nanoseconds

DATASET 0

TTDB (a)

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	15577736	14739207	15635712	17199346	16499587	19629693	11068582	9663514	12916651	15089228	11618566	11580497	13414284	13481410	12030117	13778189	13230191	13199296	12071740	9328525	13587603.55	13322237.5	9328525	19629693	17320863.35	2545241.711	18.73208695
query1	10031654	13397041	10254288	9287380	11597396	8315509	12250228	12158196	7348808	12226118	10352794	9538217	11643862	7415232	10440246	6941163	9877828	6483520	10678770	9882190	10006022	10142971	6483520	13397041	12307568.65	1937633.867	19.36467726
query2	8640813	12333430	10478380	9331824	13115974	11913738	9688836	12815091	12333209	14602400	8526295	7041079	6701474	7432885	8345152	8584799	9470304	10003951	9802535		10028707.9	9579570	6701474	14602400	13190295.3	2173698.674	21.67476434
query3	26208067	33180235	40523606	36017926	45363563	54409573	33919693	34153669	34309537	34632159	38867832	43660574	38375141	36814684	38964703	50463901	34100353	33961786	43312992	34640732	38294036.3	36416305	26208067	54409573	50661184.6	6538937.865	17.07560366
query4	17179899	13622501	12258372	10819371	9884720	17662045	10434931	9905229	9681207	11222783	9292643	10558438	10432167	10967279	8908224	9540851	9554013	8897664	8873435	8766019	10923089.55	10168698	8766019	17662045	17204006.3	2528382.986	23.14714142
query5	18489559	18171771	16537502	18693167	19548835	18054252	20509501	18791651	27260884	26373722	29852489	28968233	30307465	27084587	24742700	27795715	22130594	27821862	24136514	27656771	23646388.7	24439607	16537502	30307465	29875237.8	4651607.937	19.6715363
query6	17183902	16622607	17375764	15386933	14712689	18628070	15592917	13130944	19865934	14331576	14175341	14154898	10729089	14925017	16914342	15516724	14638420	14504758	14858690	13868282	15355844.85	14891853.5	10729089	19865934	18689963.2	2014777.482	13.12059025

TTDB SHALLOW (b)

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	4748026	5375000	5736621	7427152	7679105	4483147	5176488	7191700	6088643	6113815	10006309	9460723	6446591	4008140	6611725	4607919	4604064	4318093	5472712	5547599	6055178.6	5642110	4008140	10006309	9488002.3	1638500.288	27.05948736
query1	5151684	5479857	6197202	6657047	5016494	5073145	4731125	5900759	5429962	6060657	5606741	4993384	5356432	5093821	4450247	4874372	4896354	4742829			5242686.45	5083483	4450247	6657047	6220194.25	594943.9427	11.34807409
query2	8122277	7157245	6640921	7642258	7582046	7525353	6017291	5557375	6075210	6009947	5878067	5912933	5817801	5717761	5677751	6599639	6582908	6101365	5950600	6492670	6453070.9	6088287.5	5557375	8122277	7666258.95	763340.3143	11.82910162
query3	5718991	5374141	5879446	5206972	5433031	6343014	5923923	5832324	5970789	6071052	4830411	5059503	5422628	5064387	5247135	4829750	4725618	5044315	5262793	5553583	5439690.3	5398384.5	4725618	6343014	6084650.1	458355.7348	8.426136591
query4	9349016	9061366	9393871	9059322	8436006	8167907	8302413	8910069	8372252	7659189	8423164	7363001	8670409	7797109	7808276	6887160	7496644	7407829	8159708	8440799	8258275.5	8337332.5	6887160	9393871	9351258.75	697530.125	8.44643806
query5	16315698	18198048	14369716	16388250	17833399	17512974	17080099	15330843	16633613	21201828	17561708	18817962	21565549	15996085	17000444	19549381	18620109	18944994	19146463	17363100	17771513.15	17537341	14369716	21565549	21220014.05	1805695.562	10.16061799
query6	13532777	8850309	10747960	9996184	9500915	11599167	8692629	8808622	9189335	8223728	8434700	9164913	8779612	8500489	8070443	8597879	8407265	8477360	9154807	9069528	9329931.1	8860376	8223728	13532777	11695847.5	1291508.292	13.84263483

Neo4j (c)

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	6496296	5821315	5541679	5031224	4590113	6699848	4848013	4458124	4651019	5371797	5194049	4368234	5077370	6816584	4932028	6404441	6223147	5712349	5898546	5877132	5500665.4	5456738	4368234	6816584	6705684.8	765330.0608	13.91340875
query1	37780838	27101683	17978471	17630028	24555606	36880305	16123080	15974877	16280482	16650992	16841443	16478622	16739371	15449736	17304292	15090488	14939040	14371748	14422614	14810308	19170201.2	16564807	14371748	37780838	36925331.65	6977102.309	36.3955612
query2	100274792	49603079	49827383	48628397	48222377	62726607	47916983	48168211	47101383	46766081	46553194	46914146	45869406	41041934	43989268	45283315	45058041	45455277	48117986	41000249	49925905.45	47007764.5	41000249	100274792	64604016.25	12623906.6	25.28528323
query3	29677855	12791832	12805941	13004193	13105737	15634860	16476588	17334899	17499206	12036183	11144561	11909165	12642357	11496601	10731352	11631210	16575549	13902280	12148635	13101233	14282511.85	12905087	10731352	29677855	18108138.45	4184642.196	29.29906336
query4	219998331	111617575	112523164	112818588	100043244	103377606	110955478	101961012	107960102	115923776	112295797	111495275	139136039	115258450	113666972	112344172	115100467	112607720	114975662		117623947.2	112433668	100043244	219998331	143179153.6	25283869.56	21.49551189
query5	828686839	419781511	438506243	491244453	427919795	439463916	421358319	407763354	411896183	410423703	420116987	413498391	412811124	428440226	421178446	432136482	416342157	416094169	407458678	415419403	444027019	419949249	407458678	828686839	508116572.3	92386086.99	20.80641111
query6	230775170	107303552	117855312	112399820	106956608	114367361	109927190	106130650	105813395	106081410	106898221	105519028	104947821	106713100	111396407	106663762	105476494	111430422	112767049	110282538	114985265.5	107130080	104947821	230775170	123501304.9	27481926.89	23.90038999

DATASET 1

TTDB

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	260062855	27901759	21684094	21903804	29880007	28626702	21444950	23671270	31382312	25299415	92340862	69264176	33455706	31725496	36975116	33611814	48361443	35530670	33638550	50896848	36182892.45	31553904	21444950	92340862	70418010.3	17549201.57	48.50137837
query1	480059614	34958848	45683914	26144242	39685075	25387155	52563515	67240625	32270385	80250241	41703902	28930161	28050604	47113221	73263390	29478171	78073989	49560941	55146989	76435506	48000024.4	46398567.5	25387155	80250241	78182801.6	18441969.75	38.42075078
query2	66906801	47593801	29996382	134206103	37922634	58094762	33576553	14712093	12237433	10787224	22563339	23442106	10103109	15268309	11505107	9971047	12471632	12725944	14179156	14946288	29660491.15	19850376	9971047	134206103	100.3980512		
query3	23934715320	26665614498	37494937904	57139914332	59495344985	68123215903	53747849698	1.02E+11	62698358207	1.12E+11	1.02E+11	1.15E+11	1.07E+11	1.15E+11	1.14E+11	86309624240	1.56E+11	95488752506	1.31E+11	1.64E+11	89377666380	98504376253	23934715320	1.64E+11	163648000000	156222800000	39746475739	44.470254
query4	35485515514	56421786977	56821028806	34869527897	24904624411	20459824302	17407923167	20476307579	20038732926	21955841284	35691953672	63140965507	46126377641	43922745862	40360691879	31454653417	47386896358	21484953057	12703195948	16305289815	33370941801	33162090657	12703195948	63140965507	57137025641	15095852296	45.23651386
query5	1.46E+11	1.11E+11	1.85E+11	1.78E+11	1.70E+11	1.75E+11	2.01E+11	1.24E+11	2.66E+11	1.75E+11	1.03E+11	79336564527	1.40E+11	2.18E+11	1.92E+11	93675997986	82430160321	1.84E+11	1.85E+11	1.72E+11	159100686142	173208500000	79336564527	266133000000	220344900000	48446233984	30.46261783
query6	18625415803	17330035719	16745388332	18507340430	17618335314	21623322661	19727986249	63639838608	48675942672	73233256210	51109877646	44348401522	41447808761	70375844781	42051196576	55989044690	62661800684	50082397768	27200119707	20966926411	39098014052	41749502669	16745388832	73233256210	70518715352	19753332456	50.52259798

TTDB SHALLOW

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	114542275	93076372	29447069	30661285	27756843	24277243	35229596	34288825	135951514	355886263	29394652	29159573	28562272	28423248	26262621	26970351	24230579	25652662	26850925	26490870	57653801.9	28860922.5	24230579	355886263	146911201.5	77268548.52	134.02016013
query1	27845266	24392910	23680349	26240856	26722316	34778239	31886645	32127521	27882745	23640404	24733787	21629270	24237484	104754182	84782311	14084252	23793927	24560930	90170299		28768640.45	24647358.5	8478231	104754182	38277036.15	18785324.75	65.29792321
query2	7621754	7402128	8164492	7805518	8210864	9618470	8464997	8630610	10585028	13074998	8104083	7942149	8432104	8899824	8167807	7839503	9230464	9214393	7611662	10520957	8776704.25	8321484	7402128	13074998	10709526.5	1352824.983	15.4138153
query3	828333208	934210898	834002539	797114514	854399305	975819016	881575456	806813810	805949319	863745214	748602387	833593194		781204741	821750039	764348145	920595339	901702994	1088698564	888903940	873388901.8	859072259.5	748602387	1088698564	931462616	93146263.76	10.66492413
query4	16584965421	15285135316	13795054643	14776350115	15572071694	14730991818	13625141939	12509145509	15037771570	14276469436	38184723341	63190134730	51834018248	44118816535	24335833296	19580110043	15529488331	16221980966	14772202389	22642725879	22830147402	15550780013	12509145509	63190134730	52401824072	14545270843	63.71080566
query5	1.13E+11	1.14E+11	1.24E+11	1.29E+11	1.33E+11	1.36E+11	1.08E+11	1.19E+11	1.51E+11	1.51E+11	1.60E+11	1.23E+11	1.49E+11								136071050000	127579500000	105089000000	188507000000	174466000000	23822629833	17.50749321
query6	35353041792	26502686354	25039750068	26889212027	23530492846	20794442068	55684070359	53796481012	58220405072	57892288675	59017119219	44624832136	50714024982	32442332299	26852745949	28230896974	25320718981	23948388178	25180129144	25361218434	36269763828	27560054501	20794442068	59017119219	58260240779	14185049950	39.10984923

Neo4j

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	887316724	433043081	423554856	424903509	430678627	436562106	455884519	435176095	419720207	433364393	480609666	449882119	450540636	444717102	443532040	451991553	448440623	449079463	440799191	468208521	465400251.6	444124571	419720207	887316724	500945018.9	100407487.7	21.57443777
query1	908086172	472358713	466698093	450025981	474515156	455100666	453296316	458605319	443850871	449133857	467635311	458111274	437905584	432482037	426430455	434222968	442057843	480285146	450794820	483052674	477232462.8	454198491	426430455	908086172	504304348.9	102861373.9	21.51818697
query2	870873704	446232192	471315215	440411106	436795195	463795304	450939542	453646322	437952764	448112421	442995848	433198526	436880580	440455601	432966007	420384319	421731630	422108342	430501911	437890497	461959351.3	439155883	420384319	870873704	491293139.75	97123865.03	21.02403142
query3	99277608623	57955575139	44029908555	55920985178	60624453512	47610421998	53146417366	57985301485	56626863240	72953552456	54637238978	65455921206	63567640858	65978872616	63601282068	61387622508	87961234096	57460284825	36656645863	65502306847	61597452371	59304877499	36656645863	99277608623	88527052822	13941971944	22.634007
query4	4.69E+11	2.43E+11	2.27E+11	2.15E+11	2.41E+11	2.13E+11	2.55E+11	1.78E+11	2.48E+11	2.15E+11	2.53E+11	2.20E+11	2.41E+11	2.43E+11	1.84E+11	2.22E+11	1.79E+11	1.80E+11	2.05E+11	1.82E+11	230657350000	221286500000	177841000000	468727000000	266039750000	61948017560	26.85716174
query5	1.65E+12	7.59E+11	7.55E+11	7.31E+11	7.50E+11	8.50E+11	9.36E+11	8.86E+11	9.04E+11	9.49E+11	9.00E+11	9.37E+11	9.46E+11	9.40E+11	9.35E+11	8.09E+11	8.09E+11	7.57E+11	8.51E+11	8.25E+11	893783200000	868348500000	730878000000	1646580000000	983738400000	192801823362	21.57143067
query6	4.39E+11	1.86E+11	2.16E+11	2.13E+11	2.26E+11	2.21E+11	1.95E+11	2.25E+11	2.26E+11	2.12E+11	2.22E+11	2.02E+11	2.04E+11	2.12E+11	2.33E+11	2.36E+11	2.61E+11	2.59E+11	2.52E+11	2.56E+11	234814600000	223248500000	186357000000	438887000000	269587500000	52354724220	22.29619633

Dataset 2

TTDB

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	7648842	7038366	6801399	6909226	6693154	22808228	7257913	6522953	41042529	7229250	6622854	6206482	6287964	5667308	6835548	6369007	5919298	6117547	6351009	6945410	9163714.35	6747276.5	5667308	41042529	23719943.05	8341155.385	91.02373848
query1	6647997	5967867	5579838	4871860	5974671	5679501	5895271	6030481	6275273	6818906	6541823	6785941	7384764	7048891	5999880	5273136	6090887	6092669	4735815	5188781	6044212.6	6015180.5	4735815	7384764	7065684.65	704241.0082	11.651493
query2	5723525	6057333	6530404	6925557	5557065	8404891	6648011	7750787	8833182	6633501	6415419	6174082	5460371	5915243	4632955	5650576	5407672	6276225	6490328	5488419	6348777.3	6225153.5	4632955	8833182	8426305.55	1028523.88	16.20034586
query3																					-						
query4	2205638020	2417080049	1604331022	3297449182	1861810709	1552524301	2088546640	3043006420	1205510992	1081769640	1523126856	1060765198	6564533930	5673617544	4913725042	2097344259	4866943336	9058277694	7479830507	2939117373	3326747436	2311359035	1060765198	9058277694	7558752866	2322983525	69.82748872
query5	42129720914	52404495676	43537335653	45393943825	30399627605	23857530995	23961568555	44117681127	51790240450	20548565749	15327930995	18892965460	26915015642	20952816737	18525134232	17304843421	30278570463	66745412550	75648638739	55401781695	36209693274	30339099034	15327930995	75648638739	67190576109	17681125276	48.82981234
query6	9648585105	2788162837	2806697730	2657669984	3936160284	5148523885	3395101914	3349705857	3114908791	4557692319	3595221551	3199968812	3426449932	2940360562	2637753703	2360064709	3059057319	3119372516	2391402167	2776814373	3545494718	3117140654	2360064709	9648585105	5373526946	1593088241	44.93274895

TTDB SHALLOW

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	5138430	5924833	7997780	6524090	4773127	5321589	9207061	7151043	7477782	8365123	5208207	6192618	8118518	4686248	9556505	3485742	4292838	3743379	15796907	5236678	6709924.9	6058725.5	3485742	15796907	9868525.1	2778718.333	41.41206309
query1	4551192	21341429	4443113	4669821	29463890	7454973	7161870	57201276	11714906	5602342	4772252	6234965	4974054	4411177	4893376	4675409	5112545	4836753	4429292		10132070.35	4935716	4411177	57201276	30850759.3	12820641.54	126.5352598
query2	5227507	4986395	4771735	5735477	6433163	6212429	5833296	7758784	5317259	7073231	4713825	8889429	6898317	10682471	4644224	5168147	17518493	74021674	16999638	9904080	10939478.7	6322796	4644224	74021674	20343652.05	15306223.25	139.9173002
query3																											
query4	3426939928	2553611261	3060565351	2448973761	2471579254	2650843934	2424473289	2699500161	2492449925	2424243199	2579312245	2674022021	2551101887	2677066679	2650831055	3390626723	2344739366	2342847274	2509481734	2370362369	2637178571	2552356574	2342847274	3426939928	3392442383	310316887.7	11.76700323
query5	53981194854	66553729920	42170283980	54590326579	41300928092	45010028840	55398694436	56631941107	39962455324	51529215058	60940048558	59505870872	44241189703	23952678664	14791842049	17521304668	25840392350	20222765510	21246039281	16796496574	40609371321	43205736842	14791842049	66553729920	65532729620	17015708943	41.90094156
query6	3275764891	3398335410	3319790739	4636193834	4312363310	3693305661	3631696929	4329993793	3183389423	3705666435	3352945229	3886853046	5720656660	4412882634	3761839174	3234296161	3869420244	2846264282	11944365381	17031241803	4877363392	3733752805	2846264282	17031241803	12198709202	3449090407	70.71628691

Neo4j

Query	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	-						
query1	-						
query2	-						
query3	-						
query4	-						
query5	-						
query6	-						

milliseconds

DATASET 0

TTDB

Query	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16	v17	v18	v19	v20	Average/Mean	Median	minimum	maximum	95th Percentile	standard deviation	CV
query0	15.577736	14.739207	15.635712	17.199346	16.499587	19.629693	11.068582	9.663514	12.916651	15.089228	11.618566	11.580497	13.414284	13.48141	12.030117	13.778189	13.230191	13.199296	12.07174	9.328525	13.587603055	13.3222375	9.328525	19.629693	17.32086535	2.545241711	18.73208695
query1	10.031654	13.397041	10.254288	9.28738	11.597396	8.315509	12.250228	12.158196	7.348808	12.226118	10.352794	9.538217	11.643862	7.415232	10.440246	6.941163	9.877828	6.48352	10.67877	9.88219	10.006022	10.142971	6.48352	13.397041	12.30756865	1.937633867	19.36467726

query2	8.640813	12.33343	10.47838	9.331824	13.115974	11.913738	9.688836	12.815091	12.333209	14.6024	8.526295	7.041079	6.701474	7.432885	9.411977	8.345152	8.584799	9.470304	10.003951	9.802535	10.0287073	9.57957	6.701474	14.6024	13.1902953	2.173698674	21.67476434
query3	26.208067	33.180235	40.523606	36.017926	45.363563	54.409573	33.919693	34.153669	34.309537	34.632159	38.867832	43.660574	38.375141	36.814684	38.964703	50.463901	34.100353	33.961786	43.312992	34.640732	38.2940363	36.416305	26.208067	54.409573	50.6611846	6.538937865	17.07560366
query4	17.179899	13.622501	12.258372	10.819371	9.88472	17.662045	10.434931	9.905229	9.681207	11.222783	9.292643	10.558438	10.432167	10.967279	8.908224	9.540851	9.554013	8.897664	8.873435	8.766019	10.92308955	10.168698	8.766019	17.662045	17.2040063	2.528382986	23.14714142
query5	18.489559	18.171771	16.537502	18.693167	19.548835	18.054252	20.509501	18.791651	27.260884	26.373722	29.852489	28.968233	30.307465	27.084587	24.7427	27.795715	22.130594	27.821862	24.136514	27.656771	23.6463887	24.439607	16.537502	30.307465	29.8752378	4.651607937	19.6715363
query6	17.183902	16.622607	17.375764	15.386933	14.712689	18.62807	15.592917	13.130944	19.865934	14.331576	14.175341	14.154898	10.729089	14.925017	16.914342	15.516724	14.63842	14.504758	14.85869	13.868282	15.35584485	14.8918535	10.729089	19.865934	18.6899632	2.014777482	13.12059025
TTDB SHALLOW																									
query0	4.748026	5.375	5.736621	7.427152	7.679105	4.483147	5.176488	7.1917	6.088643	6.113815	10.006309	9.460723	6.446591	4.00814	6.611725	4.607919	4.604064	4.318093	5.472712	5.547599	6.0551786	5.64211	4.00814	10.006309	9.4880023	1.638500288	27.05948736
query1	5.151684	5.479857	6.197202	6.657047	5.016494	5.073145	4.731125	4.617203	5.900759	5.429962	4.524414	6.060657	5.606741	4.993384	5.356432	5.093821	4.450247	4.874372	4.896354	4.742829	5.24268645	5.083483	4.450247	6.657047	6.22019425	0.5949439427	11.34807409
query2	8.122277	7.157245	6.640921	7.642258	7.582046	7.525353	6.017291	5.557375	6.07521	6.009947	5.878067	5.912933	5.817801	5.717761	5.677751	6.599639	6.582908	6.101365	5.9506	6.49267	6.4530709	6.0882875	5.557375	8.122277	7.66625895	0.7633403143	11.82910162
query3	5.718991	5.374141	5.879446	5.206972	5.433031	6.343014	5.923923	5.832324	5.970789	6.071052	4.830411	5.059503	5.422628	5.064387	5.247135	4.82975	4.725618	5.044315	5.262793	5.553583	5.4396903	5.3983845	4.725618	6.343014	6.0846501	0.4583557348	8.426136591
query4	9.349016	9.061366	9.393871	9.059322	8.436006	8.167907	8.302413	8.910069	8.372252	7.659189	8.423164	7.363001	8.670409	7.797109	7.808276	6.88716	7.496644	7.407829	8.159708	8.440799	8.2582755	8.3373325	6.88716	9.393871	9.35125875	0.697530125	8.44643806
query5	16.315698	18.198048	14.369716	16.38825	17.833399	17.512974	17.080099	15.330843	16.633613	21.201828	17.561708	18.817962	21.565549	15.996085	17.000444	19.549381	18.620109	18.944994	19.146463	17.3631	17.77151315	17.537341	14.369716	21.565549	21.22001405	1.805699562	10.16061799
query6	13.532777	8.850309	10.74796	9.996184	9.500915	11.599167	8.692629	8.808622	9.189335	8.223728	8.4347	9.164913	8.779612	8.500489	8.870443	8.597879	8.407265	8.47736	9.154807	9.069528	9.3299311	8.860376	8.223728	13.532777	11.6958475	1.291508292	13.84263483
Neo4j																									
query0	6.496296	5.821315	5.541679	5.031224	4.590113	6.699848	4.848013	4.458124	4.651019	5.371797	5.194049	4.368234	5.07737	6.816584	4.932028	6.404441	6.223147	5.712349	5.898546	5.877132	5.5006654	5.456738	4.368234	6.816584	6.7056848	0.7653300608	13.91340875
query1	37.780838	27.101683	17.978471	17.630028	24.555606	36.880305	16.12308	15.974877	16.280482	16.650992	16.841443	16.478622	16.739371	15.449736	17.304292	15.090488	14.93904	14.371748	14.422614	14.810308	19.1702012	16.564807	14.371748	37.780838	36.92533165	6.977102309	36.3955612
query2	29.677855	12.791832	12.805941	13.004193	13.105737	15.63486	16.476588	17.334899	17.499206	12.036183	11.144581	11.909165	12.642357	11.496601	10.731352	11.63121	16.575549	13.90228	12.148635	13.101233	14.28251185	12.905067	10.731352	29.677855	28.6804	4.184642196	29.29606336
query3	219.998331	111.617575	112.523164	112.818588	100.043244	110.419514	103.377606	110.955478	101.961012	107.960102	111.923776	111.495275	139.136039	115.25845	113.666972	112.344172	113.100467	112.60772	114.975662		117.6239472	112.433668	100.043244	219.998331	143.1791536	25.28388956	21.49551189
query4	828.686839	419.781511	438.506243	491.244453	427.919795	439.463916	421.358319	407.763354	411.896183	410.423703	420.116987	413.498391	412.811124	428.440226	421.178446	432.136482	416.342157	416.094169	407.458678	415.419403	444.027019	419.949249	407.458678	828.686839	508.1165723	92.38608699	20.80641111
query5	230.77517	107.303552	117.855312	112.39982	106.956608	114.367361	109.92719	106.13065	105.813395	106.08141	106.898221	105.519028	104.947821	106.7131	111.396407	106.663762	105.476494	111.430422	112.767049	110.282538	114.9852655	107.13008	104.947821	230.77517	123.5013049	27.48192689	23.90038999
DATASET 1																									
TTDB																									
query0	26.062855	27.901759	21.684094	21.903804	29.880007	28.626702	21.44495	23.67127	31.382312	25.299415	92.340862	69.264176	33.455706	31.725496	36.975116	33.611814	48.361443	35.53067	33.63855	50.896848	36.18289245	31.553904	21.44495	92.340862	70.4180103	17.54920157	48.50137837
query1	48.059416	34.958848	45.683914	26.144242	39.685075	25.387155	52.563515	67.240625	32.270385	80.250241	41.703902	28.930161	28.050604	47.113221	73.26339	29.478171	78.073989	49.560941	55.146989	76.435506	48.0000244	46.3985675	25.387155	80.250241	78.1828016	18.44196975	38.42075078
query2	66.906801	47.593801	29.996382	134.206103	37.922634	58.094762	33.576553	14.712093	12.237433	10.787224	22.563339	23.442106	10.103109	15.268309	11.505107	9.971047	12.471632	12.725944	14.179156	14.946288	29.66049115	15.1072985	9.971047	134.206103	70.2717661	29.77855508	100.3980512
query3	23934.71532	26665.6145	37494.9379	57139.91433	59495.34499	68123.2159	53747.8497	1.02E+05	62698.35821	1.12E+05	1.02E+05	1.15E+05	1.07E+05	1.14E+05	86309.62424	1.56E+05	95488.75251	1.31E+05	1.64E+05		89377.66638	98504.37625	23934.71532	163648	156222.8	39746.47574	44.47025454
query4	35485.51551	56421.78698	56821.02881	34869.5279	24904.62441	20459.8243	17407.92317	20476.30758	20038.73293	21955.84128	35691.95367	63140.96551	46126.37764	43922.74586	40360.69188	31454.65342	47386.89636	21484.95306	12703.19595	16305.28982	33370.9418	33162.09066	12703.19595	63140.96551	57137.02564	15095.8523	45.2365186
query5	1.46E+05	1.11E+05	1.85E+05	1.78E+05	1.70E+05	1.75E+05	2.01E+05	1.24E+05	2.64E+05	1.75E+05	1.03E+05	79336.56453	1.40E+05	2.18E+05	1.85E+05	93675.90993	82430.16032	1.84E+05	1.85E+05	1.72E+05	159100.6861	175413.69	79336.56453	266133	220344.9	48466.23398	30.46261783
query6	18625.4158	17330.03572	16745.38883	18507.34043	17618.33531	21623.32266	19727.98625	63639.83861	48675.94267	73233.25621	51109.87765	44348.40152	41447.80876	70375.84478	42051.19658	55989.04469	62661.80068	50082.39777	27200.11971	20966.92641	39098.01405	41749.50267	16745.38883	73233.25621	70518.71535	19753.33246	50.52255798
TTDB SHALLOW																									
query0	114.542275	93.076372	29.447069	30.661285	27.756843	24.277243	35.229596	34.288825	135.912514	355.886263	29.394652	29.159573	28.562272	28.423248	26.262621	26.970351	24.230579	25.652662	26.850925	26.49087	57.6538019	28.8609225	24.230579	355.886263	146.9112015	77.26854852	134.0216013
query1	27.845266	24.39291	23.680349	26.240856	26.722316	34.778239	31.886645	32.127521	27.882745	23.644044	24.733787	21.62927	24.237484	104.754182	8.478231	14.084252	23.793927	24.56093	26.312412	23.587443	28.76864045	24.6473585	8.478231	104.754182	38.27703615	18.78532475	65.29792321
query2	7.621754	7.402128	8.164492	7.805518	8.210864	9.61847	8.464997	8.63061	10.585028	13.074998	8.104083	7.942149	8.43204	8.899824	8.160577	9.230464	9.214334	7.402128	7.611662	10.520957	8.77670425	8.321484	7.402128	13.074998	10.7095265	1.352824983	15.4138153
query3	828.333208	934.210898	834.002539	797.114514	854.399305	975.819016	881.575456	806.81381	805.949319	863.745214	748.602387	881.099487	781.204741	827.500739	1083.15842	764.348145	920.595339	901.702994	1088.698564	888.90394	873.3889018	859.0722595	748.602387	1088.698564	1083.435427	93.14626376	10.66492413
query4	16584.96542	15285.12532	13795.05646	14776.35012	15572.07169	14730.99182	13625.14194	12509.14551	15037.77157	14276.46944	38184.72334	63190.13473	51834.01825	44118.81654	24335.8333	19580.11004	15529.48833	16221.98097	14772.02739	22642.72588	22830.1474	15550.78001	12509.14551	63190.13473	52401.82407	14545.27084	63.71080566
query5	1.13E+05	1.14E+05	1.24E+05	1.29E+05	1.33E+05	1.26E+05	1.36E+05	1.18E+05	1.67E+05	1.05E+05	1.19E+05	1.74E+05	1.14E+05	1.51E+05	1.63E+05	1.14E+05	1.60E+05	1.89E+05	1.23E+05	1.49E+05	136071.05	1.28E+05	105,089.00	188,507.00	174466	23822.62983	17.50749321
query6	35353.04179	26502.68635	25039.75007	26889.21203	23530.49285	20794.44207	55684.07036	53796.48101	58220.40507	57892.28868	59017.11922	44624.83214	50714.02498	32442.3323	26852.74595	28230.89697	25320.71898	23948.38818	25180.12914	25361.21843	36269.76383	27560.0545	20794.44207	59017.11922	58260.24078	14185.04995	39.10984423
Neo4j																									
query0	887.316724	433.043081	423.554858	424.903509	430.678627	436.562106	455.884519	435.176095	419.720207	433.364393	480.609466	449.882119	450.540636	444.717102	443.53204	451.991553	448.440623	449.079463	440.799191	468.208521	465.4002516	444.124571	419.720207	887.316724	500.9450189	100.4074877	21.57443777
query1	908.086172	472.358713	466.698093	450.025981	474.515156	455.100666	453.296316	458.605319	443.850871	449.133857	467.635311	458.111274	437.905584	432.482037	426.430455	434.222968	442.057843	480.285146	450.79482	483.052674	477.2324628	454.198491	426.430455	908.086172	504.3043489	102.6613739	21.51816997
query2	870.873704	446.232192	471.315215	440.411106	436.795195	463.795304	453.646322	437.952764	448.112421	442.995848	433.198526	436.88058	440.455601	432.966007	420.384319	421.73163	422.108342	430.501911	437.890497		461.9593153	439.181935	420.384319	870.873704	491.2931395	97.12386503	21.02433142
query3	99277.60862	57955.57514	44029.90856	55920.98518	60624.45351	47610.422	53146.41737	57985.30149	56626.86324	72953.55246	54637.23898	65455.92121	63567.64086	69587.78262	63601.28207	61387.62251	87961.2341	57460.28483	36656.64586	65502.30685	61597.45237	59304.8775	36656.64586	99277.60862	88527.05282	13941.97194	22.63400743
query4	4.69E+05	2.43E+05	2.27E+05	2.15E+05	2.41E+05	2.13E+05	2.55E+05	1.78E+05	2.48E+05	2.15E+05	2.53E+05	2.20E+05	2.41E+05	2.43E+05	1.84E+05	2.22E+05	1.79E+05	1.80E+05	2.05E+05	1.82E+05	230657.35	221,286.50	177,841.00	468,727.00	266039.75	61948.01756	26.85716174
query5	1.65E+06	7.59E+05	7.55E+05	7.31E+05	7.50E+05	8.50E+05	9.36E+05	8.86E+05	9.04E+05	9.49E+05	9.00E+05	9.37E+05	9.46E+05	9.40E+05	9.35E+05	8.09E+05	8.09E+05	7.57E+05	8.51E+05	8.25E+05	893783.2	868,348.50	730,878.00	1,646,580.00	983738.4	192801.8234	21.57143067
query6	4.39E+05	1.86E+05	2.16E+05	2.13E+05	2.26E+05	2.21E+05	1.95E+05	2.25E+05	2.26E+05	2.12E+05	2.22E+05	2.02E+05	2.04E+05	2.12E+05	2.33E+05	2.36E+05	2.61E+05	2.59E+05	2.52E+05	2.56E+05	234814.6	223,248.50	186,357.00	438,887.00	269587.5	52354.72422	22.29619633
Dataset 2																									
TTDB																									
query0	7.648842	7.038366	6.801399	6.909226	6.693154	22.808228	7.257913	6.522953	41.042529	7.22925	6.622854	6.206482	6.287964	5.667308	6.835548	6.369007	5.919298	6.117547	6.351009	6.94541	9.16371435	6.7472765	5.667308	41.042529	23.71994305	8.341155385	91.02373848
query1	6.647997	5.967867	5.579838	4.87186	5.974671	5.679501	5.895271	6.030481	6.275273	6.818906	6.541823	6.785941	7.384764	7.048891	5.9998	5.273136	6.090887	6.092669	4.735815	5.188781	6.0042126	6.0151805	4.735815	7.384764	7.06568465	0.7042410082	11.651493
query2	5.723525	6.057333	6.530404	6.925557	5.555947	8.404891	6.648011	7.750787	8.833182	6.633501	6.415419	6.174082	5.460371	5.915243	4.632955	5.650576	5.407672	6.276225	6.490328	5.488419	6.3487773	6.2251535	4.632955	8.833182	8.42630555	1.02852388	16.20034586
query3	-	-																								
query4	2205.63802	2417.080049	1604.331022	3297.449182	1861.810709	1552.524301	2088.54664	3043.00642	1205.510992	1081.76964	1523.126856	1060.765198	6564.53393	5673.617544	4913.725042	2097.344259	4866.944336	9058.277694	7479.830507	2939.117373	3326.747436	2311.359035	1060.765198	9058.277694	7558.752866	2322.983525	69.82746872
query5	42129.72091	52404.49568	43537.33565	45393.94383	30399.62761	23857.531	23961.56856	44177.68113	51790.24045	20548.56575	15327.931	18892.96546	26915.01564	20952.81674	18525.13423	17304.84342	30278.57046	66745.41255	75648.68374	55401.7817	36209.69327	30339.09903	15327.931	75648.68374	67190.57611	17681.12528	48.82981234
query6	9648.585105	2788.162837	2806.91773	2657.669984	3936.160284	5148.523885	3395.101914	3349.705857	3114.908791	4557.692319	3595.221551	3199.968812	3426.449932	2940.360562	2637.753703	2360.064709	3059.057319	3119.372516	2391.402167	2776.814373	3545.494718	3117.140654	2360.064709	9648.585105	5373.526946	1593.088241	44.93274895
TTDB SHALLOW																									
query0	5.13843	5.924833	7.99778	6.52409	4.773127	5.321589	9.207061	7.151043	7.477782	8.365123	5.208207	6.192618	8.118518	4.686248	9.556505	3.485742	4.292838	3.743379	15.796907	5.236678	6.7099249	6.0587255	3.485742	15.796907	9.8685251	2.778718333	41.41206309
query1	4.551151	21.341429	4.443113	4.669821	29.46389	7.454973	7.16187	57.201276	11.714906	5.602342	4.772252	6.234965	4.974054	4.411177	4.897378	4.675409	5.112545	4.836753	4.429292		10.13207035	4.935716	4.411177	57.201276	20.34365205	15.30622325	126.5352598
query2	5.227507	4.986395	4.771735	5.735477	6.433163	6.212429	5.833296	7.758784	5.317259	7.073231	4.713825	8.889429	6.898317	10.682471	4.644224	5.168147	17.518493	74.021674	16.999638	9.90408	10.9394787	6.322796	4.644224	74.021674	20.34365205	139.9173002	
query3	-	-																								
query4	3426.939928	2553.611261	3060.565351	2448.973761	2471.579254	2650.843934	2424.473289	2699.500161	2492.449925	2424.243199	2579.312245	2674.022021	2551.101887	2677.066679	2650.831055	3390.626723	2344.739366	2342.847274	2509.481734	2370.362369	2637.178571	2552.356574	2342.847274	3426.939928	3392.442383	310.3168877	11.76700323
query5	53981.19485	66553.72992	42170.28398	54590.32658	41300.92809	45010.02884	55398.69444	56631.94111	39962.45532	51529.21506	60940.04856	59505.87087	44241.1897	23952.67986	17521.30467	25840.39235	20222.76551	21246.03928	16796.49657		40609.37132	43205.73684	14791.84205	66553.72992	61220.73263	17015.70894	41.90094156
query6	3275.704689	3398.33541	3319.793739	4636.193834	4312.36331	3693.305661	3631.696929	4329.993793	3183.389423	3705.666435	3352.945229	3888.853046	5720.65666	4412.882634	3234.296161	3869.420244	2846.264282	11944.36538	17031.2418		4877.363392	3733.752805	2846.264282	17031.2418	12198.7092	3449.090407	70.71628691
																							3.485742		1646580		
Neo4j																									
query0																									
query1																									
query2																									
query3																									
query4																									
query5																									
query6																									

z-score (miliseconds)

																					Average/Mean	Median	minimum	maximum	95th Percentile	standarized standard deviation
DATASET 0																										
TTDB																										
query0	0.7819031258	0.4524534723	0.8046813161	1.419017469	1.144089159	2.373676486	-0.989698361	-1.541735519	-0.2636105432	0.5899732208	-0.7736151507	-0.7885720799	-0.6809551692	-0.0417223832	-0.6119208809	0.07487911626	-0.1404238145	-0.1525621509	-0.5955676207	-1.673349345	0	-0.1042596657	-1.673349345	2.373876486	1.466760419	1
query1	0.01322850536	1.750082437	1.281264376	-3.708663744	0.821297576	-0.8724625979	1.158219846	1.110722741	-1.371370639	1.145776835	0.178967315	-0.2414310608	0.8452783716	-1.337089952	0.224100129	-1.58175342	-0.66160007398	-1.817939942	0.3472007851	-0.6390087468	0	0.07067847147	-1.817939942	1.750082437	1.187812976	1
query2	-0.63849494	1.060276996	2.068698414	-3.205979322	1.420282736	0.867199636	-1.156362163	1.281862907	1.060175326	2.104106128	-0.2496907	-0.691177815	-0.283723916	-0.2589005	-0.01138902107	-0.1904095419	0	-0.2066235332	-1.530678258	0.7044140026	0	-0.2066235332	-1.530678258	2.104106128	1.454473906	1
query3	-1.848307715	-0.7820538145	0.3409681734	-3.480856291	1.081142969	2.4645496	-0.6689684763	-0.6331865183	-0.6093496195	-0.5600110256	0.0877500679	0.8207048012	0.0124033465	-2.2282373998	0.1025650823	1.861137841	-0.641340136	-0.6625311923	0.7675480736	-0.5586999964	0	-0.2871615144	-1.848307715	2.4645496	1.891308429	1
query4	2.474628838	1.067643417	0.5281171632	-0.04102169275	-0.4106852307	2.665322258	-0.1930714424	-0.4025737223	-0.4911765966	0.1188316669	-0.6448574283	-0.1442232257	-0.194164312	0.01747736618	-0.7968988722	-0.5466887563	-0.5414830576	-0.8010754546	-0.8106582593	-0.8531423293	0	-0.2983691767	-0.8531423293	2.665322258	2.484163509	1

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
query5	-1.108612284	-1.176930166	-1.528264376	-1.064840753	-0.8808897387	-1.202194333	-0.6743663143	-1.04366872	0.7770421216	0.5863205448	1.334183874	1.144087028	1.431994353	0.7391418938	0.235684373	0.8920197824	-0.3258646731	0.8976408495	1.053668552	0.8821496812		0	0.1705256141	-1.528264376	1.431994353	1.339074398	1
query6	0.9073245887	0.6287355112	1.002551978	0.01543006624	-0.3192192963	1.824112429	0.1176666665	-1.104291104	2.238504843	-0.5083781506	-0.585922694	-5.960692239	-2.296410344	-2.1336339613	0.7736331391	0.07984958709	-0.3560814316	-0.4224222564	-0.246754222	-0.7383261246		0	-0.2302940916	-2.296410344	2.238504843	1.65483205	1

TTDB SHALLOW

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
query0	-0.7977737995	-0.4151226613	-0.1944202283	0.8373348545	0.9811053494	-0.9594332158	-0.5362773548	0.6936351544	0.02042379867	0.03578662783	2.411431008	2.078452122	0.2388845476	-1.249336735	0.3396681735	-0.8832830918	-0.8856358531	-1.060168017	-0.3554876398	-0.3097830399		0	-0.2521016341	-1.249336735	2.411431008	2.095101066	1
query1	-0.152959705	0.3986435242	1.60437897	2.377300529	-0.3801911975	-0.2849704616	-0.8598481525	-1.051331739	1.106108497	0.31477848	-1.207294332	1.3748669952	0.6119140374	-0.4190351932	0.1911870041	-0.2502176076	-1.331956497	-0.6190742078	-0.5821261889	-0.8401757109		0	-0.2675940346	-1.331956497	2.377300529	1.643025048	1
query2	2.186712884	0.9224903844	0.2460895835	1.557872783	1.478093155	1.404723529	-0.5708854777	-1.173390011	-0.4950097524	-0.5805063504	-0.7532733293	-0.7075977645	-0.832223699	-0.963279269	-1.015693637	0.1920088554	0.1700907152	-0.4607458736	-0.658252801	0.05187607579		0	-0.477877813	-1.173390011	2.186712884	1.589314788	1
query3	0.6093535627	-0.1430096648	0.9594200892	-0.5077242027	-0.01452867171	1.970791748	1.056456074	0.8566134776	1.158704167	1.377449112	-1.329271685	-0.829459023	-0.03722501695	-0.8188035438	-0.4201001217	-1.330713796	-1.557899783	-0.862594858	-0.3859388823	0.2484810189		0	-0.09011734088	-1.557899783	1.970791748	1.407116244	1
query4	1.563718126	1.151334503	1.628023593	1.148404164	0.2547997479	-0.129554978	0.06327683697	0.9344306098	0.1634001112	-0.8588682819	0.2363890735	-1.283492236	0.5908468828	-0.6611420547	-0.6451327103	-1.965672092	-1.219225478	-1.413093091	-0.2261805138	0.2616711357		0	0.1133384741	-1.965672092	1.628023593	1.5669334	1
query5	-0.8062351045	0.2362163695	-1.883926184	-0.7660555739	0.03427258244	-1.431798114	-0.3829073763	-1.351650966	-0.6301727567	1.899719378	-0.1161907657	0.5795267331	2.101149236	-0.9832378101	-0.4270205711	0.9845889238	0.4899551064	0.6498774626	0.7614516417	-0.2261805138		0	-0.1296852886	-1.883926184	2.101149236	1.909790871	1
query6	3.254215188	-0.3713658696	1.09796345	0.5168719491	0.132390865	1.757043229	-0.493455678	-0.4036436337	-1.1088619414	-0.8565203233	-0.6931671329	-0.1277716148	-0.4261057426	-0.6422274677	-0.3557763452	-0.566819512	-0.7144097375	-0.6601359861	-0.1355965742	-0.201627122		0	-0.3635711074	-0.8565203233	3.254215188	1.831901827	1

Neo4j

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
query0	1.300916625	0.4189690389	0.05358942275	-0.613384243	-1.189751255	1.566882919	-0.8527724618	-1.362211487	-1.110169904	-0.1683827757	-0.4006328978	-1.47966408	-0.553088669	1.719413188	-0.7429962955	1.180896513	0.9440130958	0.2765912524	0.5198810557	0.4919009709
query1	2.667387688	1.136787372	-0.1708058944	-0.2207468275	0.7718684006	2.538317917	-0.4367316208	-0.4579729605	-0.41417118255	-0.361068118	-0.3337715425	-0.3857732165	-0.3484011116	-0.533239307	-0.2674332577	-0.5847288773	-0.6877429895	-0.6804525704	-0.6248859493	
query2	3.9883760036	-0.02557262663	-0.007804434328	-1.027818481	-0.1349446336	1.014004773	-0.1591363525	-1.1392353814	-0.2237439281	-0.2503048027	-0.2671685998	-0.2385758661	-0.3213347167	-0.7037414553	-0.4702694371	-0.3677617871	-0.3856006177	-0.3541398548	-0.1432139438	-0.7070439234
query3	3.679010637	-0.3562263583	-0.3528547438	-0.3054786503	-0.2812127764	0.3231693623	1.524316089	0.7294260793	0.7586903682	-0.5368030873	-0.749673156	-0.567156459	-0.3919462581	-0.6657464891	-0.8486173211	-0.6335791033	0.5479649257	-0.09086364669	-0.5099305389	-0.282289093
query4	4.04899984	-0.2375574746	-0.2017406073	-1.1900563198	0.6953327756	-0.284941875	-0.5634557308	-0.2637440121	-0.6194833098	-0.3822138529	-0.06724331479	-0.2107331786	-0.2423945506	0.8508227646	-0.09355756224	-0.1565019623	-2.0881199034	-1.1789077494	-1.983963407	-0.1047420844
query5	4.163611996	-0.2624367883	-0.05975765654	0.5110884475	-0.1743468576	0.04939166815	-2.453691967	-0.392523201	-0.3477886876	-0.3637270183	-0.2588055489	-0.3304461629	-0.3378852376	-0.2473161673	-1.287048444	-0.2996648397	-0.3023490967	-0.3858208859	-0.3096528588	
query6	4.213310987	-0.2795187372	0.1044339617	-0.09407802847	-0.2921431795	-0.02248403114	-0.1840509772	-0.3221977679	-0.3337419002	-0.3239894909	-0.2942677394	-0.3444531942	-0.3652380177	-0.3010038391	-0.1305897696	-0.3027991281	-0.3460009023	-0.1293520471	-0.08071546472	-0.171120734

DATASET 1

TTDB

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
query0	-0.5766665457	-0.4718809238	-0.8261799484	-0.8136602905	-0.3591551116	-0.430571751	-0.8398070071	-0.7129453952	-0.2735497926	-0.8201693795	3.200029888	1.885059181	-0.1554023093	-0.253994259	0.04514299678	0.1465068618	0.6939660759	-0.03716536318	-0.1449833737	0.83844017
query1	0.00323194976	-0.7071466106	-0.1255891000	-1.185111065	-0.450871033	-1.228163458	0.2474513657	1.043305073	-0.852926212	1.748740348	-0.3414018397	-1.034046995	-1.081740219	-0.04808615414	1.369884342	-1.004331623	1.630734949	0.08463936452	0.3875380286	1.541889613
query2	1.250776263	0.6022222973	0.01127962217	3.510768457	0.2774527786	0.9548573051	0.131508107	-0.5850874263	-0.6337872036	-0.2383309778	-0.2008209161	-0.6567606151	-0.4833069339	-0.6096798217	-0.66119541 73	-0.5772227398	-0.5686826344	-0.5198820127	-0.4941207897	
query3	-1.646509529	-1.577801571	-1.305341606	-0.8110845414	-0.7518231702	-0.534750568	-0.8964270673	3.05E-01	-0.6712370764	5.73E-01	3.14E-01	6.30E-01	4.41E-01	6.44E-01	6.10E-01	-0.077190293	1.67E+00	1.537516475	1.05E+00	1.87E+00
query4	0.1400764708	1.526965469	1.553412589	0.09927138042	-0.560837323	-0.8552758232	-1.057444013	-0.8541839155	-0.8831700314	-0.7561746295	0.1537516283	1.972066441	0.8449629468	0.6989869703	0.043024548	-1.126941 3841	0.9284639437	-0.7873678485	-1.369100659	-1.130486153
query5	-2.71E-01	-9.88E-01	5.44E-01	3.90E-01	2.15E-01	3.36E-01	8.65E-01	-7.14E-01	2.21E+00	3.25E-01	-1.16E+00	-1.645766858	-3.88E-01	1.21E+00	6.84E-01	-1.349902453	-1.581936939	5.20E-01	5.42E-01	2.57E-01
query6	-1.036412377	-1.101990177	-1.131587557	-1.042389869	-1.087395192	-0.8846452329	-0.9805954436	1.242414393	0.4848765969	1.72807511	6.080030203	0.265797555	1.1189568755	1.583420458	0.1496030031	0.8550977753	1.19290184	0.5560774993	-0.6023233989	-0.9178748792

TTDB SHALLOW

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
query0	0.7362435841	0.4584345219	-0.3650480492	-0.3493338159	-0.3869227451	-0.431955298	-0.2902112998	-0.3023866418	1.012814575	3.859687632	-0.3657264235	-0.3687687869	-0.3764989825	-0.378298214	-0.4062607814	-0.3971014273	-0.4325592177	-0.4141547954	-0.3986470238	-0.4033068111
query1	-0.04915403179	-0.2329334472	-0.2708652375	-0.1345616583	-0.1089320774	0.31990921 8	0.1659808703	0.1880034327	-0.04715891058	-0.272797863 1	-0.214787527 2	-0.4001204141	-0.24720246 1	4.0449416	-1.080120239	-0.78169948 17	-0.264819135	-0.2239892313	-0.1307525147	-0.2758109066
query2	-0.8537322008	-1.016078404	-0.4525435719	-0.7718949696	-0.4182656716	0.6222281231	-0.2304121035	-0.1079919811	1.336701918	3.177272599	-0.4971975374	-0.6168981653	-0.254726409 1	0.9810093704 3	-0.4557957212	-0.6927734643	0.3354164476	0.3235368621	-0.8611921458	1.289341025
query3	-0.4837090822	0.6529730104	-0.4228442576	-0.8188668517	-0.2038685824	1.099669596	0.0878892391 4	-0.7147371141	-0.7240181198	-0.3855327383	-1.339683523	0.0827793294	-0.989671051	-0.492646305 9	2.252044363	-1.170640156	0.5067990421	-0.4543171803	2.311522261	1.566564045
query4	-0.4293616838	-0.5187268197	-0.6211703471	-0.5537055565	-0.498699007	-0.5568239788	-0.632852118 2	-0.7096778418	-0.5357326045	-0.5880727872	1.055604428	2.774784173	1.994041304	1.463614488	1.035172126	-0.2234428904	-0.5019266502	-0.4543171803	-0.5540027477	-0.01288539244
query5	-9.57E-01	-9.09E-01	-5.13E-01	-2.80E-01	-1.20E-01	-4.33E-01	-8.94E-03	-7.46E-01	1.29E+00	-1.30E+00	-9.15E-01	6.38E-01	1.13E+00	7.20E+00	1.01E+00	2.20E+00	-5.36E-01	5.32E-01		
query6	-0.06462592939	-0.688547274	-0.7916795358	-0.6612984681	-0.8980772734	-1.090959976	1.368645623	1.235576698	1.547449992	1.52431785	1.603614754	0.5890052088	1.018273549	-0.2698215052	-0.6638692082	-0.5667140322	-0.771872139	-0.8686170083	-0.7817832664	-0.769017059

Neo4j

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
query0	4.202041922	-0.3222585417	-0.4167557273	-0.4033239302	-0.3458071241	-0.2872111057	-0.09477114478	-0.3010149666	-0.4549465943	-0.3190584616	0.1514768948	-0.154551547	-0.1479931019	-0.2059921031	-0.2177946293	-0.133542815	-0.1689080062	-0.1625455325	-0.245012211	0.02796872539
query1	4.196843396	-0.04747403637	-0.102612788	-0.2650118614	-0.02646863855	-0.2155805631	-0.233563068	-0.1814425727	-0.3251621376	-0.2737018289	-0.09348357062	-0.1862549474	-0.3830737627	-0.4359032427	-0.4948500621	-0.4189452483	-0.3426275964	0.0297354602 1	-0.2575227837	0.0569329151
query2	4.210235585	-0.1619288863	0.09632919466	-0.2218635481	-0.25909344	0.0189032983	-0.1134613959	-0.08559203547	-0.2471749584	-0.1952507069	-0.296125238 3	-0.2582143049	-0.2214054218	-0.2985192698	-0.4280619628	-0.4144189728	-0.4103311968	-0.3238899141	-0.2908769141	0.0241816067 6
query3	2.702641807	-0.2612167953	-1.260047279	-0.407149520 6	-0.0697914847	-1.00323185 5	-0.6601577974	-0.2590846474	-0.3565198059	0.8148261037	-0.4992273274	0.2767520185	0.1413134738	0.5731133499	0.1437264187	-0.01505022845	1.890965054	-0.2967419216	-1.788900925	0.2800790657
query4	3.84E+00	1.96E-01	-5.95E-02	-2.49E-01	1.74E-01	-2.85E-01	3.99E-01	-5.18E-01	2.79E-01	-2.58E-01	3.68E-01	-1.70E-01	1.66E-01	1.96E-01	-7.57E-01	-1.33E-01	-8.28E-01	-8.19E-01	-4.22E-01	-7.93E-01
query5	3.90E+00	-6.97E-01	-7.21E-01	-8.45E-01	-7.47E-01	-2.27E-01	2.19E-01	-3.97E-02	5.80E-02	2.86E-01	3.11E-02	2.22E-01	2.70E-01	2.41E-01	2.15E-01	-4.38E-01	-4.41E-01	-7.08E-01	-2.24E-01	-3.55E-01
query6	3.90E+00	-9.26E-01	-3.67E-01	-4.14E-01	-1.60E-01	-2.67E-01	-7.53E-01	-1.90E-01	-1.59E-01	-4.29E-01	-2.52E-01	-6.24E-01	-5.97E-01	-4.39E-01	-3.74E-02	2.22E-02	4.94E-01	4.58E-01	3.32E-01	4.11E-01

Dataset 2

TTDB

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
query0	-0.1816142105	-0.2548026325	-0.2832120061	-0.2702849001	-0.2961892251	1.635808195	-0.2284816985	-0.3165941921	3.821870374	-0.231918033	-0.3046173141	-0.354535099	-0.3447664283	-0.4191753047	-0.279117969	-0.3350503882	-0.3889648616	-0.365197291	-0.3372081229	-0.265946892
query1	0.8573547876	-0.1084083419	-0.6593972725	-1.664703683	-0.0987468767	-0.5178789587	-0.2114923702	-0.01949843602	0.3280984738	1.100040172	0.7065910593	1.053230913	1.903540669	1.426611612	-0.06629066825	0.0662767457 7	0.0688065863 2	-1.857883288	-1.214685868	
query2	-0.6079122829	-0.2833617241	0.1765896772	0.5607839653	-0.7697558756	1.999091844	0.290935102	1.363128	2.415505121	0.2768275054	0.06479353691	-0.1698505046	-0.8637682771	-0.421511166	-1.668237688	-0.6788382005	-0.9150057846	-0.07054021924	0.1376250982	-0.8364961276
query3	-	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
query4	-0.4826161717	-0.3915944202	-0.7414673394	-0.01261233814	-0.6306272562	-0.7637691424	-0.5330217724	-1.1221450831	-0.9131517382	-0.9664200247	-0.7764241805	-0.9754620355	1.39380519	1.010282717	0.6831635219	0.5292345656	0.6630248918	2.467314209	1.787822869	-0.1668673318
query5	0.334821882	0.9159373145	0.4144330332	0.5194381244	-0.3286027093	-0.6986072485	-0.6927231456	0.4506493636	0.881196583	-0.885754005	-1.181019983	-9.793905956	-0.256069153	-1.009194205	-1.06921078 5	-0.335449397	1.727023524	2.230570162	1.085456277	
query6	3.830980753	-0.4753860214	-0.4636133572	-0.5572979016	0.2452253155	1.006240035	-0.09440331029	-1.1228989428	-0.2702893794	0.635368196	0.0312141112	-0.2168906258	-0.04772579514	-0.3798497409	-0.5697995826	-0.7441081908	-0.3053424073	-0.267481857 3	-0.7244737043	-0.4825095842

TTDB SHALLOW

label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
query0	-0.5655466699	-0.2825374169	0.4634709048	-0.06687791914	-0.697011236	-0.4996317487	0.8966647082	1.1587487637	0.276334989	0.5956696223	-0.5404354526	-0.1861674477	0.5069218723	-0.7282770894	1.024421967	-1.160312962	-0.8698567506	-1.067595036	3.270206264	-0.5301893619
query1	-0.4353073386	0.8743211961	-0.443734218	-0.4260511716	1.507866793	-2.088114967	-0.2316733012	3.671361179	0.1234599411	-0.3533152639	-0.4180616338	-0.3039711653	-0.4023212358	-0.446225201	-0.4083019038	-0.4224579696	-0.4256153119	-0.3915190463	-0.4113030063	-0.4448122452
query2	-0.3731796935	-0.3889322404	-0.4029566014	-0.3399925387	-0.2944106869	-0.3088318799	-0.3336017394	-0.2078040186	-0.3673159347	-0.2525931863	-0.4067400298	-0.1339356984	-0.2640208257	-0.01679105915	-0.4112872652	-0.3770578546	0.4298261036	4.121342951	0.3959278002	-0.06764560291
query3	-	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
query4	2.54501572	-0.2692966871	1.364369124	-0.6064923222	-0.533645842	0.04403680155	-0.6854453955	0.2008320935	-0.486389841	-0.6861868034	-0.186474949	0.1187284729	-0.2773831758	0.1285399209	0.0439952682	2.427995969	-0.9423889464	-0.9484862362	-0.4115046325	-0.859818503
query5	0.7858516843	1.524729806	0.09173362475	0.821649882 7	0.04064225436	0.2586232248	0.8691570339	0.94163398 3	-0.03801875074	0.641750738 9	1.194819112	1.110532603	0.2134391458	-0.9789008917	-1.517276145	-1.356867747	-0.8679614244	-1.198104991	-1.137967986	-1.399464156
query6	-0.4643539351	-0.4288168205	-0.451588526	-0.06992265479	-0.1638113286	-0.3432956493	-0.361157962 2	-0.1586969959	-0.4911364357	-0.3397118714	-0.4419768643	-0.287180163 2	0.2244972931	-0.1346676089	-0.3234256242	-0.4763789681	-0.2922344818	-0.5888796379	2.048946579	3.523792356

Neo4j

label	1	2	3	4	5
query0					
query1					
query2					
query3					
query4					
query5					