
NIM	50	4.868	1.641483	.8	7.9
X1NPL	50	3.01	1.668954	0	9.5
X2EQTA	50	9.642	7.210341	-.9	20.4
X3OE	50	99.928	57.77763	54.2	287.8
ID	50	5.5	2.901442	1	10
Dummy	50	1.7	.46291	1	2
_est_fe	50	1	0	1	1
_est_re	50	1	0	1	1
_est_model2	50	1	0	1	1
_est_model3	50	1	0	1	1
_est_model4	50	1	0	1	1
_est_model5	50	1	0	1	1
_est_model6	50	1	0	1	1
_est_model11	50	1	0	1	1

Lampiran 3 Hasil Pooled Least Square (Common Effect Model)

. reg NIM X1NPL X2EQTA X3OE // CE

Source	SS	df	MS	Number of obs	=	50
Model	85.7059309	3	28.5686436	F(3, 46)	=	28.37
Residual	46.3228691	46	1.00701889	Prob > F	=	0.0000
				R-squared	=	0.6491
				Adj R-squared	=	0.6263
Total	132.0288	49	2.69446531	Root MSE	=	1.0035

NIM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
X1NPL	-.3523	.0959197	-3.67	0.001	-.5453764	-.1592236
X2EQTA	.1339321	.0259188	5.17	0.000	.0817603	.1861039
X3OE	-.0018946	.0030819	-0.61	0.542	-.0080982	.0043089
_cons	4.826377	.6874529	7.02	0.000	3.442606	6.210148

Lampiran 4 Hasil *Fixed Effect Model*

. xtreg NIM X1NPL X2EQTA X3OE, fe //Fixed Effect

```
Fixed-effects (within) regression               Number of obs   =       50
Group variable: ID                            Number of groups =       10

R-squared:                                    Obs per group:
  Within   = 0.3470                               min       =         5
  Between  = 0.4333                               avg       =        5.0
  Overall  = 0.4158                               max       =         5

corr(u_i, Xb) = 0.0940                          F(3,37)         =        6.55
                                           Prob > F         =       0.0011
```

NIM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
X1NPL	-.0780283	.0919925	-0.85	0.402	-.2644227	.1083662
X2EQTA	.0639398	.0340505	1.88	0.068	-.0050531	.1329327
X3OE	-.0104633	.0028934	-3.62	0.001	-.0163259	-.0046007
_cons	5.531934	.5595273	9.89	0.000	4.398224	6.665644
sigma_u	1.1656739					
sigma_e	.66841861					
rho	.75255394	(fraction of variance due to u_i)				

F test that all u_i=0: F(9, 37) = 7.41 Prob > F = 0.0000

Lampiran 5 Hasil *Random Effect Model*

. xtreg NIM X1NPL X2EQTA X3OE, re //Random Effect

```
Random-effects GLS regression               Number of obs   =       50
Group variable: ID                            Number of groups =       10

R-squared:                                    Obs per group:
  Within   = 0.2854                               min       =         5
  Between  = 0.6678                               avg       =        5.0
  Overall  = 0.5832                               max       =         5

corr(u_i, X) = 0 (assumed)                    Wald chi2(3)     =       36.79
                                           Prob > chi2      =       0.0000
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X1NPL	-.2037768	.0923047	-2.21	0.027	-.3846907	-.0228628
X2EQTA	.096732	.0282902	3.42	0.001	.0412842	.1521798
X3OE	-.00731	.0028727	-2.54	0.011	-.0129404	-.0016797
_cons	5.279153	.6260157	8.43	0.000	4.052185	6.506121
sigma_u	.58851188					
sigma_e	.66841861					
rho	.43668298	(fraction of variance due to u_i)				

Lampiran 6 Hasil Uji Chow

```
. xtreg NIM X1NPL X2EQTA X3OE, fe //Fixed Effect
```

```
Fixed-effects (within) regression      Number of obs   =       50
Group variable: ID                    Number of groups =       10
```

```
R-squared:                            Obs per group:
  Within = 0.3470                      min =          5
  Between = 0.4333                     avg =         5.0
  Overall = 0.4158                     max =          5
```

```
corr(u_i, Xb) = 0.0940                 F(3,37)        =        6.55
                                         Prob > F       =        0.0011
```

NIM	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
X1NPL	-.0780283	.0919925	-0.85	0.402	-.2644227	.1083662
X2EQTA	.0639398	.0340505	1.88	0.068	-.0050531	.1329327
X3OE	-.0104633	.0028934	-3.62	0.001	-.0163259	-.0046007
_cons	5.531934	.5595273	9.89	0.000	4.398224	6.665644
sigma_u	1.1656739					
sigma_e	.66841861					
rho	.75255394	(fraction of variance due to u_i)				

```
F test that all u_i=0: F(9, 37) = 7.41          Prob > F = 0.0000
```

Lampiran 7 Hasil Uji Multikolinieritas

Variable	VIF	1/VIF
X1NPL	2.55	0.392161
X3OE	2.25	0.443481
X2EQTA	1.65	0.605531
Mean VIF	2.15	

Lampiran 8 Hasil Uji Hausman

```
. hausman fe re // Uji Hausman
```

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) Std. err.
	(b) fe	(B) re		
X1NPL	-.0780283	-.2037768	.1257485	.
X2EQTA	.0639398	.096732	-.0327922	.0189499
X3OE	-.0104633	-.00731	-.0031533	.0003458

b = Consistent under H0 and Ha; obtained from **xtreg**.
 B = Inconsistent under Ha, efficient under H0; obtained from **xtreg**.

Test of H0: Difference in coefficients not systematic

$$\begin{aligned} \text{chi2}(3) &= (b-B)'[(V_b-V_B)^{-1}](b-B) \\ &= 46.48 \end{aligned}$$

Prob > chi2 = 0.0000

(V_b-V_B is not positive definite)

Lampiran 9 Hasil analisis NPL

```
. xtreg NIM X1NPL, re
```

```
Random-effects GLS regression           Number of obs   =           50
Group variable: ID                     Number of groups =           10

R-squared:                               Obs per group:
  Within = 0.0444                        min =           5
  Between = 0.4814                       avg =           5.0
  Overall = 0.2901                       max =           5

Wald chi2(1) =           4.48
corr(u_i, X) = 0 (assumed)              Prob > chi2     =           0.0344
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X1NPL	-.2172767	.1026907	-2.12	0.034	-.4185466	-.0160067
_cons	5.522003	.4937767	11.18	0.000	4.554218	6.489787
sigma_u	1.1222531					
sigma_e	.78757687					
rho	.67001776	(fraction of variance due to u_i)				

```
. est store model1
```


Lampiran 10 Hasil analisis EQTA

```
. xtreg NIM X2EQTA, re
```

```
Random-effects GLS regression      Number of obs   =       50
Group variable: ID                 Number of groups =       10
```

```
R-squared:                          Obs per group:
  Within = 0.0949                      min =       5
  Between = 0.6870                      avg =      5.0
  Overall = 0.5433                      max =       5
```

```
Wald chi2(1) = 17.33
corr(u_i, X) = 0 (assumed)          Prob > chi2    = 0.0000
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X2EQTA	.1229829	.0295439	4.16	0.000	.0650779	.1808878
_cons	3.682199	.41097	8.96	0.000	2.876713	4.487685
sigma_u	.847088					
sigma_e	.76649414					
rho	.54982287	(fraction of variance due to u_i)				

```
. est store model2
```

Lampiran 11 Hasil analisis OE

```
. xtreg NIM X30E, re
```

```
Random-effects GLS regression      Number of obs   =       50
Group variable: ID                 Number of groups =       10
```

```
R-squared:                          Obs per group:
  Within = 0.2554                      min =       5
  Between = 0.0828                      avg =      5.0
  Overall = 0.1148                      max =       5
```

```
Wald chi2(1) = 14.35
corr(u_i, X) = 0 (assumed)          Prob > chi2    = 0.0002
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X30E	-.0108153	.0028547	-3.79	0.000	-.0164105	-.0052202
_cons	5.948755	.5666994	10.50	0.000	4.838044	7.059465
sigma_u	1.5330772					
sigma_e	.6952404					
rho	.82942379	(fraction of variance due to u_i)				

```
. est store model3
```

Lampiran 12 Hasil analisis regresi

```
. xtreg NIM X1NPL X2EQTA X3OE, re
```

```
Random-effects GLS regression           Number of obs   =       50
Group variable: ID                     Number of groups =       10

R-squared:                               Obs per group:
  Within = 0.2854                          min =           5
  Between = 0.6678                          avg =           5.0
  Overall = 0.5832                          max =           5

Wald chi2(3) =       36.79
corr(u_i, X) = 0 (assumed)               Prob > chi2    =       0.0000
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X1NPL	-.2037768	.0923047	-2.21	0.027	-.3846907	-.0228628
X2EQTA	.096732	.0282902	3.42	0.001	.0412842	.1521798
X3OE	-.00731	.0028727	-2.54	0.011	-.0129404	-.0016797
_cons	5.279153	.6260157	8.43	0.000	4.052185	6.506121
sigma_u	.58851188					
sigma_e	.66841861					
rho	.43668298	(fraction of variance due to u_i)				

```
. est store model4
```

```
. xtreg NIM X1NPL X2EQTA X3OE i.ID, re
```

```
Random-effects GLS regression           Number of obs   =       50
Group variable: ID                     Number of groups =       10

R-squared:                               Obs per group:
  Within = 0.3470                          min =           5
  Between = 1.0000                          avg =           5.0
  Overall = 0.8748                          max =           5

Wald chi2(12) =       258.51
corr(u_i, X) = 0 (assumed)               Prob > chi2    =       0.0000
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X1NPL	-.0780283	.0919925	-0.85	0.396	-.2583302	.1022737
X2EQTA	.0639398	.0340505	1.88	0.060	-.002798	.1306776
X3OE	-.0104633	.0028934	-3.62	0.000	-.0161343	-.0047923
ID						
2	1.396587	.4316789	3.24	0.001	.5505116	2.242662
3	-.1962246	.4788439	-0.41	0.682	-1.134741	.7422923
4	-.8959773	.6765958	-1.32	0.185	-2.222081	.4301262
5	.5214717	.4689612	1.11	0.266	-.3976754	1.440619
6	1.79191	.8689076	2.06	0.039	.0888821	3.494937
7	.6337983	.4748551	1.33	0.182	-.2969005	1.564497
8	.268721	.5410179	0.50	0.619	-.7916546	1.329097
9	-.2701241	.6249697	-0.43	0.666	-1.495042	.9547939
10	-2.343066	.741606	-3.16	0.002	-3.796587	-.8895449
_cons	5.441224	.7541226	7.22	0.000	3.963171	6.919278
sigma_u	0					
sigma_e	.66841861					
rho	0	(fraction of variance due to u_i)				

```
. est store model5
```

```
. xtreg NIM X1NPL X2EQTA X3OE i.TAHUN, re
```

```
Random-effects GLS regression           Number of obs   =       50
Group variable: ID                     Number of groups =       10

R-squared:                               Obs per group:
  Within = 0.3267                        min =           5
  Between = 0.6727                       avg =          5.0
  Overall = 0.5901                       max =           5

Wald chi2(7) =       36.27
Prob > chi2   =       0.0000

corr(u_i, X) = 0 (assumed)
```

NIM	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
X1NPL	-.2236348	.0981333	-2.28	0.023	-.4159726	-.0312971
X2EQTA	.0874472	.0327538	2.67	0.008	.0232508	.1516435
X3OE	-.0075698	.0029739	-2.55	0.011	-.0133985	-.0017411
TAHUN						
2018	-.1250657	.3490836	-0.36	0.720	-.8092569	.5591256
2019	-.3700976	.3547482	-1.04	0.297	-1.065391	.3251961
2020	-.241159	.3844966	-0.63	0.531	-.9947586	.5124406
2021	-.0318786	.3567657	-0.09	0.929	-.7311266	.6673694
_cons	5.608055	.7546747	7.43	0.000	4.128919	7.08719
sigma_u	.58786885					
sigma_e	.67124187					
rho	.43407326	(fraction of variance due to u_i)				

```
. est store model6
```

LAMPIRAN 13 Analisis Regresi

	(1)	(2)	(3)	(4)	(5)	(6)
	model1	model2	model3	model4	model5	model6
VARIABLES	NIM	NIM	NIM	NIM	NIM	NIM
X1NPL	-0.217**			-0.204**	-0.0780	-0.224**
	(0.103)			(0.0923)	(0.0920)	(0.0981)
X2EQTA		0.123***		0.0967***	0.0639*	0.0874***
		(0.0295)		(0.0283)	(0.0341)	(0.0328)
X3OE			-0.0108***	-0.00731**	-0.0105***	-0.00757**
			(0.00285)	(0.00287)	(0.00289)	(0.00297)
2.ID					1.397***	
					(0.432)	

3.ID							-0.196 (0.479)
4.ID							-0.896 (0.677)
5.ID							0.521 (0.469)
6.ID							1.792** (0.869)
7.ID							0.634 (0.475)
8.ID							0.269 (0.541)
9.ID							-0.270 (0.625)
10.ID							-2.343*** (0.742)
2018.TAHUN							-0.125 (0.349)
2019.TAHUN							-0.370 (0.355)
2020.TAHUN							-0.241 (0.384)
2021.TAHUN							-0.0319 (0.357)
Constant	5.522*** (0.494)	3.682*** (0.411)	5.949*** (0.567)	5.279*** (0.626)	5.441*** (0.754)	5.608*** (0.755)	



Observations	50	50	50	50	50	50
Number of ID	10	10	10	10	10	10
Adj. R ²	0.327	0.327	0.327	0.327	0.327	0.327

Standard errors in parentheses



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