Posted by pastor on Thu, 28 Mar 2024 12:19:36 GMT
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stmt

"FB50 not Optimized"
1 record(s) was(were) inserted into LOG_EVENTS
26 record(s) was(were) inserted into TMP$ATTRIBUTES
26536 record(s) was(were) inserted into TMP$ITEMS
563640 record(s) was(were) inserted into TMP$VALUES
70 record(s) was(were) inserted into TMP$ATTRIBUTE_AGREGATES
2 record(s) was(were) inserted into TMP$DIMENSIONS
26536 record(s) was(were) inserted into TMP$FACTS
1 record(s) was(were) inserted into STAT$REPORTS
------ Performance info ------
Prepare time = 0ms
Execute time = 2m 1s 140ms
Avg fetch time = 62,73 ms
Current memory = 1 688 768 688
Max memory = 1 720 519 616
Memory buffers = 99 999
Reads from disk to cache = 3 261
Writes from cache to disk = 1 486
Fetches from cache = 290 453 657

"FB50 Optimized"

1 record(s) was(were) inserted into LOG_EVENTS
26 record(s) was(were) inserted into TMP$ATTRIBUTES
26536 record(s) was(were) inserted into TMP$ITEMS
563640 record(s) was(were) inserted into TMP$VALUES
70 record(s) was(were) inserted into TMP$ATTRIBUTE_AGREGATES
2 record(s) was(were) inserted into TMP$DIMENSIONS
26536 record(s) was(were) inserted into TMP$FACTS
1 record(s) was(were) inserted into STAT$REPORTS

------ Performance info ------

Prepare time = 0ms
Execute time = 2m 18s 15ms
Avg fetch time = 71,18 ms
Current memory = 1 708 350 400
Max memory = 1 804 928 048
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 1 486
Fetches from cache = 223 855 928

"FB25 not Optimized"

26536 record(s) was(were) inserted into TMP$ITEMS
563640 record(s) was(were) inserted into TMP$VALUES
70 record(s) was(were) inserted into TMP$ATTRIBUTE_AGREGATES
26536 record(s) was(were) inserted into TMP$FACTS
2 record(s) was(were) inserted into TMP$DIMENSIONS
1 record(s) was(were) inserted into LOG_EVENTS
1 record(s) was(were) inserted into STAT$REPORTS
26 record(s) was(were) inserted into TMP$ATTRIBUTES

------ Performance info ------
Prepare time = 0ms
Execute time = 2m 17s 453ms
Avg fetch time = 70,89 ms
Current memory = 1 682 077 032
Max memory = 1 707 258 368
Memory buffers = 99 999
Reads from disk to cache = 3 584
Writes from cache to disk = 1 500
Fetches from cache = 370 518 541

"FB25 Optimized"

26536 record(s) was(were) inserted into TMP$ITEMS
563640 record(s) was(were) inserted into TMP$VALUES
70 record(s) was(were) inserted into TMP$ATTRIBUTE_AGREGATES
26536 record(s) was(were) inserted into TMP$FACTS
2 record(s) was(were) inserted into TMP$DIMENSIONS
1 record(s) was(were) inserted into LOG_EVENTS
1 record(s) was(were) inserted into STAT$REPORTS
26 record(s) was(were) inserted into TMP$ATTRIBUTES

------ Performance info ------
Prepare time = 0ms
Execute time = 1m 9s 688ms
Avg fetch time = 35,94 ms
Current memory = 1 682 268 816

Max memory = 1 707 258 368
Memory buffers = 99 999
Reads from disk to cache = 4
Writes from cache to disk = 1 566
Fetches from cache = 169 515 628

Posted by hvlad on Thu, 28 Mar 2024 12:24:45 GMT
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Posted by pastor on Thu, 28 Mar 2024 12:33:18 GMT
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Posted by pastor on Thu, 28 Mar 2024 12:58:36 GMT
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Posted by pastor on Thu, 28 Mar 2024 13:26:04 GMT
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```
select sum( cast(f.FACT_VALUE as numeric(15,2)))
                        from TMP$ITEMS i
                            join TMP$VALUES v0 on
v0.ID_ITEM = i.ID  and v0.ID_ATTRIBUTE = 0 and v0.ATTRIBUTE_VALUE = :OPER
                            join TMP$VALUES v7 on

                            join TMP$VALUES vG on
vG.ID_ITEM = i.ID and vG.ID_ATTRIBUTE = 13
                            join TMP$FACTS f on
f.ID_ITEM = i.ID
                         where v0.ID_ATTRIBUTE = 0 and
v0.ATTRIBUTE_VALUE = :OPER
                              and
v7.ATTRIBUTE_VALUE = :S7
                              and
vG.ATTRIBUTE_VALUE = :S13
                              and f.ID_DIMENSION
= :ID_PAY


------------------------------------------------------------------------------
PLAN JOIN (F INDEX (TMP$FACTS_DIMENSION), I INDEX (TMP$ITEMS), V0 INDEX
(TMP$VALUES), V7 INDEX (TMP$VALUES), VG INDEX (TMP$VALUES))

------ Performance info ------
Prepare time = 0ms
Execute time = 31ms
Avg fetch time = 31,00 ms
Current memory = 1 691 251 696
Max memory = 1 787 191 552
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
Fetches from cache = 81 104


select sum( cast(f.FACT_VALUE as numeric(15,2)))
                        from -- TMP$ITEMS i
                            --join TMP$VALUES v0 on
v0.ID_ITEM = i.ID  and v0.ID_ATTRIBUTE = 0 and v0.ATTRIBUTE_VALUE = :OPER
                            TMP$VALUES v0
                            join TMP$VALUES v7 on

                            join TMP$VALUES vG on
vG.ID_ITEM = v0.ID_ITEM and vG.ID_ATTRIBUTE = 13
```

```
                        join TMP$FACTS f on
f.ID_ITEM = v0.ID_ITEM
                    where v0.ID_ATTRIBUTE = 0 and
v0.ATTRIBUTE_VALUE = :OPER
                        and
v7.ATTRIBUTE_VALUE = :S7
                        and
vG.ATTRIBUTE_VALUE = :S13
                        and f.ID_DIMENSION
= :ID_PAY
```

PLAN JOIN (F INDEX (TMP$FACTS_DIMENSION), V0 INDEX (TMP$VALUES), V7 INDEX (TMP$VALUES), VG INDEX (TMP$VALUES))

------ Performance info ------
Prepare time = 0ms
Execute time = 31ms
Avg fetch time = 31,00 ms
Current memory = 1 691 251 792
Max memory = 1 787 191 552
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
Fetches from cache = 61 484

PLAN JOIN (F INDEX (TMP$FACTS_DIMENSION), V0 INDEX (TMP$VALUES), V7 INDEX (TMP$VALUES), VG INDEX (TMP$VALUES))

------ Performance info ------
Prepare time = 0ms
Execute time = 16ms
Avg fetch time = 16,00 ms
Current memory = 1 691 251 792
Max memory = 1 787 191 552
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
Fetches from cache = 61 484

for execute statement (PSQL) (S13:=:S13, S7:=:S7, ID_PAY:=:ID_PAY, OPER:=OPER)

Posted by sim_84 on Thu, 28 Mar 2024 13:42:51 GMT
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Posted by hvlad on Thu, 28 Mar 2024 21:45:59 GMT
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Posted by pastor on Fri, 29 Mar 2024 04:39:41 GMT
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Posted by pastor on Fri, 29 Mar 2024 09:31:34 GMT
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Posted by pastor on Fri, 29 Mar 2024 10:57:15 GMT
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Posted by pastor on Fri, 29 Mar 2024 11:04:21 GMT
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[color=blue]ASQL[/color] = 'select

v7.ATTRIBUTE_VALU
E as CODE,

v8.ATTRIBUTE_VALU
E as NAME,

cast(v13.ATTRIBUTE_
VALUE as numeric(15,2)) as PRICE,
sum(
cast(v14.ATTRIBUTE_VALUE as numeric(15,1))) as AMOUNT--,
from
TMP$VALUES v0
join TMP$VALUES v7 on

join TMP$VALUES v8 on

join TMP$VALUES v10 on

join TMP$VALUES v13 on

```
                    join TMP$VALUES v14 on

                where v0.ID_ATTRIBUTE = 0 and
v0.ATTRIBUTE_VALUE = :OPER
                    and
v7.ATTRIBUTE_VALUE = :S7
                    and
v10.ATTRIBUTE_VALUE = :S10
                group by 1, 2, 3
                order by 1, 2, 3';



OPER = 'SALE'
S7 = '1003'




                            DB =
'NOW';
                            --


                           CNT_A
SQL = CNT_ASQL + 1;
                            for
execute statement (ASQL) (S7:=:S1, S10:=:S10, OPER:=:OPER)









MON$COMPILED_STATEMENTS s
```

DE =
'NOW';

STRIN
GS = '<!-- '"|| :S1|| '" '"|| :S2|| '" '||datediff(millisecond, DB, DE)||' -->'; suspend;

FB50

<!-- "1003" "3083" 130.0 -->

Select Expression
    -> Sort (record length: 2628, key length: 1044)
        -> Aggregate
            -> Refetch
                -> Sort (record length: 1152, key length: 1044)
                    -> Filter
                        -> Hash Join (inner)
                            -> Hash Join (inner)
                                -> Hash Join (inner)
                                    -> Hash Join (inner)
                                        -> Hash Join
(inner)
                                            ->
Filter

->
Record Buffer (record length: 561)

-> Record
Buffer (record length: 561)
->
Filter

-> Record Buffer
(record length: 561)
-> Filter
->
Table "TMP$VALUES" as "V10" Access By ID

-> Record Buffer (record
length: 561)
-> Filter
-> Table
"TMP$VALUES" as "V13" Access By ID
->
Bitmap

-> Record Buffer (record length: 561)
-> Filter
-> Table

"TMP$VALUES" as "V14" Access By ID
-> Bitmap
->
Index "TMP$VALUES_ATT" Range Scan (full match)

------ Performance info ------
Prepare time = 0ms
Execute time = 172ms
Avg fetch time = 172,00 ms
Current memory = 456 180 224
Max memory = 538 854 576
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
Fetches from cache = 255 640

PLAN SORT (SORT (HASH (HASH (HASH (HASH (HASH (V0 INDEX (TMP$VALUES_ATT), V7 INDEX (TMP$VALUES_ATT)), V8 INDEX (TMP$VALUES_ATT)), V10 INDEX (TMP$VALUES_ATT)), V13 INDEX (TMP$VALUES_ATT)), V14 INDEX (TMP$VALUES_ATT))))

---------- ----------
---------- ----------
---------- ----------

FB25

<!-- "1003" "3083" 85 -->

---------- ----------
PLAN SORT (SORT (JOIN (V0 INDEX (TMP$VALUES_AV), V7 INDEX (TMP$VALUES), V8 INDEX (TMP$VALUES), V10 INDEX (TMP$VALUES), V13 INDEX (TMP$VALUES), V14 INDEX (TMP$VALUES))))

------ Performance info ------
Prepare time = 0ms
Execute time = 125ms
Avg fetch time = 125,00 ms
Current memory = 449 807 208

Max memory = 463 328 096
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
Fetches from cache = 285 675

Posted by dimitr on Fri, 29 Mar 2024 11:45:07 GMT
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Posted by sim_84 on Fri, 29 Mar 2024 11:48:41 GMT
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Posted by pastor on Fri, 29 Mar 2024 11:55:38 GMT
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Posted by pastor on Fri, 29 Mar 2024 11:59:31 GMT
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Posted by hvlad on Fri, 29 Mar 2024 12:05:43 GMT
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Posted by pastor on Fri, 29 Mar 2024 12:10:04 GMT
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26 record(s) was(were) inserted into TMP$ATTRIBUTES
26536 record(s) was(were) inserted into TMP$ITEMS
563640 record(s) was(were) inserted into TMP$VALUES

70 record(s) was(were) inserted into TMP$ATTRIBUTE_AGREGATES
2 record(s) was(were) inserted into TMP$DIMENSIONS
26536 record(s) was(were) inserted into TMP$FACTS

Posted by hvlad on Fri, 29 Mar 2024 12:16:10 GMT
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26 record(s) was(were) inserted into TMP$ATTRIBUTES
26536 record(s) was(were) inserted into TMP$ITEMS
563640 record(s) was(were) inserted into TMP$VALUES
70 record(s) was(were) inserted into TMP$ATTRIBUTE_AGREGATES
2 record(s) was(were) inserted into TMP$DIMENSIONS
26536 record(s) was(were) inserted into TMP$FACTS

TMP$VALUES ?

Posted by pastor on Fri, 29 Mar 2024 12:18:45 GMT
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FB25

<!-- "1003" "3083" 85 -->

Execute time = 125ms

Posted by sim_84 on Fri, 29 Mar 2024 12:20:16 GMT
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Posted by SD on Fri, 29 Mar 2024 12:22:31 GMT
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Posted by sim_84 on Fri, 29 Mar 2024 12:25:07 GMT
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TMP$VALUES ?

Posted by pastor on Fri, 29 Mar 2024 12:25:28 GMT
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on commit delete rows

set statistics index TMP$VALUES

------ Performance info ------
Prepare time = 16ms
Execute time = 0ms
Current memory = 454 119 088
Max memory = 538 743 520
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
Fetches from cache = 32

Posted by sim_84 on Fri, 29 Mar 2024 12:29:42 GMT
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Posted by pastor on Fri, 29 Mar 2024 12:30:17 GMT
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```
create global temporary table TMP$VALUES(
ID_ITEM ZLS$FK,
ID_ATTRIBUTE ZLS$FK,
ATTRIBUTE_VALUE ZLS$COMMENT,
constraint TMP$VALUES
  primary key(ID_ITEM, ID_ATTRIBUTE),
constraint TMP$VALUES_ITEM
  foreign key (ID_ITEM)
  references TMP$ITEMS (ID)
  on delete CASCADE,
constraint TMP$VALUES_ATT
  foreign key (ID_ATTRIBUTE)
  references TMP$ATTRIBUTES (ID)
  on delete CASCADE
)
on commit delete rows
^
commit^
```

```
create index TMP$VALUES_AV
on TMP$VALUES( ID_ATTRIBUTE, ATTRIBUTE_VALUE)
^
```

Posted by pastor on Fri, 29 Mar 2024 12:33:55 GMT
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```
TMP$VALUES ?
 DB = 'NOW';
 execute statement('set statistics index TMP$VALUES');
 DE = 'NOW';
 STRINGS = '<!-- set statistics index TMP$VALUES '||datediff( millisecond, DB, DE)||' -->';
suspend;



('<!-- sales facts [26450] 181.0 -->');
('<!-- returns facts [86] 164.0 -->');
('<!-- set statistics index TMP$VALUES 0.0 -->');
('<!-- "1003 135.0ms -->');
```

Posted by hvlad on Fri, 29 Mar 2024 12:44:49 GMT
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TMP$VALUES ?

pastorset statistics index TMP$VALUES

```
------ Performance info ------
Prepare time = 16ms
Execute time = 0ms
Current memory = 454 119 088
Max memory = 538 743 520
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 0
```

Posted by dimitr on Fri, 29 Mar 2024 12:44:50 GMT
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Posted by pastor on Fri, 29 Mar 2024 12:50:45 GMT
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```
select

                    v7.ATTRIBUTE_VALU
E as CODE,

                    v8.ATTRIBUTE_VALU
E as NAME,

                    cast(v13.ATTRIBUTE_
VALUE as numeric(15,2)) as PRICE,
                     sum(
cast(v14.ATTRIBUTE_VALUE as numeric(15,1))) as AMOUNT--,
                from
                    TMP$VALUES v0
                    join TMP$VALUES v7 on

                    join TMP$VALUES v8 on

                    join TMP$VALUES v10 on

                    join TMP$VALUES v13 on

                    join TMP$VALUES v14 on
```

```
                    where v0.ID_ATTRIBUTE = 0 and
v0.ATTRIBUTE_VALUE = :OPER
                        and
v7.ATTRIBUTE_VALUE = :S7
                        and
v10.ATTRIBUTE_VALUE = :S10
                    group by 1, 2, 3
PLAN JOIN (V0 INDEX (TMP$VALUES_AV), V7 INDEX (TMP$VALUES), V8 INDEX
(TMP$VALUES), V10 INDEX (TMP$VALUES), V13 INDEX (TMP$VALUES), V14 INDEX
(TMP$VALUES))
                    order by 1, 2, 3
```

```
Dynamic SQL Error.
SQL error code = -104.
Token unknown - line 22, column 30.
group.
<Missing arg #1 - possibly status vector overflow>.
---------------------------------------------------------------------------------------
SQLCODE: -104
SQLSTATE: 42000
GDSCODE: 335544569
```

Posted by sim_84 on Fri, 29 Mar 2024 12:54:19 GMT
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Posted by pastor on Fri, 29 Mar 2024 13:00:08 GMT
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File Attachments
1) TST.7z, downloaded 866 times
2) TST50.7z, downloaded 881 times
3) sales_by_group.sql, downloaded 943 times
4) select.sql, downloaded 932 times

Posted by hvlad on Fri, 29 Mar 2024 14:33:24 GMT
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Posted by pastor on Fri, 29 Mar 2024 16:22:25 GMT
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PPS

------ Performance info ------
Prepare time = 0ms
Execute time = 49s 750ms
Avg fetch time = 49,95 ms
Current memory = 777 161 200
Max memory = 811 366 512
Memory buffers = 99 999
Reads from disk to cache = 0
Writes from cache to disk = 6 416
Fetches from cache = 125 050 775

Posted by hvlad on Fri, 29 Mar 2024 20:06:45 GMT
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pastor------ Performance info ------
Prepare time = 0ms
Execute time = 49s 750ms

Posted by SD on Fri, 29 Mar 2024 22:42:10 GMT
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Posted by pastor on Sat, 30 Mar 2024 07:20:17 GMT
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Posted by hvlad on Sat, 30 Mar 2024 08:09:58 GMT
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15:16

TMP$VALUES ?

Posted by SD on Sat, 30 Mar 2024 12:47:11 GMT
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Posted by pastor on Sat, 30 Mar 2024 13:42:15 GMT
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Prepare time = 0ms
Execute time = 49s 750ms

Posted by hvlad on Sat, 30 Mar 2024 14:07:24 GMT
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Posted by dimitr on Wed, 03 Apr 2024 10:38:40 GMT
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15:44

Posted by pastor on Wed, 03 Apr 2024 12:10:52 GMT
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Posted by pastor on Thu, 04 Apr 2024 07:16:35 GMT
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