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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

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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)

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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'
```

```
'NOW';
      DB =
      --
```

```
      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)



"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

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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

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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 ?

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Posted by [pastor](#) on Fri, 29 Mar 2024 12:18:45 GMT  
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FB25

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

Execute time = 125ms

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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 ?

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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

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Posted by [sim\\_84](#) on Fri, 29 Mar 2024 12:29:42 GMT  
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TMP\$VALUES

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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)  
^
```

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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 -->');
```

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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
```

---

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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

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- 1) [TST.7z](#), downloaded 667 times
  - 2) [TST50.7z](#), downloaded 697 times
  - 3) [sales\\_by\\_group.sql](#), downloaded 696 times
  - 4) [select.sql](#), downloaded 674 times
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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

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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

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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

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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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