Lampiran 8. Regresi Linier Berganda

A. Kebutuhan Ruang Parkir Kendaraan Roda Dua

1. Uji Multikolinearitas

a. Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.997[a]	.995	.990	2.75134

b. Anova

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	12923.292	9	1435.921	189.689	.000[a]
	Residual	68.129	9	7.570		
	Total	12991.421	18			

c. Coeffients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	12.994	5.465		2.378	.041		
	Luas Bangunan	.000	.001	.012	.494	.633	.923	1.084
	Jumlah Lantai Bangunan	.184	.133	.050	1.375	.202	.438	2.282
	Jenis Sarana	-2.109	1.308	-.049	-1.612	.141	.636	1.571
	Jumlah Petak Parkir	.853	.060	.763	14.317	.000	.205	4.878
	Akumulasi Parkir	.483	.074	.226	6.511	.000	.482	2.076
	Durasi Parkir	1.088	.231	.241	4.712	.001	.222	4.499
	Tingkat Pergantian Parkir	10.163	3.137	.194	3.240	.010	.163	6.132
	Indeks Parkir	-.710	.083	-.490	-8.559	.000	.177	5.634
	Kinerja Jalan	-13.079	3.393	-.138	-3.854	.004	.453	2.207

d. Collinearity Diagnostocs

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions									
				(Constant)	Luas Bangunan	Jumlah Lantai Bangunan	Jenis Sarana	Jumlah Petak Parkir	Akumulasi Parkir	Durasi Parkir	Tingkat Pergantian Parkir	Indeks Parkir	Kinerja Jalan
1	1	8.644	1.000	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	2	.478	4.251	.00	.01	.09	.00	.00	.01	.00	.00	.01	.04
	3	.365	4.863	.00	.00	.00	.00	.05	.02	.00	.03	.00	.01
	4	.193	6.691	.00	.78	.00	.00	.00	.00	.00	.00	.01	.06
	5	.121	8.438	.00	.13	.27	.05	.00	.00	.00	.02	.00	.29
	6	.091	9.745	.00	.02	.17	.36	.02	.00	.00	.00	.05	.01
	7	.059	12.141	.00	.02	.02	.01	.05	.86	.03	.02	.03	.00
	8	.024	18.982	.19	.05	.16	.17	.16	.06	.01	.24	.27	.01
	9	.017	22.852	.09	.00	.28	.29	.53	.03	.42	.10	.06	.10
	10	.007	34.386	.71	.00	.01	.11	.19	.02	.53	.58	.57	.47

2. Metode Stepwise

a. Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.935[a]	.874	.867	9.79955
2	.952[b]	.907	.895	8.68624
3	.970[c]	.940	.928	7.20146
4	.988[d]	.976	.969	4.71410
5	.992[e]	.983	.977	4.08399

b. Anova

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	11358.890	1	11358.890	118.283	.000[a]
	Residual	1632.531	17	96.031		
	Total	12991.421	18			
2	Regression	11784.210	2	5892.105	78.092	.000[b]
	Residual	1207.211	16	75.451		

Model		Sum of Squares	df	Mean Square	F	Sig.
	Total	12991.421	18			
3	Regression	12213.505	3	4071.168	78.501	.000[c]
	Residual	777.916	15	51.861		
	Total	12991.421	18			
4	Regression	12680.302	4	3170.076	142.650	.000[d]
	Residual	311.119	14	22.223		
	Total	12991.421	18			
5	Regression	12774.594	5	2554.919	153.182	.000[e]
	Residual	216.827	13	16.679		
	Total	12991.421	18			
6	Regression	12893.079	6	2148.847	262.210	.000[f]
	Residual	98.342	12	8.195		
	Total	12991.421	18			

c. Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	12.094	5.059		2.391	.029		
	Jumlah Petak Parkir	1.045	.096	.935	10.876	.000	1.000	1.000
2	(Constant)	25.165	7.100		3.544	.003		
	Jumlah Petak Parkir	.989	.088	.885	11.190	.000	.929	1.077
	Kinerja Jalan	-17.768	7.484	-.188	-2.374	.030	.929	1.077
3	(Constant)	42.114	8.328		5.057	.000		
	Jumlah Petak Parkir	.958	.074	.857	12.941	.000	.909	1.100
	Kinerja Jalan	-24.317	6.609	-.257	-3.680	.002	.818	1.222
	Indeks Parkir	-.281	.098	-.194	-2.877	.012	.879	1.137
4	(Constant)	35.258	5.653		6.237	.000		
	Jumlah Petak Parkir	.811	.058	.725	13.936	.000	.631	1.584
	Kinerja Jalan	-19.969	4.429	-.211	-4.509	.000	.781	1.281
	Indeks Parkir	-.388	.068	-.268	-5.707	.000	.775	1.291
	Akumulasi Parkir	.545	.119	.256	4.583	.000	.549	1.823
5	(Constant)	27.629	5.855		4.719	.000		
	Jumlah Petak Parkir	.764	.054	.683	14.106	.000	.547	1.828
	Kinerja Jalan	-16.408	4.119	-.173	-3.984	.002	.678	1.476

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
	Indeks Parkir	-.500	.075	-.345	-6.631	.000	.473	2.113
	Akumulasi Parkir	.497	.105	.233	4.734	.000	.528	1.893
	Durasi Parkir	.672	.283	.149	2.378	.033	.327	3.057
6	(Constant)	12.968	5.631		2.303	.040		
	Jumlah Petak Parkir	.894	.051	.800	17.499	.000	.302	3.311
	Kinerja Jalan	-11.866	3.125	-.125	-3.798	.003	.579	1.728
	Indeks Parkir	-.680	.071	-.470	-9.587	.000	.263	3.803
	Akumulasi Parkir	.460	.074	.216	6.191	.000	.519	1.926
	Durasi Parkir	.865	.204	.192	4.229	.001	.307	3.258
	Tingkat Pergantian Parkir	10.322	2.715	.197	3.802	.003	.236	4.242

d. Excluded Variables

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Luas Bangunan	.065[a]	.742	.469	.182	.998	1.002	.998
	Jumlah Lantai Bangunan	-.040[a]	-.451	.658	-.112	.993	1.007	.993
	Jenis Sarana	.108[a]	1.284	.218	.306	1.000	1.000	1.000
	Akumulasi Parkir	.201[a]	2.153	.047	.474	.697	1.434	.697
	Durasi Parkir	.069[a]	.727	.478	.179	.833	1.201	.833
	Tingkat Pergantian Parkir	.032[a]	.289	.776	.072	.646	1.548	.646
	Indeks Parkir	-.108[a]	-1.284	.217	-.306	.998	1.002	.998
2	Kinerja Jalan	-.188[a]	-2.374	.030	-.510	.929	1.077	.929
	Luas Bangunan	.060[b]	.782	.447	.198	.997	1.003	.927
	Jumlah Lantai Bangunan	.068[b]	.761	.459	.193	.744	1.344	.696
	Jenis Sarana	.090[b]	1.190	.253	.294	.988	1.012	.918
	Akumulasi Parkir	.146[b]	1.581	.135	.378	.623	1.606	.623
	Durasi Parkir	-.042[b]	-.422	.679	-.108	.618	1.618	.618
	Tingkat Pergantian Parkir	-.094[b]	-.870	.398	-.219	.504	1.982	.489
	Indeks Parkir	-.194[b]	-2.877	.012	-.596	.879	1.137	.818
3	Luas Bangunan	.045[c]	.697	.497	.183	.990	1.010	.816
	Jumlah Lantai Bangunan	.004[c]	.046	.964	.012	.674	1.484	.674
	Jenis Sarana	.067[c]	1.051	.311	.270	.971	1.030	.801
	Akumulasi Parkir	.256[c]	4.583	.000	.775	.549	1.823	.549

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
	Durasi Parkir	.206[c]	2.107	.054	.491	.340	2.944	.340
	Tingkat Pergantian Parkir	.173[c]	1.421	.177	.355	.253	3.953	.253
4	Luas Bangunan	.028[d]	.660	.521	.180	.982	1.019	.544
	Jumlah Lantai Bangunan	.054[d]	1.052	.312	.280	.645	1.551	.525
	Jenis Sarana	.044[d]	1.052	.312	.280	.957	1.045	.540
	Durasi Parkir	.149[d]	2.378	.033	.551	.327	3.057	.327
	Tingkat Pergantian Parkir	.142[d]	1.874	.084	.461	.251	3.981	.251
5	Luas Bangunan	.034[e]	.930	.371	.259	.977	1.023	.326
	Jumlah Lantai Bangunan	.088[e]	2.151	.053	.528	.600	1.666	.304
	Jenis Sarana	.015[e]	.360	.725	.103	.831	1.204	.284
	Tingkat Pergantian Parkir	.197[e]	3.802	.003	.739	.236	4.242	.236
6	Luas Bangunan	.014[f]	.526	.609	.157	.934	1.071	.225
	Jumlah Lantai Bangunan	.039[f]	1.053	.315	.303	.467	2.140	.184
	Jenis Sarana	-.038[f]	-1.288	.224	-.362	.673	1.487	.186

B. Kebutuhan Ruang Parkir Kendaraan Roda Empat

1. Uji Multikolinearitas

a. Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.991[a]	.983	.829	12.10107

b. Anova

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	8417.746	9	935.305	6.387	.298[a]
	Residual	146.436	1	146.436		
	Total	8564.182	10			

c. Coeffients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	-106.257	55.405		-1.918	.306		
	Luas Bangunan	-.020	.015	-.608	-1.337	.409	.083	12.091
	Jumlah Lantai Bangunan	-.955	1.531	-.237	-.624	.645	.119	8.414
	Jenis Sarana	94.067	31.315	2.033	3.004	.205	.037	26.786
	Jumlah Petak Parkir	16.461	5.481	1.596	3.003	.205	.061	16.524
	Akumulasi Parkir	-.870	2.259	-.124	-.385	.766	.164	6.087
	Durasi Parkir	1.396	2.161	.337	.646	.635	.063	15.915
	Tingkat Pergantian Parkir	-10.078	20.149	-.299	-.500	.705	.048	20.957
	Indeks Parkir	-.983	.452	-1.721	-2.175	.274	.027	36.621
	Kinerja Jalan	59.282	25.332	.541	2.340	.257	.320	3.122

d. Collinearity Diagnostocs

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions								
				(Constant)	Luas Bangunan	Jumlah Lantai Bangunan	Jenis Sarana	Jumlah Petak Parkir	Akumulasi Parkir	Durasi Parkir	Tingkat Pergantian Parkir	Indeks Parkir
1	1	9.150	1.000	.00	.00	.00	.00	.00	.00	.00	.00	.00
	2	.383	4.887	.00	.00	.00	.00	.00	.00	.00	.00	.00
	3	.171	7.315	.00	.01	.01	.00	.02	.00	.00	.00	.00
	4	.114	8.970	.00	.00	.03	.00	.00	.11	.01	.00	.00
	5	.077	10.898	.01	.00	.04	.00	.01	.02	.00	.02	.01
	6	.065	11.865	.00	.00	.07	.00	.00	.02	.00	.00	.00
	7	.028	17.997	.05	.01	.01	.01	.00	.06	.02	.05	.02
	8	.008	33.358	.00	.64	.21	.00	.12	.36	.00	.01	.02
	9	.002	74.082	.23	.23	.05	.89	.65	.31	.27	.48	.06
	10	.002	77.676	.71	.10	.58	.09	.19	.13	.68	.43	.89

2. Metode Stepwise

a. Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.683[a]	.467	.408	22.51866
2	.842[b]	.710	.637	17.63463

b. Anova

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	4000.373	1	4000.373	7.889	.020[a]
	Residual	4563.809	9	507.090		
	Total	8564.182	10			
2	Regression	6076.342	2	3038.171	9.770	.007[b]
	Residual	2487.840	8	310.980		
	Total	8564.182	10			

c. Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
		B	Std. Error	Beta			Tolerance	VIF
1	(Constant)	109.176	16.406		6.655	.000		
	Indeks_Parkir	-.390	.139	-.683	-2.809	.020	1.000	1.000
2	(Constant)	76.618	17.996		4.258	.003		
	Indeks_Parkir	-.394	.109	-.689	-3.616	.007	1.000	1.000
	Akumulasi Parkir	3.447	1.334	.492	2.584	.032	1.000	1.000

d. Excluded Variables

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
1	Luas Bangunan	.198[a]	.793	.451	.270	.987	1.013	.987
	Jumlah Lantai Bangunan	.210[a]	.844	.423	.286	.990	1.010	.990

Model		Beta In	t	Sig.	Partial Correlation	Collinearity Statistics		
						Tolerance	VIF	Minimum Tolerance
	Jenis Sarana	-.089[a]	-.237	.819	-.083	.468	2.138	.468
	Jumlah Petak Parkir	.485[a]	2.378	.045	.644	.938	1.066	.938
	Akumulasi Parkir	.492[a]	2.584	.032	.674	1.000	1.000	1.000
	Durasi Parkir	-.092[a]	-.246	.812	-.087	.477	2.098	.477
	Tingkat Pergantian Parkir	.213[a]	.544	.601	.189	.418	2.390	.418
	Kinerja Jalan	.268[a]	1.118	.296	.368	.999	1.001	.999
2	Luas Bangunan	-.094[b]	-.391	.707	-.146	.704	1.421	.704
	Jumlah Lantai Bangunan	.063[b]	.293	.778	.110	.895	1.117	.895
	Jenis Sarana	-.161[b]	-.551	.599	-.204	.463	2.159	.463
	Jumlah Petak Parkir	.289[b]	1.249	.252	.427	.633	1.580	.633
	Durasi Parkir	.277[b]	.890	.403	.319	.384	2.606	.384
	Tingkat Pergantian Parkir	-.125[b]	-.364	.726	-.136	.346	2.890	.346
	Kinerja Jalan	.119[b]	.565	.590	.209	.891	1.122	.891