

ЗАДАНИЕ 1

Вставка строки с длиной в 10 символов

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	1	70
LOAD TABLE CONVENTIONAL				1	70
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

Вставка строки с длиной в 8000 символов

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	9	98082
LOAD TABLE CONVENTIONAL				9	98082
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

LAST_ELAPSED_TIME=98082

Вставка больших строк несколько раз подряд

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	9	93762
LOAD TABLE CONVENTIONAL				9	93762
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	15	89667
LOAD TABLE CONVENTIONAL				15	89667
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	9	83230
LOAD TABLE CONVENTIONAL				9	83230
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

Вставка маленьких строк несколько раз подряд

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	1	107
LOAD TABLE CONVENTIONAL				1	107
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	1	83
LOAD TABLE CONVENTIONAL				1	83
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

OPERATION	OBJECT_NAME	OPTIONS	COST	LAST_CR_BUFFER_GETS	LAST_ELAPSED_TIME
INSERT STATEMENT			1	1	76
LOAD TABLE CONVENTIONAL				1	76
Other XML					
{info}					
info type="db_version"					
11.2.0.2					
info type="parse_schema"					
"SYS"					
info type="plan_hash_2"					
0					

Удаление большой строки

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
SELECT STATEMENT			2		128	3
TABLE ACCESS	LNGDATATABLE	FULL	2	11	128	3
Other XML						
{info}						
info type="db_version"						
11.2.0.2						
info type="parse_schema"						
"SYS"						
info type="dynamic_sampling"						
2						
info type="plan_hash"						
4101724716						
info type="plan_hash_2"						
1532505292						
{hint}						
IGNORE_OPTIM_EMBEDDED_HINTS						
OPTIMIZER_FEATURES_ENABLE("11.2.0.2")						
DB_VERSION("11.2.0.2")						
ALL_ROWS						
OUTLINE_LEAF(@"SEL\$1")						
FULL(@"SEL\$1" "LNGDATATABLE"@"SEL\$1")						

Удаление маленькой строки

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		73	3
DELETE	LNGDATATABLE				73	3
COUNT					67	3
FILTER					61	3
Filter Predicates						
ROWNUM=8						
TABLE ACCESS	LNGDATATABLE	FULL	2	18	31	3
Other XML						
{info}						
info type="db_version"						
11.2.0.2						
info type="parse_schema"						
"SYS"						
info type="dynamic_sampling"						
2						
info type="plan_hash"						
1243795201						
info type="plan_hash_2"						
16915045						
{hint}						
IGNORE_OPTIM_EMBEDDED_HINTS						
OPTIMIZER_FEATURES_ENABLE("11.2.0.2")						
DB_VERSION("11.2.0.2")						
ALL_ROWS						
OUTLINE_LEAF(@"DEL\$1")						
FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")						

Удаление нескольких больших строк подряд

OPERATION

DELETE STATEMENT

DELETE

COUNT

Filter Predicates
ROWNUM=1

TABLE ACCESS

Other XML

info

info type="db_version"
11.2.0.2

info type="parse_schema"
"SYS"

info type="dynamic_sampling"
2

info type="plan_hash"
2817197622

info type="plan_hash_2"
2066993424

hint

IGNORE_OPTIM_EMBEDDED_HINTS

OPTIMIZER_FEATURES_ENABLE("11.2.0.2")

DB_VERSION("11.2.0.2")

ALL_ROWS

OUTLINE_LEAF(@"DEL\$1")

FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		223	3
DELETE	LNGDATATABLE				223	3
COUNT		STOPKEY			54	3
TABLE ACCESS	LNGDATATABLE	FULL	2	5	43	3

OPERATION

DELETE STATEMENT

DELETE

COUNT

Filter Predicates
ROWNUM=1

TABLE ACCESS

Other XML

info

info type="db_version"
11.2.0.2

info type="parse_schema"
"SYS"

info type="dynamic_sampling"
2

info type="plan_hash"
2817197622

info type="plan_hash_2"
2066993424

hint

IGNORE_OPTIM_EMBEDDED_HINTS

OPTIMIZER_FEATURES_ENABLE("11.2.0.2")

DB_VERSION("11.2.0.2")

ALL_ROWS

OUTLINE_LEAF(@"DEL\$1")

FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		199	3
DELETE	LNGDATATABLE				199	3
COUNT		STOPKEY			54	3
TABLE ACCESS	LNGDATATABLE	FULL	2	5	44	3

OPERATION

DELETE STATEMENT

DELETE

COUNT

Filter Predicates
ROWNUM=1

TABLE ACCESS

Other XML

info

info type="db_version"
11.2.0.2

info type="parse_schema"
"SYS"

info type="dynamic_sampling"
2

info type="plan_hash"
2817197622

info type="plan_hash_2"
2066993424

hint

IGNORE_OPTIM_EMBEDDED_HINTS

OPTIMIZER_FEATURES_ENABLE("11.2.0.2")

DB_VERSION("11.2.0.2")

ALL_ROWS

OUTLINE_LEAF(@"DEL\$1")

FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		128	3
DELETE	LNGDATATABLE				128	3
COUNT		STOPKEY			40	3
TABLE ACCESS	LNGDATATABLE	FULL	2	5	30	3

Удаление нескольких маленьких строк подряд

OPERATION

DELETE STATEMENT

DELETE

COUNT

FILTER

Filter Predicates

ROWNUM=3

TABLE ACCESS

LNGDATATABLE FULL

Other XML

{info}

info type="db_version"

11.2.0.2

info type="parse_schema"

"SYS"

info type="dynamic_sampling"

2

info type="plan_hash"

1243795201

info type="plan_hash_2"

16915045

{hint}

IGNORE_OPTIM_EMBEDDED_HINTS

OPTIMIZER_FEATURES_ENABLE('11.2.0.2')

DB_VERSION('11.2.0.2')

ALL_ROWS

OUTLINE_LEAF(@"DEL\$1")

FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		104	3
DELETE	LNGDATATABLE				104	3
COUNT					96	3
FILTER					92	3
TABLE ACCESS	LNGDATATABLE FULL		2	13	66	3

OPERATION

DELETE STATEMENT

DELETE

COUNT

FILTER

Filter Predicates

ROWNUM=3

TABLE ACCESS

LNGDATATABLE FULL

Other XML

{info}

info type="db_version"

11.2.0.2

info type="parse_schema"

"SYS"

info type="dynamic_sampling"

2

info type="plan_hash"

1243795201

info type="plan_hash_2"

16915045

{hint}

IGNORE_OPTIM_EMBEDDED_HINTS

OPTIMIZER_FEATURES_ENABLE('11.2.0.2')

DB_VERSION('11.2.0.2')

ALL_ROWS

OUTLINE_LEAF(@"DEL\$1")

FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		84	3
DELETE	LNGDATATABLE				84	3
COUNT					78	3
FILTER					71	3
TABLE ACCESS	LNGDATATABLE FULL		2	13	46	3

OPERATION

DELETE STATEMENT

DELETE

COUNT

FILTER

Filter Predicates

ROWNUM=3

TABLE ACCESS

LNGDATATABLE FULL

Other XML

{info}

info type="db_version"

11.2.0.2

info type="parse_schema"

"SYS"

info type="dynamic_sampling"

2

info type="plan_hash"

1243795201

info type="plan_hash_2"

16915045

{hint}

IGNORE_OPTIM_EMBEDDED_HINTS

OPTIMIZER_FEATURES_ENABLE('11.2.0.2')

DB_VERSION('11.2.0.2')

ALL_ROWS

OUTLINE_LEAF(@"DEL\$1")

FULL(@"DEL\$1" "LNGDATATABLE"@"DEL\$1")

OPERATION	OBJECT_NAME	OPTIONS	COST	CARDINALITY	LAST_ELAPSED_TIME	LAST_CR_BUFFER_GETS
DELETE STATEMENT			2		66	3
DELETE	LNGDATATABLE				66	3
COUNT					59	3
FILTER					55	3
TABLE ACCESS	LNGDATATABLE FULL		2	13	36	3

ЗАДАНИЕ 2

Idx1

Script Output x Autotrace x Query Result x																								
All Rows Fetched: 1 in 0,008 seconds																								
HEIGHT	BLOCKS	NAME	PARTITION_NAME	LF_ROWS	LF_BKS	LF_ROWS_LEN	LF_BK_LEN	BR_ROWS	BR_BKS	BR_ROWS_LEN	BR_BK_LEN	DEL_LF_ROWS	DEL_LF_ROWS_LEN	DISTINCT_KEYS	MOST_REPEATED_KEY	BTREE_SPACE	USED_SPACE	PCT_USED	ROWS_PER_KEY	BLKS_GETS_PER_ACCESS	PRE_ROWS	PRE_ROWS_LEN	OPT	
1	2	96 IDX1	(null)	18009	94	667329	7996	93	1	2526	8032	0	0	17807	32	759656	671171	89	1,01134385354074240467231987420677261751	3,005671926770371202336159937103386630875	106	1316		

Idx2

Script Output

Autotrace

Query Result

Idx3

Script Output x Autotrace x Query Result x																								
All Rows Fetched: 1 in 0,008 seconds																								
HEIGHT	BLOCKS	NAME	PARTITION_NAME	LF_ROWS	LF_BKS	LF_ROWS_LEN	LF_BK_LEN	BR_ROWS	BR_BKS	BR_ROWS_LEN	BR_BK_LEN	DEL_LF_ROWS	DEL_LF_ROWS_LEN	DISTINCT_KEYS	MOST_REPEATED_KEY	BTREE_SPACE	USED_SPACE	PCT_USED	ROWS_PER_KEY	BLKS_GETS_PER_ACCESS	PRE_ROWS	PRE_ROWS_LEN	OPT	
1	2	128 IDX3	(null)	18011	123	198121	7996	122	1	3400	8032	0	0	17809	32	991540	880261	89	1,01134257959458700656971194339940479533	3,00567128979729350328485597169970239766	17811	678740		