

/\* Formatted on 28/9/2020 15:39:02 (QP5 v5.360) \*/

SELECT top.FRAME\_ID,

frame9.DESCRIPTION AS FRAME\_DSC,

top.PART\_NO,

top.DESCRIPTION AS TOP\_PART\_DESC,

specdata.SECTION\_ID,

section.DESCRIPTION AS SECTION\_DSC,

specdata.SUB\_SECTION\_ID,

sub\_section.DESCRIPTION AS SUB\_SECTION\_DSC,

specdata.PROPERTY\_GROUP,

propgrp.DESCRIPTION AS PROP\_GRP\_DSC,

specdata.PROPERTY,

property.DESCRIPTION AS PROP\_DSC,

specdata.VALUE\_S AS PROP\_VALUE,

specdata.SEQUENCE\_NO AS PROP\_SEQ\_NO,

header.HEADER\_ID,

header.DESCRIPTION AS HEADER\_DSC,

uom.DESCRIPTION AS UOM,

CASE

WHEN EXISTS

(SELECT 1

FROM specdata cr\_par

WHERE header\_id = 700503

AND cr\_par.part\_no = specdata.part\_no

AND cr\_par.revision = specdata.revision

AND cr\_par.section\_id = specdata.section\_id

AND cr\_par.sub\_section\_id =

specdata.sub\_section\_id

AND cr\_par.property\_group =

specdata.property\_group

AND cr\_par.property = specdata.property

AND cr\_par.value\_s <> 'N')

THEN

1

ELSE

0

END AS is\_crit\_param

FROM specification\_header top

INNER JOIN frame\_header frame9 ON (top.FRAME\_ID = frame9.FRAME\_NO)

INNER JOIN status stat ON (top.STATUS = stat.STATUS AND stat.STATUS\_TYPE = 'CURRENT')

INNER JOIN specdata ON ( specdata.PART\_NO = top.PART\_NO

AND specdata.REVISION = top.REVISION)

INNER JOIN section ON (specdata.SECTION\_ID = section.SECTION\_ID)

INNER JOIN sub\_section ON (specdata.SUB\_SECTION\_ID = sub\_section.SUB\_SECTION\_ID)

INNER JOIN property\_group propgrp ON (specdata.PROPERTY\_GROUP = propgrp.PROPERTY\_GROUP)

INNER JOIN property ON (specdata.PROPERTY = property.PROPERTY)

INNER JOIN header ON (specdata.HEADER\_ID = header.HEADER\_ID)

LEFT OUTER JOIN uom ON (specdata.UOM\_ID = uom.UOM\_ID)

WHERE 1 = 1

AND top.FRAME\_ID = 'A\_PCR'

AND specdata.SECTION\_ID IN ('700835')

AND section.DESCRIPTION <> 'Bill of Materials'

AND value\_s IS NOT NULL

AND specdata.HEADER\_ID <> 700503

AND EXISTS

(SELECT 1

FROM part\_plant

WHERE part\_plant.PART\_NO = top.PART\_NO

AND PLANT = 'ENS')

ORDER BY top.FRAME\_ID,

top.PART\_NO,

specdata.SECTION\_ID,

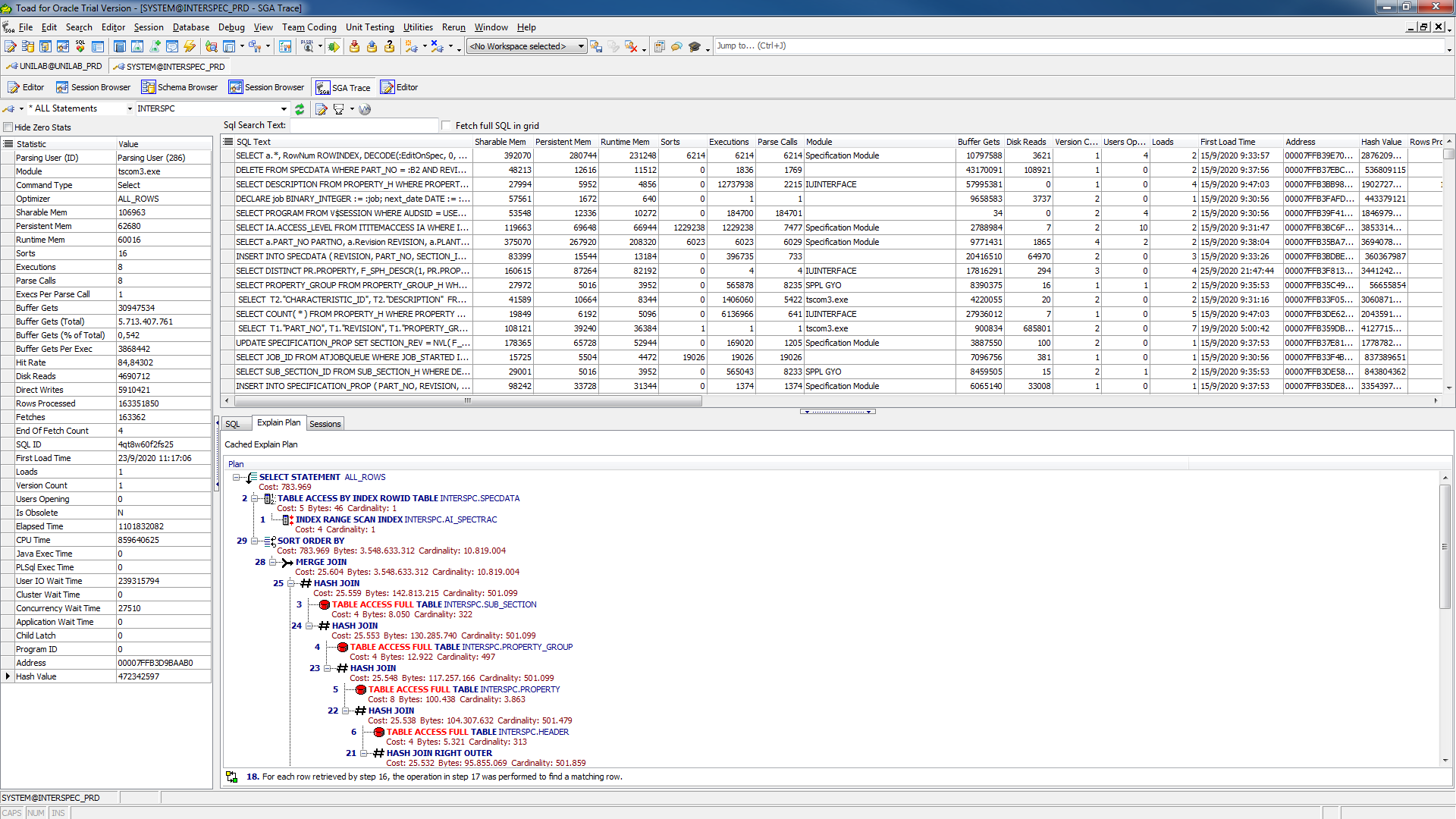
specdata.SUB\_SECTION\_ID,

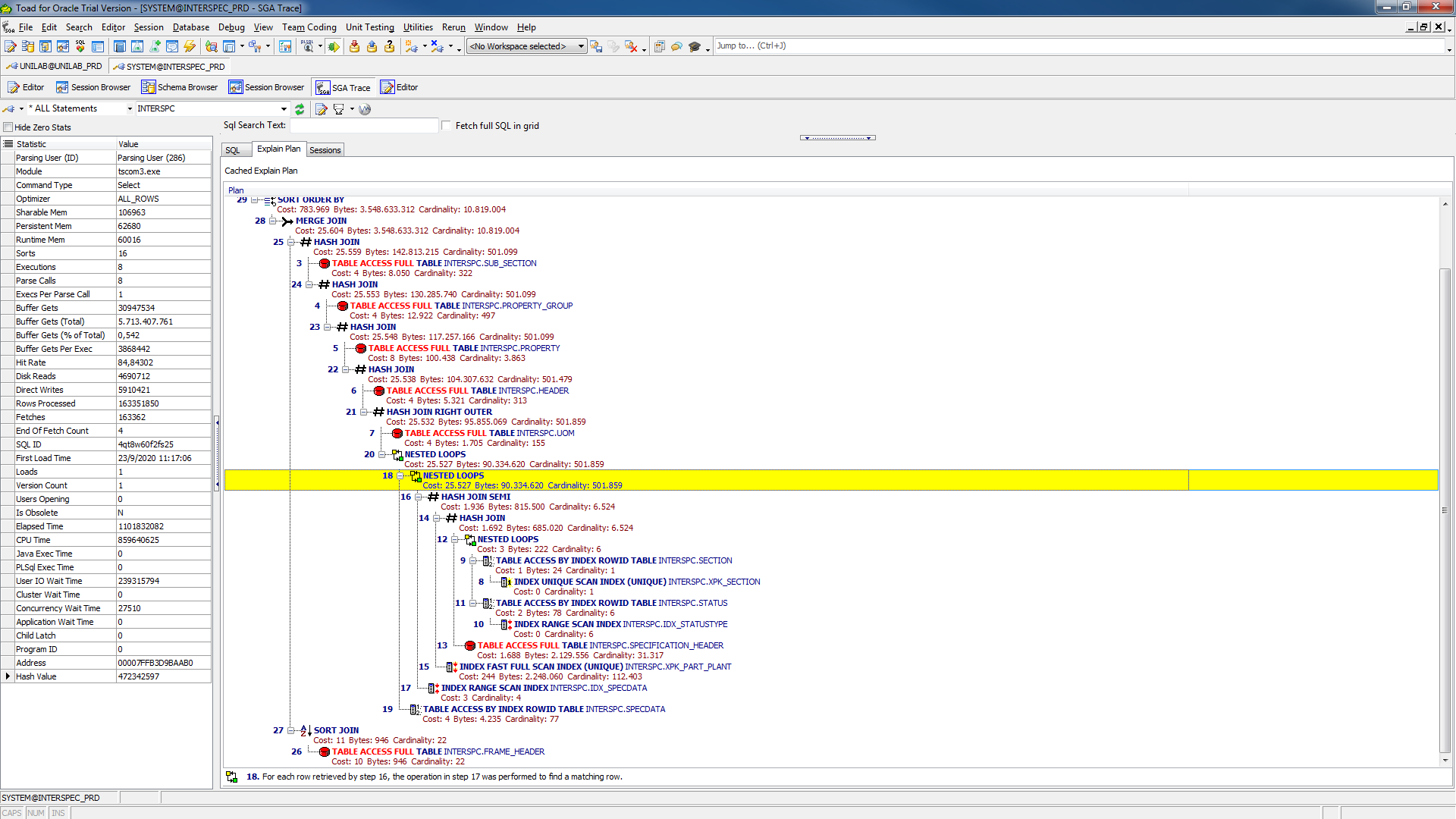
specdata.PROPERTY\_GROUP,

specdata.PROPERTY,

specdata.SEQUENCE\_NO

;





/\* Formatted on 29/9/2020 10:28:59 (QP5 v5.360) \*/

SELECT T1."PART\_NO",

T1."REVISION",

T3."SECTION\_ID",

T3."SUB\_SECTION\_ID",

T4."TYPE",

T3."PROPERTY\_GROUP",

T3."PROPERTY",

T5."FIELD\_ID",

MAX (T1."PART\_NO")

FROM (

(((INTERSPC.SPECIFICATION\_HEADER T1

INNER JOIN

INTERSPC.STATUS T2

ON (T2."STATUS" = T1."STATUS"))

LEFT OUTER JOIN

INTERSPC.SPECIFICATION\_PROP T3

ON T3."PART\_NO" = T1."PART\_NO" AND T3."REVISION" = T1."REVISION")

INNER JOIN

INTERSPC.SPECIFICATION\_SECTION T4

ON (T4."PART\_NO" = T1."PART\_NO")

AND (T4."REVISION" = T1."REVISION")

AND (T4."SECTION\_ID" = T3."SECTION\_ID")

AND (T4."SECTION\_REV" = T3."SECTION\_REV")

AND (T4."SUB\_SECTION\_ID" = T3."SUB\_SECTION\_ID")

AND (T4."SUB\_SECTION\_REV" = T3."SUB\_SECTION\_REV")

AND ( ((T4."TYPE" = 1) AND (T4."REF\_ID" = T3."PROPERTY\_GROUP"))

OR ((T4."TYPE" = 4) AND (T4."REF\_ID" = T3."PROPERTY"))))

INNER JOIN

INTERSPC.PROPERTY\_LAYOUT T5

ON (T5."LAYOUT\_ID" = T4."DISPLAY\_FORMAT")

AND (T5."REVISION" = T4."DISPLAY\_FORMAT\_REV"))

WHERE (T1."PART\_NO" = 'Mask\_PCR\_INT00003')

AND (T2."STATUS\_TYPE" = 'CURRENT')

AND ( ((T5."FIELD\_ID" = 1) AND (T3."NUM\_1" IS NOT NULL))

OR ((T5."FIELD\_ID" = 2) AND (T3."NUM\_2" IS NOT NULL))

OR ((T5."FIELD\_ID" = 3) AND (T3."NUM\_3" IS NOT NULL))

OR ((T5."FIELD\_ID" = 4) AND (T3."NUM\_4" IS NOT NULL))

OR ((T5."FIELD\_ID" = 5) AND (T3."NUM\_5" IS NOT NULL))

OR ((T5."FIELD\_ID" = 6) AND (T3."NUM\_6" IS NOT NULL))

OR ((T5."FIELD\_ID" = 7) AND (T3."NUM\_7" IS NOT NULL))

OR ((T5."FIELD\_ID" = 8) AND (T3."NUM\_8" IS NOT NULL))

OR ((T5."FIELD\_ID" = 9) AND (T3."NUM\_9" IS NOT NULL))

OR ((T5."FIELD\_ID" = 10) AND (T3."NUM\_10" IS NOT NULL))

OR ((T5."FIELD\_ID" = 11) AND (T3."CHAR\_1" IS NOT NULL))

OR ((T5."FIELD\_ID" = 12) AND (T3."CHAR\_2" IS NOT NULL))

OR ((T5."FIELD\_ID" = 13) AND (T3."CHAR\_3" IS NOT NULL))

OR ((T5."FIELD\_ID" = 14) AND (T3."CHAR\_4" IS NOT NULL))

OR ((T5."FIELD\_ID" = 15) AND (T3."CHAR\_5" IS NOT NULL))

OR ((T5."FIELD\_ID" = 16) AND (T3."CHAR\_6" IS NOT NULL))

OR ((T5."FIELD\_ID" = 17) AND (T3."BOOLEAN\_1" <> 'N'))

OR ((T5."FIELD\_ID" = 18) AND (T3."BOOLEAN\_2" <> 'N'))

OR ((T5."FIELD\_ID" = 19) AND (T3."BOOLEAN\_3" <> 'N'))

OR ((T5."FIELD\_ID" = 20) AND (T3."BOOLEAN\_4" <> 'N'))

OR ((T5."FIELD\_ID" = 21) AND (T3."DATE\_1" IS NOT NULL))

OR ((T5."FIELD\_ID" = 22) AND (T3."DATE\_2" IS NOT NULL))

OR ((T5."FIELD\_ID" = 23) AND (T3."UOM\_ID" IS NOT NULL))

OR ((T5."FIELD\_ID" = 25) AND (T3."TEST\_METHOD" IS NOT NULL))

OR ((T5."FIELD\_ID" = 26) AND (T3."CHARACTERISTIC" IS NOT NULL))

OR ((T5."FIELD\_ID" = 30) AND (T3."CH\_2" IS NOT NULL))

OR ((T5."FIELD\_ID" = 31) AND (T3."CH\_3" IS NOT NULL)))

GROUP BY T1."PART\_NO",

T1."REVISION",

T3."SECTION\_ID",

T3."SUB\_SECTION\_ID",

T4."TYPE",

T3."PROPERTY\_GROUP",

T3."PROPERTY",

T5."FIELD\_ID"

ORDER BY T1."PART\_NO",

T1."REVISION",

T3."SECTION\_ID",

T3."SUB\_SECTION\_ID",

T4."TYPE",

T3."PROPERTY\_GROUP",

T3."PROPERTY",

T5."FIELD\_ID"

Dit is zeer vreemde constructie !! Waarom nog een MAX(PART-NO) + GROUP-BY indien PART-NO altijd GELIJK is aan MAX(part-no) en je er met een specifieke PART-NO mee naar binnen gaat !!!  
EN: OOK HIER WEER EEN FULL-TABLES-SCAN OP SPECDATA-SERVER !!!!!!  
(we moeten echt een of meerdere indexen toevoegen….)

Conclusie:

1)De eerste query uit dit document duurt ongeveer 5 minuten met flink wat RESOURCE-verbruik !!!

2)Algemeen SAP: Geen gebruik van BIND-variabelen !!!. Levert iedere keer nieuwe PARSE op !!! En dus onnodige belasting van de databases.

3)Vreemde structuur in queries soms !! Vraag me af of dat zo nodig is?

4)Er ontbreekt INDEX op SPECIFICATION-HEADER.FRAME-ID

5)Er wordt relatie gelegd met FRAME-HEADER alleen op basis van FRAME-NO en niet incl. REVISION/OWNER (=PK)

6)Index op SPECDATA frame ontbreekt.