## Sybase vs Oracle: Scalar Subquery & Inline View

Query	Sybase									Oracle							
	Test1	Test2	Test3	Test4	Test5	Avg	Pct	Pct	Pct	Test1	Test2	Test3	Test4	Test5	Avg	Pct	Pct
1 Subquery COUNT	1.160	1.150	1.170	1.153	1.160	1.159			32.9%	3.600	3.500	3.690	3.390	3.430	3.522		304.08
3 InlineView COUNT	1.593	1.556	1.583	1.593	1.553	1.576	36.0%		27.7%	5.260	5.300	6.140	5.590	6.100	5.678	61.2%	360.4%
3 InlineView COUNT Improved	1.183	1.173	1.190	1.180	1.183	1.182	2.0%										480.5%
1 Subquery SUM	2.173	2.173 2.153 2.163 2.153				2.163		86.7%		(Al	(Abandoned at 120 min			ns)			
3 InlineView SUM	3.033	2.933	3.033	2.933	3.013	2.989	38.2%	158.0%	3.8%	79.00	79.00				79.00		2,643.0%
3 InlineView SUM Improved	2.183	2.180	2.183	2.143	2.143	2.166	0.2%	87.0%									3,646.68
Configuration	Sybase	e ASE 1	5.0.3 w	/ith 680	MB Da	taCache	;			Oracle	10.2.0	.3.0					
"O/S"	On WindowsXP 1.0GB Allo				ocated					On Wi	ndows	Server (	details	not pro	vided, n	nassive	o/s cache)
	On	On Parallels 3.0, on MacOS 10.4.11 (Demo system)															
Machine	Intel C	Intel Core Duo 2.16GHz								Unknown							
Tables	REF_Customer				1000 rows; Random Customers				Same as Sybase side								
	Custor	nerTrai	isaction	l	2M rov	M rows; 1K Credits & 1K Debits per C					er						
	CustomerTransaction_2 2M rows; 1K Credits & 1K Debits per Cus										er						
	All rows padded to 250B, 8 rows per page																
Indices	2 + 1 +	+ 1								1+1+	- 1 (No	t used: '	Fablesc	an)			
Result Set (Scalar Data Points)	1000 Customers with COUNT/SUM(Credit/Debit)									Same a	as Syba	se side					
	2 Scalar data points per row; 1000 source rows per Scalar data point Same as Sybase side																
Sybase Note	We are testing Query Processing, Logical I/O; not Physical I/O																
	Idle server; 2 x Engines; Parallelism Off; 1 Engine used																
	Single Client & Server on same system																
Improved	l = Syba	ase side	only; C	Code Im	proved:	Subque	ery fat J	oin & GI	ROUP B	Y repla	ced wit	h Subq	uery.				
Note																	
a. Oracle figures recorded in se	econds;	Sybas	e figur	es reco	orded in	millis	ecs; all	figures	are seco	onds							
b. Row counts now fixed up, th			•					•			t is "no	ormal"	)				
c. Table populations are identic						_											
d. Although the physical tables			•														
e. Pink/Blue Percentage <i>colum</i>		_			-					-				ıct			
f. Green Percentage <i>column</i> us		•				•							produ				
g. All code used on the Sybase		-			-				pures in	e prou	, p						
h. Although only one transaction									vora uca	d on th	o Oroc	la sida	Lder	unared	ad my	sida ta	quit
n. Annough only one transaction	on table	, is leq	uneu, s	separat	cables	(ine se	conu a	(copy) v	vere use	u un un	ic Orac	ie side	. 1 000	viigrau	cu my	side io	suit.