

LAMPIRAN DAFTAR BANK YANG TERDAFTAR DI BEI DAN TAHUN PENGGUNAAN ERP

Kode saham	Nama Emiten	Tanggal IPO	thn penggunaannya	Laporan keuangan	ERP yang digunakan
AGRO	Bank Rakyat Indoensia Agro Niaga,Tbk	08-Agu-03			
AGRS	Bank Agris Tbk	22-Des-14			
ARTO	Bank Artos Indonesia Tbk	12-Jan-16			
BABP	Bank MNC Internasional Tbk	15-Jul-02	2009	Tersedia	Silverlake Core banking
BACA	Bank Capital Indonesia TBk	08-Okt-07	2004	Tidak tersedia sebelum tahun 2007	Core banking
BBCA	Bank Central Asia Tbk	31-Mei-00	2005	Tersedia	SAP (EMV, EDC, IPS)
BBHI	Bank Harda Internasional Tbk	12-Agu-15			
BBKP	Bank Bukopin Tbk	10-Jul-06	2009	Tersedia	EMV, ITMS , M-ELP (Micro

					Electronic Loan Processing)
BBMD	Bank Mestika Dharma Tbk	08-Jul-13			
BBNI	Bank Negara Indonesia (Persero) Tbk	25-Nov-96	2005	tersedia	
BBNP	Bank Nusantara Parahyangan Tbk	10-Jan-01	2009	tersedia	
BBRI	Bank Rakyat Indonesia (Persero) Tbk	10-Nov-03	2007	tersedia	SAP-Core banking
BBTN	Bank Tabungan Negara (Persero) Tbk	17-Dec-09	2002	LK tahun 2000 tidak tersedia	Core banking - silverlake
BBYB	Bank Yudha Bhakti Tbk	13-Jan-15	2013	Tidak tersedia sebelum 2013	core banking alphabit
BCIC	Bank J Trust Indonesia Tbk	25-Jun-97	2007	Tdk tersedia sblum 2007	Core banking
BDMN	Bank Danamon Indonesia Tbk	06-Dec-89	2005	Tersedia	SAP- core banking
BEKS	Bank Pundi Indonesia	13-Jul-01			

	Tbk				
BGTB	Bank Ganesha Tbk	12-Mei-16	2011	tidak tersedia sebelum 2010	SAP-Core Banking
BINA	Bank Ina Perdana Tbk	16-Jan-14			
BJBR	Bank Jabar Banten Tbk	08-Jul-10	2007	Tidak tersedia sebelum 2007	SAP- core banking
BJTM	Bank Pembangunan Daerah Jawa Timur Tbk	12-Jul-12			
BKSW	Bank QNB Indonesia Tbk	21-Nov-02	2002	tidak tersedia	
BMAS	Bank Maspion Indonesia Tbk	11-Jul-13			
BMRI	Bank Mandiri (Persero) Tbk	14-Jul-03	2005	Tersedia	SAP- core banking
BNBA	Bank Bumi Arta Tbk	31-Des-99	2001	Tidak Tersedia	
BNGA	Bank CIMB Niaga Tbk	29-Nov-89	2005	sebelum 2007 Tdk tersedia	SAP-core banking

BNII	Bank MAYBANK Indonesia Tbk	21-Nov- 89	2009	Tersedia	Core Banking
BNLI	Bank Permata Tbk	15-Jan- 90	2010	Tersedia	SAP-core banking
BSIM	Bank Sinar Mas Tbk	13-Des- 10	2007	Tidak tersedia sebelum 2010	
BSWD	Bank of India Indonesia Tbk	01-Mei- 02	2010	Tersedia	SAP-core banking
BTPN	Bank Tabungan Pensiunan Nasional Tbk	12-Mar- 08	2008	Tidak tersedia sebelum 2008	SAP-core banking
BVIC	Bank victoria International Tbk	30-Jun- 99			
DNAR	Bank Dinar Indonesia Tbk	11-Jul-14	Tdk ditemukan		
INPC	Bank Artha Internasional Tbk	29-Agu- 90	Tdk ditemukan	LK Tidak tersedia sebelum 2008	SAP
MAY A	Bank Mayapada International Tbk	29-Agu- 97	2009	Tersedia	Core banking

MCOR	Bank Windhu Kentjana International Tbk	03-Jul-07	2011		
MEGA	Bank Mega Tbk	17-Apr-00	2007	tidak tersedia sebelum 2007	Loss Event Recording System (LERS)
NAGA	Bank Mitraniaga Tbk	09-Jul-13			
NISP	Bank OCBC NISP Tbk	20-Okt-94	Tdk disebutkan	LK sebelum 2008 tdk tersedia	SAP
NOBU	Bank Nationalnobu Tbk	20-Mei-13	2010	tidak tersedia sebelum 2010	Bank vision core banking
PNBN	Bank Pan Indoensia Tbk	29-Des-82	2007		SAP - Core Banking IBM System
PNBS	Bank Panin Syariah Tbk	15-Jan-14	2012	Tersedia	Core Banking iBank Sharia
SDRA	Bank Woori Saudara Indoensia 1906 Tbk	15-Des-06	2005	Laporan keuangan 2002 - 2006 tidak tersedia	SAP-Core Banking

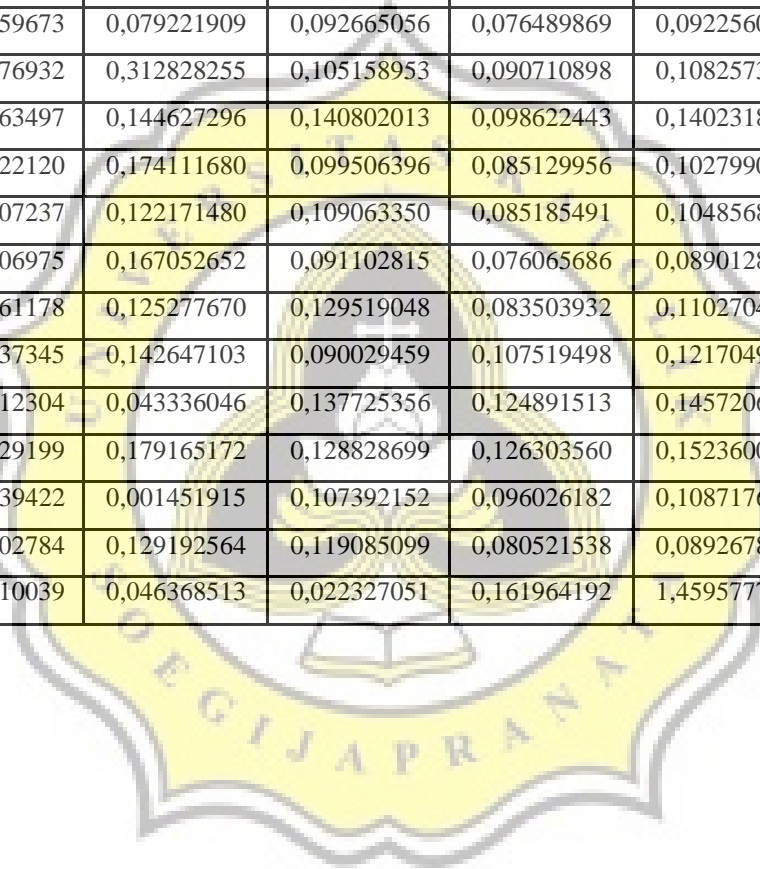
LAMPIRAN DATA RASIO KEUANGAN PERBANKAN KESELURUHAN 3 TAHUN SEBELUM DAN 3 TAHUN SESUDAH PENERAPAN											
ERP											
Per	THN	GPM	NPM	ROA	ROE	QR	PR	CAR	LMR	AUR	OR
BCA	-3	0,232118273	0,167452256	0,021666263	0,220852614	0,084957367	0,098102814	0,110756324	10,193387505	0,129694614	0,767881727
BBNI	-3	0,152508923	0,154555230	0,019968166	0,304772809	0,082628253	0,065518199	0,082817814	15,262934806	0,129479408	0,847491077
BBRI	-3	0,389668648	0,214001222	0,029592432	0,272091133	0,222111397	0,108759267	0,160485983	9,194618775	0,142445022	0,614278140
BDMN	-3	0,134315325	0,127063198	0,020216900	0,203834154	0,089027360	0,099183085	0,131682078	10,082364385	0,159727755	0,871348783
BMRI	-3	0,104176902	0,107062731	0,014319749	0,248403929	0,108580934	0,057647029	0,073298452	17,346947628	0,138693405	0,895823098
BNLI	-3	0,232848924	0,097412586	0,012698347	0,127867392	0,113829641	0,022823206	0,125583288	10,069609417	0,131274072	0,767151076
BBKP	-3	0,180566032	0,097329473	0,009989053	0,188978077	0,106651313	0,052858266	0,064652968	18,918516933	0,102631332	0,819433968
BNII	-3	0,235302138	0,084508617	0,011427998	0,116055099	0,118567081	0,098470452	0,133805440	10,155330677	0,135666197	0,764697862
MAYA	-3	0,122370395	0,144120693	0,019109076	0,190432710	0,099155886	0,100345553	0,121600961	9,965563681	0,132615649	0,880895207
MCOR	-3	0,044608618	0,016588518	0,001742999	0,013935646	0,138145201	0,125074893	0,151888123	7,995209741	0,106660492	0,993202842
BSWD	-3	0,093215230	0,078178928	0,007267416	0,068080632	0,089678246	0,106747190	0,123525993	9,367928070	0,093894192	0,906784770
BABP	-3	0,314771867	0,008531243	0,001463988	0,015277037	0,118030115	0,095829320	0,108690073	10,435219668	0,171897480	0,686413483
BBNP	-3	0,473744695	0,083394284	0,009063506	0,108558593	0,134100195	0,083489533	0,094894914	11,977549399	0,108747823	0,527192345
PNBS	-3	-0,305104187	-0,569292124	-0,014129379	-0,015170838	3,393939394	0,931351261	456,218181818	1,073708752	0,035249213	1,399158861
BCA	-2	0,237949603	0,175630602	0,017941268	0,189367979	0,081373807	0,094742884	0,106768178	10,554882382	0,102300511	0,762050397
BBNI	-2	0,049904421	0,054094369	0,006305671	0,082776465	0,097832790	0,076177104	0,093660349	13,127303935	0,118130229	0,950095579

BBRI	-2	0,317779197	0,211843249	0,035580913	0,305903379	0,219466885	0,116314219	0,126749802	8,597401154	0,170852668	0,683006749
BDMN	-2	0,410225212	0,201539716	0,029034161	0,224205714	0,095407003	0,129497862	0,169619696	7,722135194	0,149676959	0,831777182
BMRI	-2	0,199979046	0,168416448	0,018385867	0,224860917	0,139361047	0,081765509	0,107068701	12,230095721	0,109714271	0,800020954
BNLI	-2	0,179112353	0,083207501	0,008368720	0,105489544	0,093203668	0,079332222	0,099623688	12,605218597	0,103053223	0,820887647
BBKP	-2	0,163449701	0,107853031	0,010890207	0,190923929	0,138750179	0,057039508	0,065161904	17,531707920	0,101422344	0,836550299
BNII	-2	0,213585005	0,052830110	0,006413225	0,067091878	0,116779566	0,095588690	0,133953349	10,461488743	0,122432139	0,786414995
MAYA	-2	0,137775093	0,035776542	0,004067657	0,019330145	0,083006369	0,210430767	0,317926795	4,752156788	0,113750186	0,862224907
MCOR	-2	0,080835703	0,060111477	0,005741237	0,053315947	0,100606498	0,107683304	0,123350895	9,286490683	0,096532391	0,924371540
BSWD	-2	0,445931307	0,144240852	0,014134619	0,067998708	0,079442252	0,207865993	0,268152430	4,810791726	0,097993174	0,750258930
BABP	-2	0,249969228	0,018204475	0,003253479	0,038470795	0,129769974	0,084570103	0,095757319	11,824509640	0,178969060	0,555513137
BBNP	-2	0,344459799	0,068310108	0,008441660	0,102190877	0,133933922	0,082606790	0,092445896	12,105542409	0,123596165	0,657021787
PNBS	-2	0,027133324	-1,365505425	-0,015637229	-0,050028247	0,095988445	0,312567989	9,413630097	3,199303943	0,058531151	0,991471121
BBCA	-1	0,355008075	0,241545126	0,021421504	0,229467072	0,101817240	0,093353282	0,105507274	10,711996157	0,089032809	0,644991925
BBNI	-1	0,213729201	0,212407449	0,022978118	0,243896141	0,126971961	0,094212718	0,118185535	10,614278201	0,108059707	0,786270799
BBRI	-1	0,338038025	0,188558453	0,027516941	0,252243642	0,315816747	0,013967694	0,011404760	9,166849105	0,110139368	0,997308441
BDMN	-1	0,451876572	0,311484112	0,040939239	0,308572090	0,098397073	0,132673176	0,188851554	7,537318635	0,269220083	0,591416618
BMRI	-1	0,272769059	0,243204702	0,021178753	0,210775727	0,101572973	0,100480038	0,132717852	9,952225506	0,087099748	0,837338125
BNLI	-1	0,184275317	0,070045729	0,008572673	0,099297655	0,079236967	0,086333084	0,104948664	11,583044981	0,122869930	0,815724683
BBKP	-1	0,179043215	0,100178663	0,011300809	0,170481521	0,092682113	0,066287587	0,075508886	15,085780709	0,113718991	0,829038882
BNII	-1	0,233572762	0,066576792	0,008450742	0,096764799	0,111971846	0,087332807	0,112515079	11,450450706	0,131184946	0,766427238
MAYA	-1	0,108253845	0,029969605	0,003480374	0,020188713	0,067694605	0,172392079	0,238777124	5,800730553	0,116158207	0,891746155
MCOR	-1	0,097504184	0,072956017	0,006497476	0,054261440	0,138964955	0,119743895	0,138773596	8,351156457	0,090206133	0,904669567

BSWD	-1	0,509251464	0,194506441	0,024034592	0,122158209	0,141210296	0,196749705	0,249726040	5,082599755	0,123674219	0,490748536
BABP	-1	0,339805139	0,001828957	0,000306263	0,003813385	0,086010719	0,080312611	0,090717551	12,451344633	0,167485692	0,677499059
BBNP	-1	0,119371288	0,084177296	0,007676850	0,083418588	0,138027619	0,092028047	0,103057463	10,866252533	0,091405635	0,881477470
PNBS	-1	0,590915160	0,123280904	0,009079752	0,020399506	0,105155504	0,445096659	23,737819269	2,246703004	0,073769911	0,409218362
BBCA	0	0,348224489	0,233635573	0,023953802	0,227006061	0,146241190	0,105520540	0,122031608	9,476827953	0,103322875	0,651775511
BBNI	0	0,149008500	0,093046555	0,009571192	0,118936463	0,124090690	0,080473151	0,100894334	12,426504807	0,102797999	0,850991500
BBRI	0	0,379703379	0,193396220	0,023746546	0,248898644	0,328398357	0,095406488	0,116246139	10,481467421	0,096544415	0,620606583
BDMN	0	0,330313091	0,202071130	0,029544188	0,233229592	0,111249663	0,126674269	0,177911886	7,894263014	0,149504552	0,720109215
BMRI	0	0,182036810	0,026096079	0,002290840	0,025990792	0,110436656	0,088140432	0,108943968	11,345530995	0,087955598	0,927057367
BNLI	0	0,224584544	0,146850552	0,013502270	0,125882864	0,101995916	0,107260588	0,132120440	9,323088897	0,094131394	0,775415456
BBKP	0	0,129462533	0,087807623	0,009744543	0,142536449	0,083269664	0,068365272	0,076374743	14,627309587	0,110976050	0,872031887
BNII	0	0,278898058	0,003762286	0,000672000	0,007790325	0,179811381	0,086260842	0,108403318	11,975484027	0,178651025	0,721101942
MAYA	0	0,077717257	0,045924321	0,005386547	0,041366987	0,063634913	0,130213669	0,164110924	7,679685274	0,122652613	0,922282743
MCOR	0	0,089939594	0,067329663	0,005612143	0,064942238	0,099126282	0,086417450	0,095485519	11,571737017	0,085243384	0,910060406
BSWD	0	0,328960944	0,198863622	0,016867741	0,110104921	0,103100282	0,153196975	0,153196975	6,527544016	0,084898995	0,672952343
BABP	0	0,345472446	0,004416561	0,000719905	0,009342071	0,101951694	0,077060527	0,085375053	12,976812378	0,163023174	0,663070613
BBNP	0	0,108630985	0,108630985	0,011367491	0,119894899	0,133088872	0,094812135	0,105780087	10,547173103	0,104774498	0,900365548
PNBS	0	0,735144424	0,229930215	0,016408029	0,071887464	0,013685824	0,228246035	2,605034161	4,381237120	0,071461067	0,265386835
BBCA	1	0,340269806	0,218961061	0,023997300	0,234826339	0,157723578	0,102191687	0,117070785	9,785531810	0,109923829	0,659730194
BBNI	1	0,222263875	0,107559215	0,011367491	0,130174056	0,239028135	0,087325319	0,107095368	11,451432511	0,106741244	0,777736125
BBRI	1	0,365297462	0,194515327	0,024213439	0,266513788	0,098156818	0,090852483	0,109089689	11,006853830	0,126414826	0,634702538
BDMN	1	0,195017317	0,107196468	0,016148271	0,140366686	0,090843608	0,115043474	0,160131698	8,692366188	0,152484334	0,853578240

BMRI	1	0,388042144	0,082301054	0,009051400	0,091926477	0,121989914	0,098463466	0,123146602	10,156051156	0,110428036	0,611957856
BNLI	1	0,113918898	0,148089767	0,011417611	0,126625620	0,112352221	0,090168251	0,108620061	11,090378196	0,078279616	0,886081102
BBKP	1	0,180147991	0,113232551	0,010376239	0,170390096	0,091146998	0,060896960	0,067242346	16,421181082	0,092284976	0,819852009
BNII	1	0,090390118	0,062584627	0,007069386	0,071204189	0,093671067	0,099283282	0,122704825	10,072189147	0,113258538	0,909609882
MAYA	1	0,118942438	0,071760388	0,007617504	0,051876946	0,091583843	0,146837952	0,183290720	6,810228466	0,106204535	0,881091925
MCOR	1	0,153123760	0,151133408	0,014484594	0,124500936	0,112195762	0,116341244	0,134080222	8,595404048	0,095956797	0,846876240
BSWD	1	0,371136637	0,250750929	0,030612811	0,138741384	0,181569935	0,220646573	0,220646573	4,532134742	0,122084537	0,631417910
BABP	1	0,048205731	0,031083789	0,003253748	0,040246205	0,087960621	0,080846091	0,091297957	12,369181893	0,104713443	0,957110831
BBNP	1	0,139453412	0,139453412	0,011995407	0,122946650	0,107776583	0,097565949	0,109751900	10,249477519	0,086092178	0,861788197
PNBS	1	0,705943244	0,075176521	0,005263657	0,040555567	0,014194775	0,129788763	1,418111458	7,704827290	0,070038748	0,294056756
BBCA	2	0,341164376	0,234137587	0,020592426	0,219612126	0,150882491	0,093767254	0,106892060	10,664703884	0,088272899	0,658835624
BBNI	2	0,208929810	0,047240880	0,004897568	0,052145740	0,146767523	0,093920768	0,114802987	10,647272336	0,104836692	0,791070190
BBRI	2	0,371973793	0,189315720	0,023058402	0,268121578	0,115654105	0,085999800	0,104683819	11,627934063	0,125996745	0,628026207
BDMN	2	0,245945041	0,151683612	0,023676536	0,195405524	0,093157342	0,121166155	0,173576714	8,253129729	0,158809076	0,792260773
BMRI	2	0,086720860	0,164538403	0,013620872	0,148620703	0,140514596	0,091648551	0,115695171	10,911247238	0,083159863	0,913279140
BNLI	2	0,130986795	0,147801359	0,010380475	0,109489678	0,111490599	0,094807794	0,116868980	10,547656067	0,071267042	0,869013205
BBKP	2	0,203039908	0,141125279	0,012966651	0,169515790	0,089209436	0,076492289	0,089190901	13,073213104	0,092024052	0,796960092
BNII	2	0,094649376	0,065987132	0,007070188	0,084372108	0,126777817	0,083797698	0,110890323	11,933502037	0,107384234	0,905350624
MAYA	2	0,189499198	0,124674047	0,013224676	0,102954959	0,096131749	0,128451081	0,155771238	7,785064904	0,106119186	0,810504534
MCOR	2	0,153283215	0,114910683	0,009890600	0,075630276	0,146718406	0,130775674	0,153630898	7,646682036	0,086919970	0,846716785
BSWD	2	0,371040632	0,251945478	0,021645749	0,147139619	0,131614682	0,147110267	0,181671389	6,797622065	0,086038770	0,632325417
BABP	2	0,380431926	-0,106677939	-0,013058787	-0,152989789	0,117114927	0,085357246	0,097176528	11,715466998	0,122565963	0,624142135

BBNP	2	0,143488052	0,107093099	0,010368086	0,116906046	0,147153729	0,088687340	0,099237542	11,275566513	0,096983814	0,857556645
PNBS	2	0,771233915	0,126724410	0,011427605	0,066125324	0,012568431	0,172817372	1,286547412	5,786455323	0,090285784	0,228766085
BBCA	3	0,405903854	0,249194570	0,023521368	0,248123291	0,133237997	0,094797099	0,108997238	10,548845992	0,094601876	0,594096146
BBNI	3	0,308922107	0,060587962	0,006059673	0,079221909	0,092665056	0,076489869	0,092256027	13,073626732	0,100301293	0,691077893
BBRI	3	0,444967698	0,228717200	0,028376932	0,312828255	0,105158953	0,090710898	0,108257321	11,024033740	0,125322108	0,555032302
BDMN	3	0,143199001	0,090310022	0,014263497	0,144627296	0,140802013	0,098622443	0,140231810	10,139679885	0,162375341	0,884493077
BMRI	3	0,330043623	0,166081480	0,014822120	0,174111680	0,099506396	0,085129956	0,102799083	11,746746307	0,089687202	0,669956377
BNLI	3	0,067678703	0,159075286	0,010407237	0,122171480	0,109063350	0,085185491	0,104856870	11,739088350	0,067246821	0,932321297
BBKP	3	0,211684021	0,144162394	0,012706975	0,167052652	0,091102815	0,076065686	0,089012891	13,146532280	0,088143477	0,789542549
BNII	3	0,144030160	0,104618999	0,010461178	0,125277670	0,129519048	0,083503932	0,110270459	11,975484027	0,100239315	0,855969840
MAYA	3	0,251078507	0,151125575	0,015337345	0,142647103	0,090029459	0,107519498	0,121704973	9,300638691	0,101495494	0,748965670
MCOR	3	0,074148072	0,057415187	0,005412304	0,043336046	0,137725356	0,124891513	0,145720689	8,006949208	0,094952081	0,925851928
BSWD	3	0,480415015	0,266814341	0,022629199	0,179165172	0,128828699	0,126303560	0,152360097	7,917433181	0,084835834	0,519584985
BABP	3	9,353567341	0,001374113	0,000139422	0,001451915	0,107392152	0,096026182	0,108717667	10,413826555	0,101545240	0,905357307
BBNP	3	0,147528210	0,110868427	0,010402784	0,129192564	0,119085099	0,080521538	0,089267819	12,419037441	0,094152288	0,853991503
PNBS	3	0,736225726	0,072971587	0,007510039	0,046368513	0,022327051	0,161964192	1,459577730	6,174204241	0,102917300	0,264620476



LAMPIRAN UJI NORMALITAS DATA

→ Hasil Uji normalitas GPM

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14
Normal Parameters ^{a,b}							
Mean	,17179370	,21843493	,28524381	,26486408	,24515377	,26374192	,93567086
Std. Deviation	,181688060	,127411228	,153299724	,172461244	,174288650	,179125798	2,42983680
Most Extreme Differences							
Absolute	,190	,117	,132	,181	,195	,192	,461
Positive	,149	,117	,132	,181	,195	,192	,461
Negative	-,190	-,077	-,110	-,139	-,129	-,162	-,360
Test Statistic	,190	,117	,132	,181	,195	,192	,461
Asymp. Sig. (2-tailed)	,184 ^c	,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,155 ^c	,174 ^c	,000 ^c

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

→ Hasil Uji normalitas NPM

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14
Normal Mean	,05792192	,00118236	,13862287	,11726867	,12527132	,12574998	,13309408
Paramete Std. Deviation	,188668423	,39848375	,092766629	,08311183	,062949252	,087195285	,077360111
rs ^{a,b}		7		3			
Most Absolute	,328	,446	,161	,177	,147	,201	,121
Extreme Positive	,209	,299	,161	,115	,147	,114	,121
Differenc Negative	-,328	-,446	-,133	-,177	-,088	-,201	-,106
es							
Test Statistic	,328	,446	,161	,177	,147	,201	,121
Asymp. Sig. (2-tailed)	,000 ^c	,000 ^c	,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,130 ^c	,200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

➔ **Hasil Uji normalitas ROA**

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14
Normal							
Mean	,01174261	,01092296	,01524529	,01209909	,01334778	,01212579	,01300358
Paramete							
Std. Deviation	,010826496	,012227792	,01130292	,00911329	,007917619	,009377114	,007703771
rs ^{a,b}			1	9			
Most							
Absolute	,125	,194	,208	,119	,211	,192	,167
Extreme							
Positive	,108	,152	,208	,119	,211	,151	,167
Differenc							
Negative	-,125	-,194	-,129	-,114	-,125	-,192	-,109
es							
Test Statistic	,125	,194	,208	,119	,211	,192	,167
Asymp. Sig. (2-tailed)	,200 ^{c,d}	,162 ^c	,103 ^c	,200 ^{c,d}	,093 ^c	,175 ^c	,200 ^{c,d}

→ Hasil Uji normalitas ROE

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14
Normal							
Mean	,147426	,11584986	,13683846	,11055784	,12506392	,11450355	,13682682
Parameters ^{a,b}	36						
Std.	,101352	,097495645	,09892305	,08109004	,066941947	,098766170	,081584687
Deviation	107		0	2			
Most Extreme							
Absolute	,159	,185	,148	,139	,195	,192	,159
Differences							
Positive	,118	,185	,148	,139	,195	,079	,159

	Negative	-,159	-,132	-,130	-,139	-,130	-,192	-,143
Test Statistic		,159	,185	,148	,139	,195	,192	,159
Asymp. Sig. (2-tailed)		,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,154 ^c	,170 ^c	,200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

➔ Hasil Uji Normalitas QR

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3	
N	14	14	14	14	14	14	14	
Normal Parameters ^{a,b}	Mean	,34995731	,11463731	,12182362	,12143438	,11429956	,11612542	,10760310
	Std. Deviation	,876821149	,03699250	,060256804	,070831977	,051947556	,036576984	,030228981
	Most Extreme Differences	Absolute	,487	,219	,302	,220	,235	,171
Differences	Positive	,487	,219	,302	,220	,229	,171	,136
	Negative	-,380	-,171	-,185	-,162	-,235	-,164	-,209
Test Statistic	,487	,219	,302	,220	,235	,171	,209	
Asymp. Sig. (2-tailed)	,000 ^c	,067 ^c	,001 ^c	,064 ^c	,035 ^c	,200 ^{c,d}	,098 ^c	

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.
- d. This is a lower bound of the true significance.

➔ **Hasil Uji Normalitas PR**

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14
Normal Mean	,14615715	,12401307	,12721167	,10914631	,10973225	,10677138	,09912370
Paramete Std. Deviation	,227617637	,07119755	,101601751	,041401928	,038284943	,028569034	,024092068
rs ^{a,b}		5					
Most Absolute	,465	,257	,264	,232	,221	,305	,223
Extreme Positive	,465	,257	,264	,232	,221	,305	,223
Differenc Negative	-.294	-.179	-.203	-.162	-.154	-.145	-.169
es							
Test Statistic	,465	,257	,264	,232	,221	,305	,223
Asymp. Sig. (2-tailed)	,000 ^c	,013 ^c	,009 ^c	,039 ^c	,062 ^c	,001 ^c	,058 ^c

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.

➔ Hasil Uji Normalitas CAR

One-Sample Kolmogorov-Smirnov Test

		T_3	T_2	T_1	T0	T1	T2	T3
N		14	14	14	14	14	14	14
Normal Parameters ^{a,b}	Mean	32,6929903	,80099065	1,81489362	,29656494	,21944859	,20761685	,20957362
	Std. Deviation	121,898938	2,4798996	6,31016085	,665064252	,347156624	,311928153	,360335514
Most Extreme Differences	Absolute	,534	,506	,527	,499	,427	,462	,492
	Positive	,534	,506	,527	,499	,427	,462	,492
	Negative	-,394	-,383	-,388	-,370	-,331	-,352	-,369
Test Statistic		,534	,506	,527	,499	,427	,462	,492
Asymp. Sig. (2-tailed)		,000 ^c	,000 ^c	,000 ^c	,000 ^c	,000 ^c	,000 ^c	,000 ^c

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

One-Sample Kolmogorov-Smirnov Test

➔ Hasil Uji Normalitas LMR

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14
Normal Mean	10,8599206	9,9149306	9,35005221	10,0881904	9,92408842	9,90467974	10,5447233
Parameters ^{a,b}	7	3		0			3
Std. Deviation	4,29475574	3,8713056	3,32372503	2,75883694	2,77674206	2,21484163	2,07548591
Most Absolute	0	36	2	0	6	5	5
Extreme Positive	,254	,132	,148	,128	,148	,257	,146
Differences Negative	,254	,132	,108	,076	,148	,129	,105
Test Statistic	-206	-128	-148	-128	-123	-257	-146
Asymp. Sig. (2-tailed)	,254	,132	,148	,128	,148	,257	,146
	,015 ^c	,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,013 ^c	,200 ^{c,d}

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

➔ Hasil Uji Normalitas AUR

One-Sample Kolmogorov-Smirnov Test

	T_3	T_2	T_1	T0	T1	T2	T3
N	14	14	14	14	14	14	14

Normal	Mean	,12276262	,11763961	,12100181	,11113840	,10535040	,10147601	,10055826
Parameters ^{a,b}	Std.	,033054715	,03136915	,048700223	,031621204	,020879177	,022374790	,021802051
	Deviation		2					
Most Extreme	Absolute	,223	,210	,274	,223	,138	,182	,314
Differences	Positive	,133	,210	,274	,223	,138	,182	,314
	Negative	-,223	-,179	-,172	-,132	-,131	-,135	-,164
Test Statistic		,223	,210	,274	,223	,138	,182	,314
Asymp. Sig. (2-tailed)		,057 ^c	,094 ^c	,005 ^c	,058 ^c	,200 ^{c,d}	,200 ^{c,d}	,001 ^c

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

d. This is a lower bound of the true significance.

➔ **Hasil Uji Normalitas OR**

One-Sample Kolmogorov-Smirnov Test

		T_3	T_2	T_1	T0	T1	T2	T3
N		14	14	14	14	14	14	14
Normal	Mean	,83869666	,80083323	,75170542	,74808628	,75897070	,73962910	,72791867
	Parameters ^{a,b}							
	Std.	,202936681	,11744239	,168014924	,177895338	,176209911	,179373796	,192963356
	Deviation		0					
Most Extreme	Absolute	,226	,119	,178	,165	,207	,256	,172
Differences	Positive	,226	,095	,110	,157	,130	,166	,145

Negative	-,143	-,119	-,178	-,165	-,207	-,256	-,172
Test Statistic	,226	,119	,178	,165	,207	,256	,172
Asymp. Sig. (2-tailed)	,051 ^c	,200 ^{c,d}	,200 ^{c,d}	,200 ^{c,d}	,108 ^c	,014 ^c	,200 ^{c,d}

- a. Test distribution is Normal.
- b. Calculated from data.
- c. Lilliefors Significance Correction.
- d. This is a lower bound of the true significance.

LAMPIRAN UJI BEDA
→ Uji Beda GPM

NPar Tests

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	,17179370	,181688060	-,305104	,473745
T_2	14	,21843493	,127411228	,027133	,445931
T_1	14	,28524381	,153299724	,097504	,590915
T3	14	,93567086	2,429836801	,067679	9,353567
T2	14	,26374192	,179125798	,086721	,771234
T1	14	,24515377	,174288650	,048206	,705943

Wilcoxon Signed Ranks Test

Ranks			
	N	Mean Rank	Sum of Ranks

T3 - T_3	Negative Ranks	3 ^a	8,00	24,00
	Positive Ranks	11 ^b	7,36	81,00
	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	5 ^d	6,80	34,00
	Positive Ranks	9 ^e	7,89	71,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	7 ^g	6,57	46,00
	Positive Ranks	7 ^h	8,43	59,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	5 ^j	6,40	32,00
	Positive Ranks	9 ^k	8,11	73,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	6 ^m	8,33	50,00
	Positive Ranks	8 ⁿ	6,88	55,00
	Ties	0 ^o		
	Total	14		
T1 - T_2	Negative Ranks	7 ^p	8,00	56,00
	Positive Ranks	7 ^q	7,00	49,00
	Ties	0 ^r		

	Total	14		
T3 - T_1	Negative Ranks	5 ^s	6,80	34,00
	Positive Ranks	9 ^t	7,89	71,00
	Ties	0 ^u		
	Total	14		
T2 - T_1	Negative Ranks	7 ^v	8,29	58,00
	Positive Ranks	7 ^w	6,71	47,00
	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	6 ^y	10,33	62,00
	Positive Ranks	8 ^z	5,38	43,00
	Ties	0 ^{aa}		
	Total	14		

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-1,789 ^b	-1,161 ^b	-,408 ^b	-1,287 ^b	-,157 ^b	-,220 ^c	-1,161 ^b	-,345 ^c	-,596 ^c
Asymp. Sig. (2-tailed)	,074	,245	,683	,198	,875	,826	,245	,730	,551

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.

→ Uji Beda NPM

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	,05792192	,188668423	-,569292	,214001
T_2	14	,00118236	,398483757	-1,365505	,211843
T_1	14	,13862287	,092766629	,001829	,311484
T3	14	,13309408	,077360111	,001374	,266814
T2	14	,12574998	,087195285	-,106678	,251945
T1	14	,12527132	,062949252	,031084	,250751

Wilcoxon Signed Ranks Test

Ranks

	N	Mean Rank	Sum of Ranks
T3 - T_3	Negative Ranks	3 ^a	6,67
	Positive Ranks	11 ^b	7,73

	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	5 ^d	6,20	31,00
	Positive Ranks	9 ^e	8,22	74,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	6 ^g	5,50	33,00
	Positive Ranks	8 ^h	9,00	72,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	4 ^j	4,50	18,00
	Positive Ranks	10 ^k	8,70	87,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	5 ^m	5,40	27,00
	Positive Ranks	9 ⁿ	8,67	78,00
	Ties	0 ^o		
	Total	14		
T1 - T_2	Negative Ranks	3 ^p	8,67	26,00
	Positive Ranks	11 ^q	7,18	79,00
	Ties	0 ^r		
	Total	14		
T3 - T_1	Negative Ranks	6 ^s	8,17	49,00

	Positive Ranks	8 ^t	7,00	56,00
	Ties	0 ^u		
	Total	14		
T2 - T_1	Negative Ranks	6 ^v	9,00	54,00
	Positive Ranks	8 ^w	6,38	51,00
	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	6 ^y	8,50	51,00
	Positive Ranks	8 ^z	6,75	54,00
	Ties	0 ^{aa}		
	Total	14		

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-2,040 ^b	-1,350 ^b	-1,224 ^b	-2,166 ^b	-1,601 ^b	-1,664 ^b	-,220 ^b	-,094 ^c	-,094 ^b
Asymp. Sig. (2-tailed)	,041	,177	,221	,030	,109	,096	,826	,925	,925

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.

➔ Uji Beda ROA

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	T_3	,01174261	14	,010826496	,002893503
	T3	,01300358	14	,007703771	,002058919
Pair 2	T_3	,01174261	14	,010826496	,002893503
	T2	,01212579	14	,009377114	,002506139
Pair 3	T_3	,01174261	14	,010826496	,002893503
	T1	,01334778	14	,007917619	,002116073
Pair 4	T_2	,01092296	14	,012227792	,003268015
	T3	,01300358	14	,007703771	,002058919
Pair 5	T_2	,01092296	14	,012227792	,003268015
	T2	,01212579	14	,009377114	,002506139
Pair 6	T_2	,01092296	14	,012227792	,003268015
	T1	,01334778	14	,007917619	,002116073
Pair 7	T_1	,01524529	14	,011302921	,003020833
	T3	,01300358	14	,007703771	,002058919
Pair 8	T_1	,01524529	14	,011302921	,003020833
	T2	,01212579	14	,009377114	,002506139
Pair 9	T_1	,01524529	14	,011302921	,003020833
	T1	,01334778	14	,007917619	,002116073

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	T_3 & T3	14	,615	,019
Pair 2	T_3 & T2	14	,447	,109
Pair 3	T_3 & T1	14	,437	,118
Pair 4	T_2 & T3	14	,690	,006
Pair 5	T_2 & T2	14	,577	,031
Pair 6	T_2 & T1	14	,626	,017
Pair 7	T_1 & T3	14	,573	,032
Pair 8	T_1 & T2	14	,699	,005
Pair 9	T_1 & T1	14	,617	,019

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	T_3 - T3	-,001260968	,008597216	,002297703	-,006224853	,003702916	-,549	13	,592
Pair 2	T_3 - T2	-,000383181	,010699098	,002859454	-,006560656	,005794294	-,134	13	,895
Pair 3	T_3 - T1	-,001605167	,010245693	,002738277	-,007520855	,004310520	-,586	13	,568
Pair 4	T_2 - T3	-,002080616	,008883070	,002374100	-,007209548	,003048316	-,876	13	,397
Pair 5	T_2 - T2	-,001202828	,010249056	,002739175	-,007120457	,004714801	-,439	13	,668
Pair 6	T_2 - T1	-,002424815	,009537071	,002548889	-,007931355	,003081726	-,951	13	,359
Pair 7	T_1 - T3	,002241715	,009348297	,002498438	-,003155831	,007639261	,897	13	,386

Pair 8	T_1 - T2	,003119503	,008217508	,002196221	-,001625145	,007864151	1,420	13	,179
Pair 9	T_1 - T1	,001897516	,008946641	,002391090	-,003268121	,007063153	,794	13	,442

→ Uji Beda ROE

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	T_3	,14742636	14	,101352107	,027087490
	T3	,13682682	14	,081584687	,021804425
Pair 2	T_3	,14742636	14	,101352107	,027087490
	T2	,11450355	14	,098766170	,026396369
Pair 3	T_3	,14742636	14	,101352107	,027087490
	T1	,12506392	14	,066941947	,017890988
Pair 4	T_2	,11584986	14	,097495645	,026056807
	T3	,13682682	14	,081584687	,021804425
Pair 5	T_2	,11584986	14	,097495645	,026056807
	T2	,11450355	14	,098766170	,026396369
Pair 6	T_2	,11584986	14	,097495645	,026056807
	T1	,12506392	14	,066941947	,017890988
Pair 7	T_1	,13683846	14	,098923050	,026438297
	T3	,13682682	14	,081584687	,021804425
Pair 8	T_1	,13683846	14	,098923050	,026438297

	T2	,11450355	14	,098766170	,026396369
Pair 9	T_1	,13683846	14	,098923050	,026438297
	T1	,12506392	14	,066941947	,017890988

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 T_3 & T3	14	,646	,013
Pair 2 T_3 & T2	14	,566	,035
Pair 3 T_3 & T1	14	,549	,042
Pair 4 T_2 & T3	14	,776	,001
Pair 5 T_2 & T2	14	,701	,005
Pair 6 T_2 & T1	14	,777	,001
Pair 7 T_1 & T3	14	,629	,016
Pair 8 T_1 & T2	14	,674	,008
Pair 9 T_1 & T1	14	,702	,005

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 T_3 - T3	,010599531	,079041437	,021124713	-,035037635	,056236698	,502	13	,624
Pair 2 T_3 - T2	,032922808	,093278912	,024929838	-,020934833	,086780448	1,321	13	,209

Pair 3	T_3 - T1	,022362432	,085454983	,022838805	-,026977806	,071702670	,979	13	,345
Pair 4	T_2 - T3	-,020976965	,061738101	,016500202	-,056623484	,014669553	-1,271	13	,226
Pair 5	T_2 - T2	,001346311	,075848859	,020271460	-,042447517	,045140138	,066	13	,948
Pair 6	T_2 - T1	-,009214065	,062037386	,016580189	-,045033385	,026605255	-,556	13	,588
Pair 7	T_1 - T3	,000011639	,079346702	,021206298	-,045801783	,045825061	,001	13	1,000
Pair 8	T_1 - T2	,022334915	,079803759	,021328452	-,023742404	,068412233	1,047	13	,314
Pair 9	T_1 - T1	,011774539	,070466198	,018832883	-,028911432	,052460510	,625	13	,543

→ Uji Beda QR

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	,34995731	,876821149	,082628	3,393939
T_2	14	,11463731	,036992505	,079442	,219467
T_1	14	,12182362	,060256804	,067695	,315817
T3	14	,10760310	,030228981	,022327	,140802
T2	14	,11612542	,036576984	,012568	,150882
T1	14	,11429956	,051947556	,014195	,239028

Wilcoxon Signed Ranks Test

Ranks

	N	Mean Rank	Sum of Ranks

T3 - T_3	Negative Ranks	9 ^a	6,67	60,00
	Positive Ranks	5 ^b	9,00	45,00
	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	6 ^d	6,83	41,00
	Positive Ranks	8 ^e	8,00	64,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	9 ^g	7,22	65,00
	Positive Ranks	5 ^h	8,00	40,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	7 ^j	8,00	56,00
	Positive Ranks	7 ^k	7,00	49,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	5 ^m	8,60	43,00
	Positive Ranks	9 ⁿ	6,89	62,00
	Ties	0 ^o		
	Total	14		
T1 - T_2	Negative Ranks	8 ^p	7,38	59,00
	Positive Ranks	6 ^q	7,67	46,00
	Ties	0 ^r		

	Total	14		
T3 - T_1	Negative Ranks	8 ^s	6,75	54,00
	Positive Ranks	6 ^t	8,50	51,00
	Ties	0 ^u		
	Total	14		
T2 - T_1	Negative Ranks	5 ^v	7,00	35,00
	Positive Ranks	9 ^w	7,78	70,00
	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	7 ^y	7,00	49,00
	Positive Ranks	7 ^z	8,00	56,00
	Ties	0 ^{aa}		
	Total	14		

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-,471 ^b	-,722 ^c	-,785 ^b	-,220 ^b	-,596 ^c	-,408 ^b	-,094 ^b	-1,099 ^c	-,220 ^c
Asymp. Sig. (2-tailed)	,638	,470	,433	,826	,551	,683	,925	,272	,826

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.

→ Uji Beda PR

NPar Tests

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	,14615715	,227617637	,022823	,931351
T_2	14	,12401307	,071197555	,057040	,312568
T_1	14	,12721167	,101601751	,013968	,445097
T3	14	,09912370	,024092068	,076066	,161964
T2	14	,10677138	,028569034	,076492	,172817
T1	14	,10973225	,038284943	,060897	,220647

Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
T3 - T_3	Negative Ranks	7 ^a	6,29	44,00
	Positive Ranks	7 ^b	8,71	61,00
	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	5 ^d	6,20	31,00
	Positive Ranks	9 ^e	8,22	74,00
	Ties	0 ^f		

	Total	14		
T1 - T_3	Negative Ranks	4 ^g	8,00	32,00
	Positive Ranks	10 ^h	7,30	73,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	7 ^j	10,00	70,00
	Positive Ranks	7 ^k	5,00	35,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	7 ^m	8,86	62,00
	Positive Ranks	7 ⁿ	6,14	43,00
	Ties	0 ^o		
	Total	14		
T1 - T_2	Negative Ranks	5 ^p	10,00	50,00
	Positive Ranks	9 ^q	6,11	55,00
	Ties	0 ^r		
	Total	14		
T3 - T_1	Negative Ranks	9 ^s	8,11	73,00
	Positive Ranks	5 ^t	6,40	32,00
	Ties	0 ^u		
	Total	14		
T2 - T_1	Negative Ranks	8 ^v	7,75	62,00
	Positive Ranks	6 ^w	7,17	43,00

	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	7 ^y	7,57	53,00
	Positive Ranks	7 ^z	7,43	52,00
	Ties	0 ^{aa}		
	Total	14		

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-,534 ^b	-1,350 ^b	-1,287 ^b	-1,099 ^c	-,596 ^c	-,157 ^b	-1,287 ^c	-,596 ^c	-,031 ^c
Asymp. Sig. (2-tailed)	,594	,177	,198	,272	,551	,875	,198	,551	,975

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

c. Based on positive ranks.

➔ Uji Beda CAR

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	32,69299030	121,898938658	,064653	456,218182

T_2	14	,80099065	2,479899623	,065162	9,413630
T_1	14	1,81489362	6,310160855	,011405	23,737819
T3	14	,20957362	,360335514	,089013	1,459578
T2	14	,20761685	,311928153	,089191	1,286547
T1	14	,21944859	,347156624	,067242	1,418111

Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
T3 - T_3	Negative Ranks	7 ^a	8,00	56,00
	Positive Ranks	7 ^b	7,00	49,00
	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	6 ^d	7,17	43,00
	Positive Ranks	8 ^e	7,75	62,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	6 ^g	7,67	46,00
	Positive Ranks	8 ^h	7,38	59,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	9 ^j	8,22	74,00

	Positive Ranks	5 ^k	6,20	31,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	5 ^m	11,20	56,00
	Positive Ranks	9 ⁿ	5,44	49,00
	Ties	0 ^o		
	Total	14		
T1 - T_2	Negative Ranks	7 ^p	9,00	63,00
	Positive Ranks	7 ^q	6,00	42,00
	Ties	0 ^r		
	Total	14		
T3 - T_1	Negative Ranks	9 ^s	8,33	75,00
	Positive Ranks	5 ^t	6,00	30,00
	Ties	0 ^u		
	Total	14		
T2 - T_1	Negative Ranks	8 ^v	8,13	65,00
	Positive Ranks	6 ^w	6,67	40,00
	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	8 ^y	8,63	69,00
	Positive Ranks	6 ^z	6,00	36,00
	Ties	0 ^{aa}		

Total	14		
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Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-,220 ^b	-,596 ^c	-,408 ^c	-1,350 ^b	-,220 ^b	-,659 ^b	-1,412 ^b	-,785 ^b	-1,036 ^b
Asymp. Sig. (2-tailed)	,826	,551	,683	,177	,826	,510	,158	,433	,300

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.

➔ **Uji Beda LMR**

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	32,69299030	121,898938658	,064653	456,218182
T_2	14	,80099065	2,479899623	,065162	9,413630
T_1	14	1,81489362	6,310160855	,011405	23,737819
T3	14	,20957362	,360335514	,089013	1,459578
T2	14	,20761685	,311928153	,089191	1,286547
T1	14	,21944859	,347156624	,067242	1,418111

Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
T3 - T_3	Negative Ranks	7 ^a	8,00	56,00
	Positive Ranks	7 ^b	7,00	49,00
	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	6 ^d	7,17	43,00
	Positive Ranks	8 ^e	7,75	62,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	6 ^g	7,67	46,00
	Positive Ranks	8 ^h	7,38	59,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	9 ^j	8,22	74,00
	Positive Ranks	5 ^k	6,20	31,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	5 ^m	11,20	56,00
	Positive Ranks	9 ⁿ	5,44	49,00
	Ties	0 ^o		

	Total		14		
T1 - T_2	Negative Ranks	7 ^p	9,00	63,00	
	Positive Ranks	7 ^q	6,00	42,00	
	Ties	0 ^r			
	Total	14			
T3 - T_1	Negative Ranks	9 ^s	8,33	75,00	
	Positive Ranks	5 ^t	6,00	30,00	
	Ties	0 ^u			
	Total	14			
T2 - T_1	Negative Ranks	8 ^v	8,13	65,00	
	Positive Ranks	6 ^w	6,67	40,00	
	Ties	0 ^x			
	Total	14			
T1 - T_1	Negative Ranks	8 ^y	8,63	69,00	
	Positive Ranks	6 ^z	6,00	36,00	
	Ties	0 ^{aa}			
	Total	14			

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-,220 ^b	-,596 ^c	-,408 ^c	-1,350 ^b	-,220 ^b	-,659 ^b	-1,412 ^b	-,785 ^b	-1,036 ^b
Asymp. Sig. (2-tailed)	,826	,551	,683	,177	,826	,510	,158	,433	,300

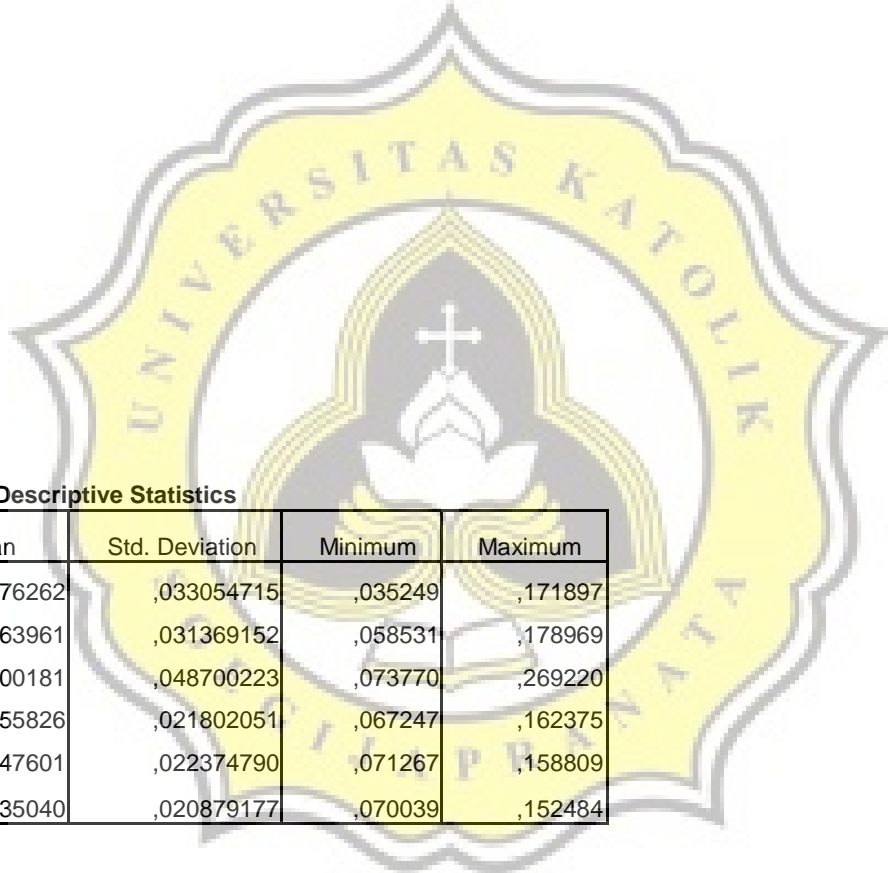
- a. Wilcoxon Signed Ranks Test
- b. Based on positive ranks.
- c. Based on negative ranks.

→ Uji Beda AUR

NPar Tests

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	,12276262	,033054715	,035249	,171897
T_2	14	,11763961	,031369152	,058531	,178969
T_1	14	,12100181	,048700223	,073770	,269220
T3	14	,10055826	,021802051	,067247	,162375
T2	14	,10147601	,022374790	,071267	,158809
T1	14	,10535040	,020879177	,070039	,152484



Wilcoxon Signed Ranks Test

Ranks

		N	Mean Rank	Sum of Ranks
T3 - T_3	Negative Ranks	12 ^a	7,58	91,00
	Positive Ranks	2 ^b	7,00	14,00
	Ties	0 ^c		
	Total	14		
T2 - T_3	Negative Ranks	13 ^d	7,15	93,00
	Positive Ranks	1 ^e	12,00	12,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	12 ^g	6,92	83,00
	Positive Ranks	2 ^h	11,00	22,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	12 ^j	7,42	89,00
	Positive Ranks	2 ^k	8,00	16,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	12 ^m	7,67	92,00
	Positive Ranks	2 ⁿ	6,50	13,00
	Ties	0 ^o		

	Total	14		
T1 - T_2	Negative Ranks	9 ^p	8,44	76,00
	Positive Ranks	5 ^q	5,80	29,00
	Ties	0 ^r		
	Total	14		
T3 - T_1	Negative Ranks	8 ^s	9,88	79,00
	Positive Ranks	6 ^t	4,33	26,00
	Ties	0 ^u		
	Total	14		
T2 - T_1	Negative Ranks	11 ^v	7,73	85,00
	Positive Ranks	3 ^w	6,67	20,00
	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	10 ^y	7,30	73,00
	Positive Ranks	4 ^z	8,00	32,00
	Ties	0 ^{aa}		
	Total	14		

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-2,417 ^b	-2,542 ^b	-1,915 ^b	-2,291 ^b	-2,480 ^b	-1,475 ^b	-1,664 ^b	-2,040 ^b	-1,287 ^b
Asymp. Sig. (2-tailed)	,016	,011	,056	,022	,013	,140	,096	,041	,198

- a. Wilcoxon Signed Ranks Test
- b. Based on positive ranks.

→ Uji Beda OR

NPar Tests

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
T_3	14	,83869666	,202936681	,527192	1,399159
T_2	14	,80083323	,117442390	,555513	,991471
T_1	14	,75170542	,168014924	,409218	,997308
T3	14	,72791867	,192963356	,264620	,932321
T2	14	,73962910	,179373796	,228766	,913279
T1	14	,75897070	,176209911	,294057	,957111

Wilcoxon Signed Ranks Test

Ranks				
		N	Mean Rank	Sum of Ranks
T3 - T_3	Negative Ranks	9 ^a	7,67	69,00
	Positive Ranks	5 ^b	7,20	36,00
	Ties	0 ^c		
	Total	14		

T2 - T_3	Negative Ranks	9 ^d	7,89	71,00
	Positive Ranks	5 ^e	6,80	34,00
	Ties	0 ^f		
	Total	14		
T1 - T_3	Negative Ranks	7 ^g	8,57	60,00
	Positive Ranks	7 ^h	6,43	45,00
	Ties	0 ⁱ		
	Total	14		
T3 - T_2	Negative Ranks	8 ^j	8,63	69,00
	Positive Ranks	6 ^k	6,00	36,00
	Ties	0 ^l		
	Total	14		
T2 - T_2	Negative Ranks	9 ^m	7,00	63,00
	Positive Ranks	5 ⁿ	8,40	42,00
	Ties	0 ^o		
	Total	14		
T1 - T_2	Negative Ranks	8 ^p	7,63	61,00
	Positive Ranks	6 ^q	7,33	44,00
	Ties	0 ^r		
	Total	14		
T3 - T_1	Negative Ranks	8 ^s	7,75	62,00
	Positive Ranks	6 ^t	7,17	43,00
	Ties	0 ^u		

	Total	14		
T2 - T_1	Negative Ranks	7 ^v	7,86	55,00
	Positive Ranks	7 ^w	7,14	50,00
	Ties	0 ^x		
	Total	14		
T1 - T_1	Negative Ranks	8 ^y	6,25	50,00
	Positive Ranks	6 ^z	9,17	55,00
	Ties	0 ^{aa}		
	Total	14		

Test Statistics^a

	T3 - T_3	T2 - T_3	T1 - T_3	T3 - T_2	T2 - T_2	T1 - T_2	T3 - T_1	T2 - T_1	T1 - T_1
Z	-1,036 ^b	-1,161 ^b	-,471 ^b	-1,036 ^b	-,659 ^b	-,534 ^b	-,596 ^b	-,157 ^b	-,157 ^c
Asymp. Sig. (2-tailed)	,300	,245	,638	,300	,510	,594	,551	,875	,875

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

c. Based on negative ranks.

