

150 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-All	0.09	0.077	0.077	0.075	0.076	0.079
OBIE-Calculation	0.006	0.006	0.006	0.006	0.006	0.006
SQL join	0.49	0.39	0.39	0.41	0.38	0.412

2500 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-All	0.124	0.1355	0.133	0.1828	0.14	0.14306
OBIE-Calculation	0.012	0.011	0.0119	0.013	0.0113	0.01184
SQL join	2.517	2.542	2.593	2.497	2.482	2.5262

5000 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-All	0.221	0.218	0.22	0.222	0.209	0.218
OBIE-Calculation	0.022	0.022	0.024	0.03	0.025	0.0246
SQL join	5.561	5.557	5.586	5.495	5.538	5.5474

10000 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-All	0.408	0.36	0.38	0.3647	0.379	0.37834
OBIE-Calculation	0.05	0.045	0.0468	0.037	0.0378	0.04332
SQL join	13.125	13.067	13.108	13.386	13.081	13.1534

50000 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-All	1.528	1.560	1.5458	1.5869	1.574	1.55894
OBIE-Calculation	0.155	0.172	0.153	0.1635	0.153	0.1593
SQL join	63.523	63.588	63.327	63.64	63.313	63.4782

Average Running Time Comparsion

	150	2500	5000	10000	50000
OBIE-All	0.079	0.14306	0.218	0.37834	1.55894
OBIE-Calculation	0.006	0.01184	0.0346	0.04332	0.1593
SQL join	0.412	2.5262	5.5474	13.1534	63.4782



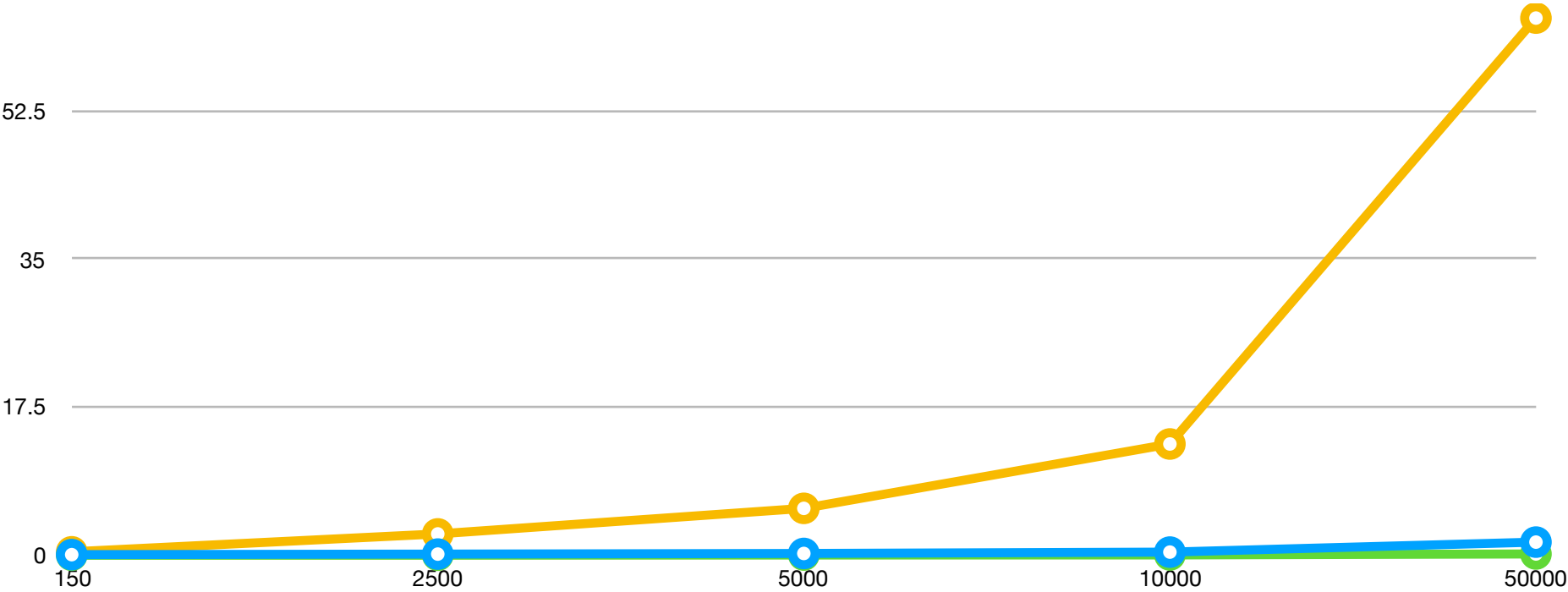
OBIE-All



OBIE-Calculation



SQL join



Increase Ratio Between Different Scales

	150-2500	2500-5000	5000-10000	10000-50000
OBIE-AII	1.81088607594937	1.52383615266322	1.73550458715596	4.12047364804144
OBIE-Calculation	1.97333333333333	2.0777027027027	1.7609756097561	3.67728531855956
SQL join	6.13155339805825	2.19594648088037	2.37109276417781	4.8259917587848
Standard Ratio	16 2/3	2	2	5

50000 Records Test Result-1

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-AII	1.528	1.560	1.5458	1.5869	1.574	1.55894
OBIE-Calculation	0.155	0.172	0.153	0.1635	0.153	0.1593
SQL join	63.523	63.588	63.327	63.64	63.313	63.4782

100000 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-AII	3.319	2.81	2.764	3.237	2.781	2.9822
OBIE-Calculation	0.247	0.217	0.265	0.288	0.253	0.254
SQL join	100.89	97.241	97.39	102.478	101.389	99.8776

500000 Records Test Result

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
OBIE-AII	14.104	15.537	13.823	13.441	13.705	14.122
OBIE-Calculation	1.852	1.635	1.825	1.732	1.778	1.7644

	Time(second)	Time(second)	Time(second)	Time(second)	Time(second)	Average
SQL join	283.953	270.510	277.622	284.947	277.786	278.9636

Average Running Time Comparsion-Over 50,000

	50000	100000	500000
OBIE-All	1.55894	2.9822	14.122
OBIE-Calculation	0.1593	0.254	1.7644
SQL join	63.4782	99.8776	278.9636

