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1. SQL statement q3_followupgrants_query.sql

```
-- The purpose of query
                            - to review existing grantees privileges
-- against grantees privileges allowed.
   The review report generated with review status indicating if existing granted
-- privilegious:
         is OK (i.e. meet GRANTEES_PRIVILEGES_ALLOWED list)
         or NOTOK (i.e. does not meet {\it GRANTEES\_PRIVILEGES\_ALLOWED}\ list)
-- The review report has format like csv and can be imported into MS EXEL
WITH
TABLES TO CHECK
(TSNAME, TABNAME, DBNAME, CREATOR) --, LABEL)
AS (SELECT TSNAME, NAME, DBNAME, CREATOR --, LABEL
      FROM SYSTABLES
         WHERE TYPE = "T"
           AND DBNAME LIKE "%TESTDB%"),
GRANTEES_PRIVILEGES_ALLOWED -- the part should be updated with needed data on grants allowed
(CHECK_GROUPS, ALTERAUTH, DELETEAUTH, INDEXAUTH, INSERTAUTH, SELECTAUTH, UPDATEAUTH)
AS (SELECT "CHECK_GROUP_1", "G", "G", "G", "G", "G"
    FROM SYSDUMMY1 UNION
    SELECT "CHECK_GROUP_2", " ", " ", " ", " ", " ", "Y",
    FROM SYSDUMMY1 UNION
SELECT "CHECK_GROUP_3", " ", "Y ", " ", "Y", "Y", "Y"
    FROM SYSDUMMY1 UNION
    SELECT "CHECK_GROUP_4", "G", "G", "G", "G", "G", "G"
    FROM SYSDUMMY1 UNION
    SELECT "CHECK_GROUP_5", " ", " ", " ", " ", " ", " ", " "
    FROM SYSDUMMY1 UNION
    SELECT "CHECK_GROUP_6", " ", "Y ", " ", "Y", "Y", "Y"
    FROM SYSDUMMY1 UNION
    SELECT "CHECK_GROUP_7", "G", "G", "G", "G", "G", "G", "G"
    FROM SYSDUMMY1 UNION
    SELECT "CHECK_GROUP_8", " ", "Y ", " ", "Y", "Y", "Y"
    FROM SYSDUMMY1 UNION
    FROM SYSDUMMY1),
GRANTEES\_PRIVILEGES\_EXIST
(GRANTEE,TTNAME,ALTERAUTH, DELETEAUTH, INDEXAUTH, INSERTAUTH, SELECTAUTH, UPDATEAUTH)
AS (SELECT GRANTEE, TTNAME, MAX(ALTERAUTH), MAX(DELETEAUTH), MAX(INDEXAUTH),
            MAX(INSERTAUTH), MAX(SELECTAUTH), MAX(UPDATEAUTH)
    FROM SYSTABAUTH
      WHERE GRANTEE IN
             (SELECT CHECK GROUPS FROM GRANTEES PRIVILEGES ALLOWED)
GROUP BY GRANTEE, TTNAME)
-- header of the report
SELECT 'GRANTOR',' GRANTEE','
                      GRANTEE',' TTNAME', ' ALTERAUTH', ' DELETEAUTH', ' INDEXAUTH',' INSERTAUTH',
SELECTAUTH'
         ' UPDATEAUTH',' Review status'AS OK_STATUS,' Review TIMESTAMP' AS QUERY_TS FROM SYSDUMMY1
  UNTON
-- content data of the report start
SELECT SA.GRANTOR, SA.GRANTEE, SA.TTNAME ,SA.ALTERAUTH, SA.DELETEAUTH, SA.INDEXAUTH ,SA.INSERTAUTH,
SA.SELECTAUTH, SA.UPDATEAUTH , "not_OK" AS OK_STATUS, strftime( datetime(current_timestamp, 'localtime'))
AS QUERY TS
  FROM SYSTABAUTH SA, TABLES_TO_CHECK TTC, GRANTEES_PRIVILEGES_ALLOWED GPTC, GRANTEES_PRIVILEGES_EXIST GF
    WHERE
           SA.TTNAME = TTC.TABNAME
      AND NOT SA.GRANTEETYPE = "P" -- excluded applications PLAN / PACKAGES
      AND SA.GRANTEE = GPTC.CHECK_GROUPS
       AND GF.TTNAME = TTC.TABNAME
       AND GF.GRANTEE = GPTC.CHECK_GROUPS
       AND NOT (GF.ALTERAUTH, GF.DELETEAUTH, GF.INDEXAUTH, GF.INSERTAUTH, GF.SELECTAUTH, GF.UPDATEAUTH) =
                          (GPTC.ALTERAUTH, GPTC.DELETEAUTH, GPTC.INDEXAUTH, GPTC.INSERTAUTH, GPTC.SELECTAUTH,
GPTC.UPDATEAUTH)
UNTON
SELECT SA.GRANTOR, SA.GRANTEE, SA.TTNAME, SA.ALTERAUTH, SA.DELETEAUTH, SA.INDEXAUTH, SA.INSERTAUTH,
  SA.SELECTAUTH, SA.UPDATEAUTH,
                                    "OK" AS OK_STATUS,
                                                           strftime( datetime(current_timestamp,
  FROM SYSTABAUTH SA, TABLES_TO_CHECK TTC, GRANTEES_PRIVILEGES_ALLOWED GPTC, GRANTEES_PRIVILEGES_EXIST GF
    WHERE
      SA.TTNAME = TTC.TABNAME
      AND NOT SA.GRANTEETYPE = "P"
AND SA.GRANTEE = GPTC.CHECK_GROUPS
       AND GF.TTNAME = TTC.TABNAME
       AND GF.GRANTEE = GPTC.CHECK_GROUPS
      AND (GF.ALTERAUTH, GF.DELETEAUTH, GF.INDEXAUTH, GF.INSERTAUTH, GF.SELECTAUTH, GF.UPDATEAUTH)
=(GPTC.ALTERAUTH, GPTC.DELETEAUTH, GPTC.INDEXAUTH, GPTC.INSERTAUTH, GPTC.SELECTAUTH,
GPTC.UPDATEAUTH)
ORDER BY 10,2,3
 - content data of the report end
```



2. Explain query plan generated by <EXPLAINE QUERY PLAN sql statement>

2.1. Plain report

Step id	
2	
3 6 4 0 MERGE (UNION) 4 8 6 0 LEFT 5 11 8 216 SCAN SYSDUMMY1 6 27 8 0 USE TEMP B-TREE FOR ORDER BY 7 46 6 0 RIGHT 8 49 46 0 MATERIALIZE GRANTEES_PRIVILEGES_ALLOWED 9 52 49 0 COMPOUND QUERY 10 53 52 0 LEFT-MOST SUBQUERY 11 55 53 216 SCAN SYSDUMMY1 12 67 52 0 UNION USING TEMP B-TREE 13 69 67 216 SCAN SYSDUMMY1 14 81 52 0 UNION USING TEMP B-TREE 15 83 81 216 SCAN SYSDUMMY1 16 95 52 0 UNION USING TEMP B-TREE 17 97 95 216 SCAN SYSDUMMY1 18 109 52 0 UNION USING TEMP B-TREE 19 111 109 216 SCAN SYSDUMMY1 20 123 52 0 UNION USING TEMP B-TREE 21 125 123 216 SCAN SYSDUMMY1 22 137 52 0 UNION USING TEMP B-TREE 23 139 137 216 SCAN SYSDUMMY1 24 151 52 0 UNION USING TEMP B-TREE 25 153 151 216 SCAN SYSDUMMY1	
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24 151 52 0 UNION USING TEMP B-TREE 25 153 151 216 SCAN SYSDUMMY1	
25 153 151 216 SCAN SYSDUMMY1	
26 165 52 0 UNION USING TEMP B-TREE	
27 167 165 216 SCAN SYSDUMMY1	
28 195 46 0 MATERIALIZE GRANTEES_PRIVILEGES_EXIST	
29 202 195 216 SCAN SYSTABAUTH	
30 207 195 0 LIST SUBQUERY 11	
31 211 207 216 SCAN GRANTEES_PRIVILEGES_ALLOWED	
32 217 207 0 CREATE BLOOM FILTER	
33 225 195 0 USE TEMP B-TREE FOR GROUP BY	
34 304 46 248 SCAN GPTC	
35 325 46 53 SEARCH SA USING AUTOMATIC PARTIAL COVERING INDEX (GRANTEE=?)	
36 348 46 53 SEARCH SYSTABLES USING AUTOMATIC PARTIAL COVERING INDEX (TYPE=? AND N	VAME=?)
37 373 46 47 SEARCH GF USING AUTOMATIC COVERING INDEX (TTNAME=? AND GRANTEE=?)	
38 433 46 0 USE TEMP B-TREE FOR ORDER BY	
39 488 2 0 RIGHT	
40 496 488 216 SCAN SYSTABLES	
41 522 488 53 SEARCH SA USING AUTOMATIC PARTIAL COVERING INDEX (TTNAME=?)	
42 543 488 53 SEARCH GF USING AUTOMATIC COVERING INDEX (TTNAME=?)	
43 549 488 0 BLOOM FILTER ON GPTC (ALTERAUTH=? AND DELETEAUTH=? AND INDEXAUTH=? AND SELECTAUTH=? AND UPDATEAUTH=?)	ID INSERTAUTH=? AND
44 564 488 53 SEARCH GPTC USING AUTOMATIC COVERING INDEX (ALTERAUTH=? AND DELETEAUT AND INSERTAUTH=? AND SELECTAUTH=? AND UPDATEAUTH=?)	TH=? AND INDEXAUTH=?



step	id	pare nt	unu sed	detail
45	608	488	0	USE TEMP B-TREE FOR ORDER BY



2.2. GRAPH report

```
EXPLAINE QUERY PLAN
step 1.... | __MERGE (UNION)...node(id: 2)
step 2....
                --LEFT...node(id: 4)
step 3....
                  |__MERGE (UNION)...node(id: 6)
step 4....
                      --LEFT...node(id: 8)
step 5....
                         --SCAN SYSDUMMY1...node(id: 11, notused: 216)
                         USE TEMP B-TREE FOR ORDER BY ... node(id: 27)
step 6....
                        RIGHT...node(id: 46)
step 7....
step 8....
                         --MATERIALIZE GRANTEES_PRIVILEGES_ALLOWED...node(id: 49)
                           |__COMPOUND QUERY...node(id: 52)
step 9....
step 10...
                               --LEFT-MOST SUBQUERY...node(id: 53)
                                 |__SCAN SYSDUMMY1...node(id: 55, notused: 216)
step 11...
                               --UNION USING TEMP B-TREE...node(id: 67)
step 12...
step 13...
                                 __SCAN SYSDUMMY1...node(id: 69, notused: 216)
                               --UNION USING TEMP B-TREE...node(id: 81)
step 14...
step 15...
                                 | SCAN SYSDUMMY1...node(id: 83, notused: 216)
                               --UNION USING TEMP B-TREE...node(id: 95)
step 16...
step 17...
                                 __SCAN SYSDUMMY1...node(id: 97, notused: 216)
step 18...
                               --UNION USING TEMP B-TREE...node(id: 109)
step 19...
                                 __SCAN SYSDUMMY1...node(id: 111, notused: 216)
step 20...
                               --UNION USING TEMP B-TREE...node(id: 123)
step 21...
                                 |__SCAN SYSDUMMY1...node(id: 125, notused: 216)
step 22...
                               --UNION USING TEMP B-TREE...node(id: 137)
                                 |__SCAN SYSDUMMY1...node(id: 139, notused: 216)
step 23...
step 24...
                               --UNION USING TEMP B-TREE...node(id: 151)
                                 __SCAN SYSDUMMY1...node(id: 153, notused: 216)
step 25...
                                 _UNION USING TEMP B-TREE...node(id: 165)
step 26...
                                  __SCAN SYSDUMMY1...node(id: 167, notused: 216)
step 27...
                          -MATERIALIZE GRANTEES_PRIVILEGES_EXIST...node(id: 195)
step 28...
step 29...
                            --SCAN SYSTABAUTH...node(id: 202, notused: 216)
step 30...
                            --LIST SUBQUERY 11...node(id: 207)
                               --SCAN GRANTEES_PRIVILEGES_ALLOWED...node(id: 211, notused: 216)
step 31...
                                 _CREATE BLOOM FILTER...node(id: 217)
step 32...
step 33...
                              _USE TEMP B-TREE FOR GROUP BY...node(id: 225)
                          --SCAN GPTC...node(id: 304, notused: 248)
step 34...
step 35...
                         --SEARCH SA USING AUTOMATIC PARTIAL COVERING INDEX (GRANTEE=?)...node(id: 325, notused: 53)
step 36...
                         --SEARCH SYSTABLES USING AUTOMATIC PARTIAL COVERING INDEX (TYPE=? AND NAME=?)...node(id: 348, notused: 53)
                         --SEARCH GF USING AUTOMATIC COVERING INDEX (TTNAME=? AND GRANTEE=?)...node(id: 373, notused: 47)
step 37...
                          _USE TEMP B-TREE FOR ORDER BY...node(id: 433)
step 38...
step 39...
                  RIGHT...node(id: 488)
step 40...
                   --SCAN SYSTABLES...node(id: 496, notused: 216)
                   --SEARCH SA USING AUTOMATIC PARTIAL COVERING INDEX (TTNAME=?)...node(id: 522, notused: 53)
step 41...
step 42...
                   --SEARCH GF USING AUTOMATIC COVERING INDEX (TTNAME=?)...node(id: 543, notused: 53)
step 43...
                   --BLOOM FILTER ON GPTC (ALTERAUTH=? AND DELETEAUTH=? AND INDEXAUTH=? AND INSERTAUTH=? AND SELECTAUTH=? AND UPDATEAUTH=?)...node(id: 549)
step 44...
                       |--SEARCH GPTC USING AUTOMATIC COVERING INDEX (ALTERAUTH=? AND DELETEAUTH=? AND INDEXAUTH=? AND INSERTAUTH=? AND SELECTAUTH=? AND
UPDATEAUTH=?)...node(id: 564, notused: 53)
step 45...
                  __USE TEMP B-TREE FOR ORDER BY...node(id: 608)
```