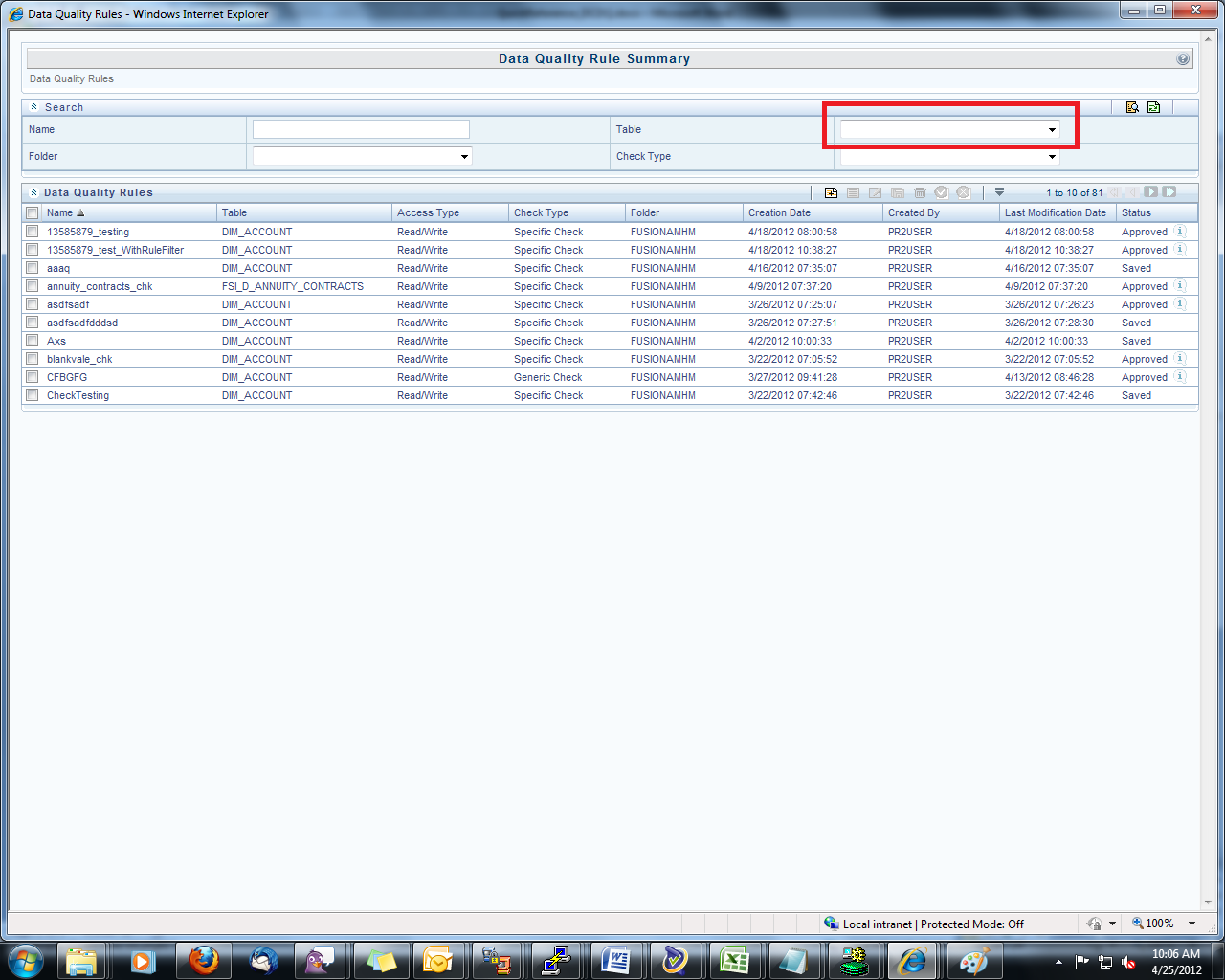
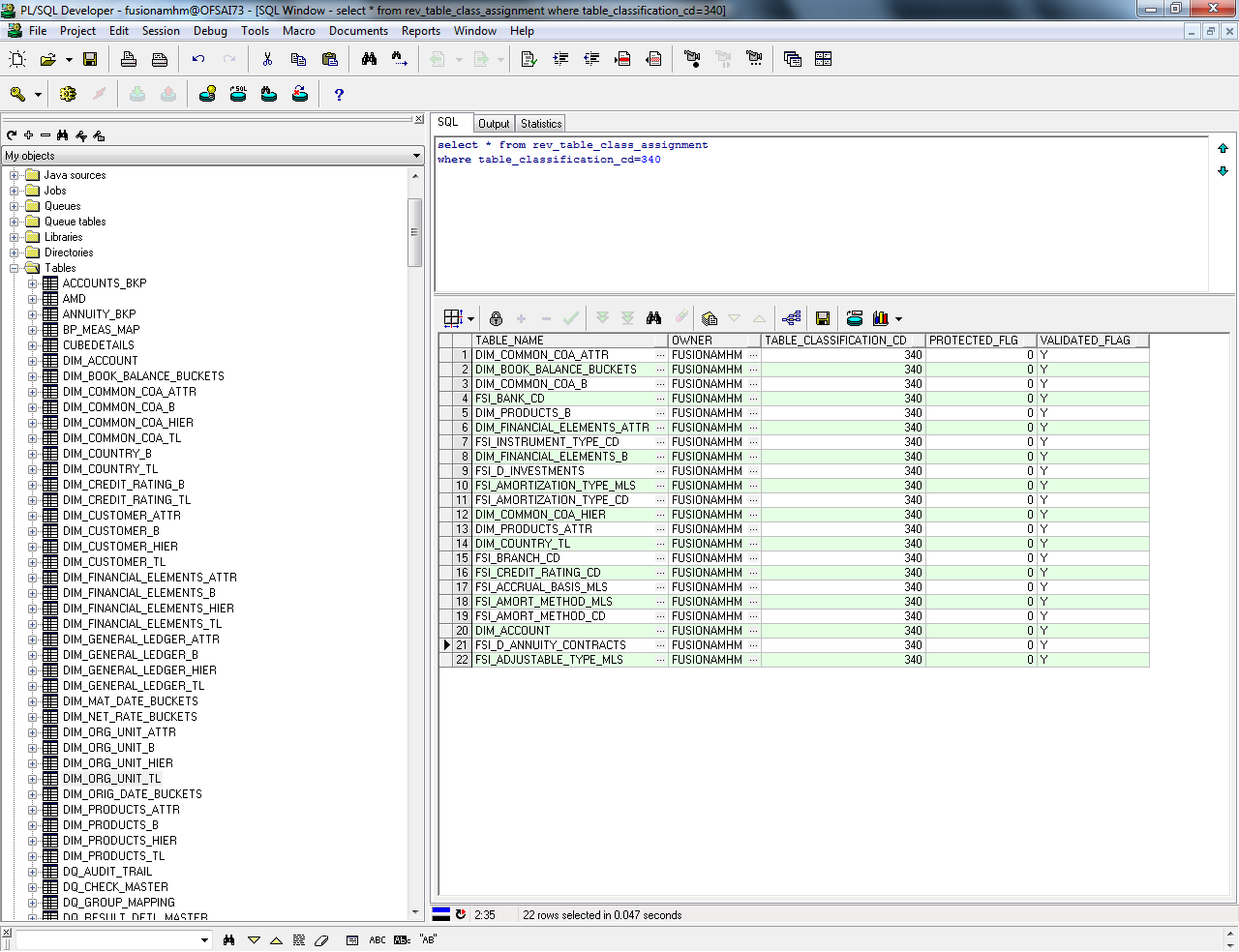
DC/DQ Frame work

**Initial Setup:**

1. To have a entry in the "Table " dropdown , we would need to insert table name in "rev\_table\_class\_assignment" table with table\_classification\_cd as 340

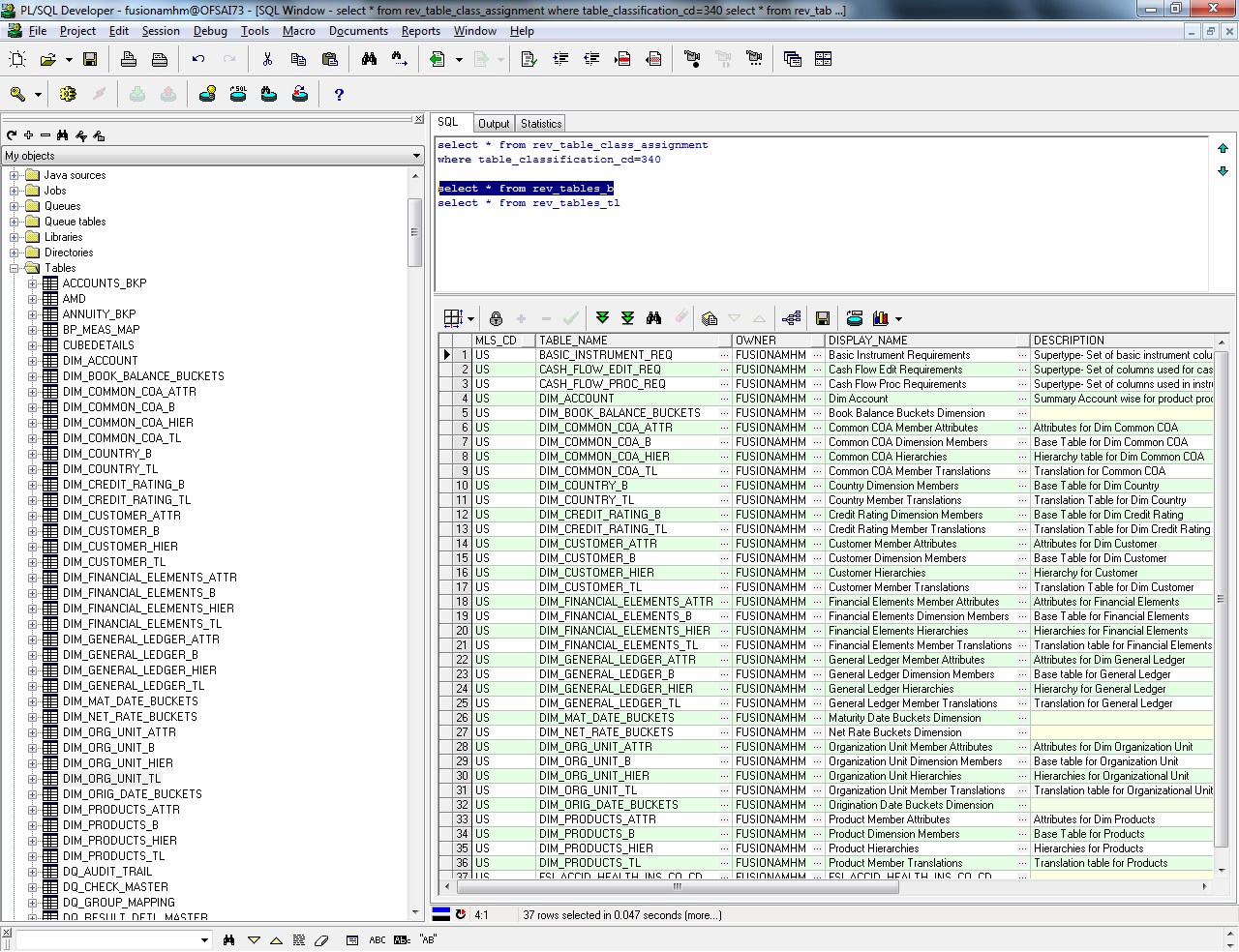


Database :

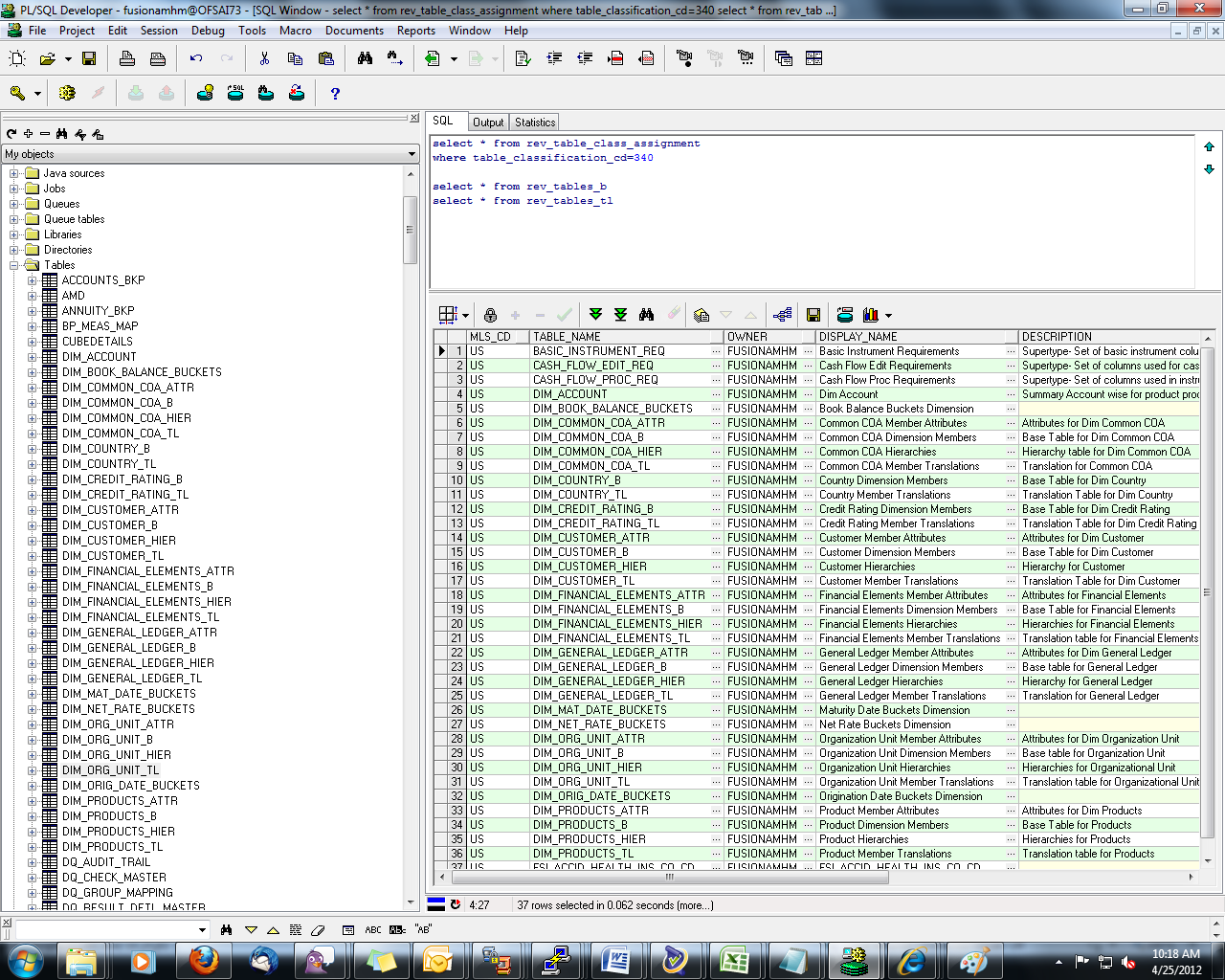


In case of any Referential integrity issue, please make a entry of the table in these Tables as well.

**select** \* **from** rev\_tables\_b

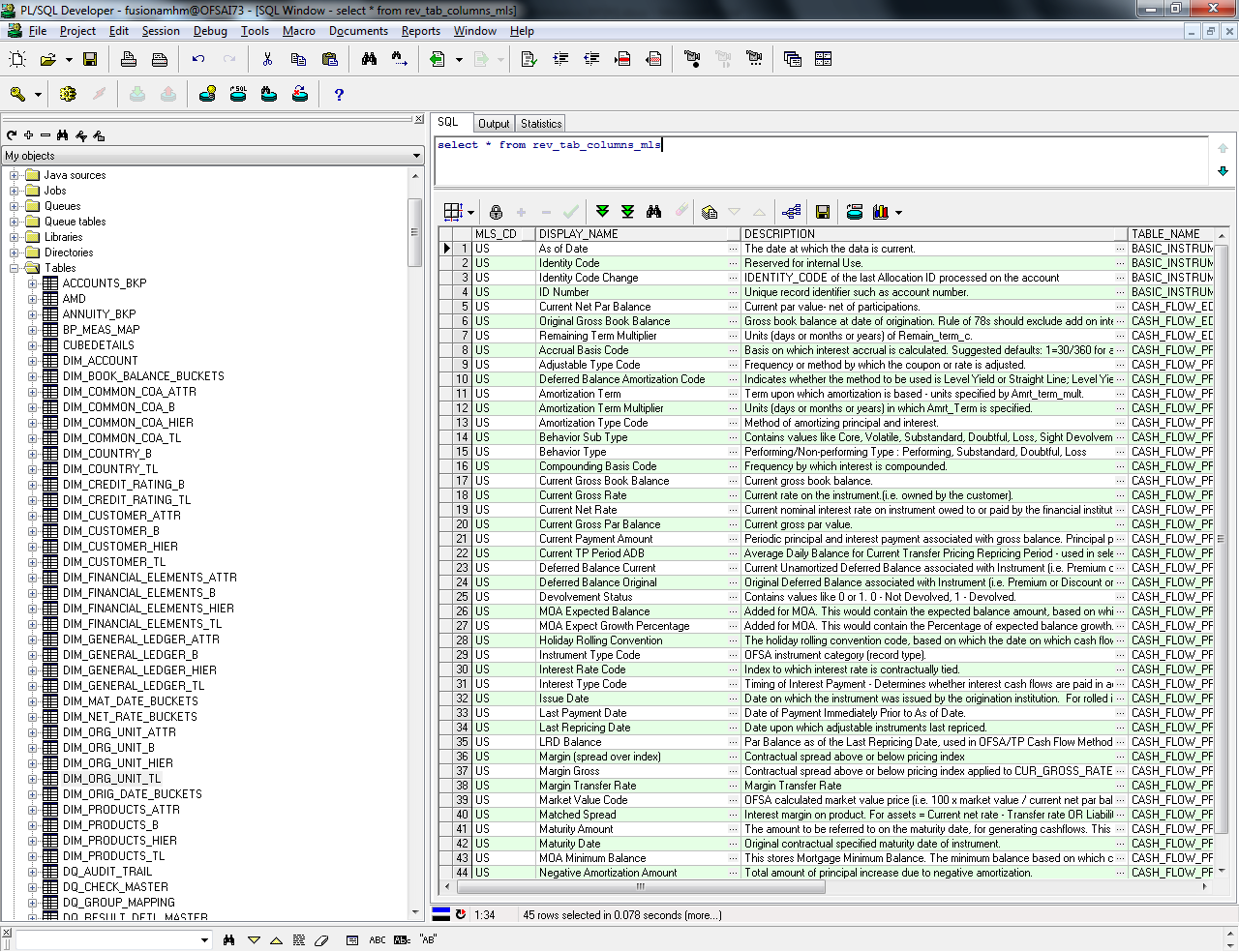


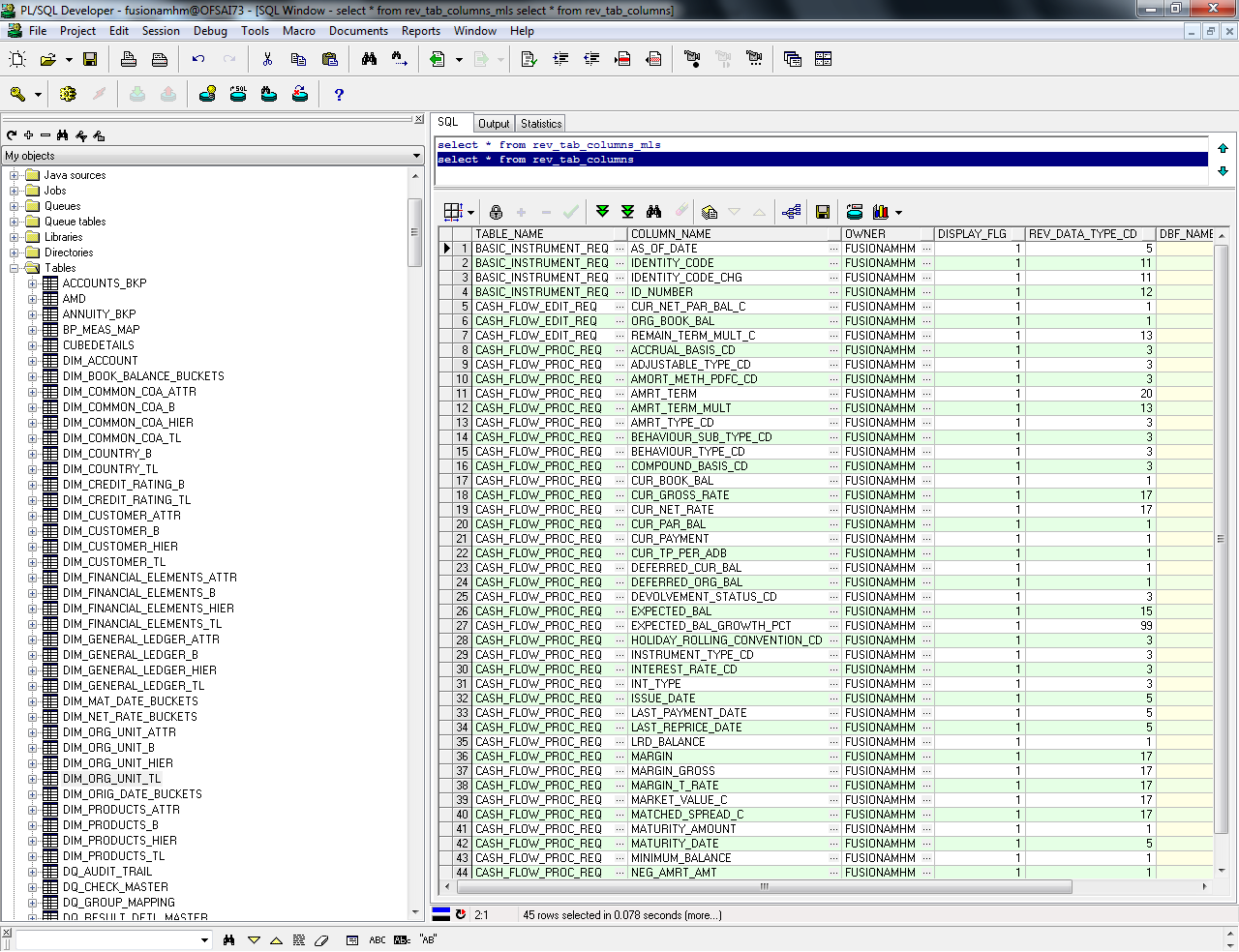
Also, add a entry in rev\_tables\_tl table as well.



**select** \* **from** rev\_tab\_columns\_mls;  
**select** \* **from** rev\_tab\_columns ;

we would need to add all the columns of the table which we are going to add newly to the above tables as well.





INSERT INTO atom012.rev\_tables\_b SELECT \* FROM dqinfo.rev\_tables\_b

INSERT INTO atom012.rev\_tables\_tl SELECT \* FROM dqinfo.rev\_tables\_tl

INSERT INTO atom012.rev\_tab\_columns\_mls SELECT \* FROM dqinfo.rev\_tab\_columns\_mls

INSERT INTO atom012.rev\_tab\_columns SELECT \* FROM dqinfo.rev\_tab\_columns

INSERT INTO atom012.rev\_table\_class\_assignment SELECT \* FROM dqinfo.rev\_table\_class\_assignment

**DCDQ Tables**

|  |
| --- |
| **When we create Rule and Group** |
| **Table Name** |
| dq\_group\_mappings |
|  |
| **For specific check:(before execution)** |
| **Table Name** |
| dq\_check\_master |
| rev\_dq\_assignments |
|  |
| **For generic check:(before execution)** |
| **Table Name** |
| dq\_check\_master |
| rev\_dq\_conditions |
| rev\_dq\_assignments |
|  |
| **Tables to check after exeuction** |
| dq\_audit\_trail |
| dq\_result\_summ\_master |
| dq\_result\_detail\_master |
| **Messages tables:**  REV\_DATA\_ASSIGNMENTS\_MSG\_MLS  REV\_DATA\_ASSIGNMENTS\_MSG\_CD |
| **Example SQLs** |
| SELECT \* FROM dq\_group\_mapping |
| SELECT \* FROM dq\_check\_master where v\_dq\_check\_id = 'paramtest1\_rule' |
| SELECT \* FROM rev\_dq\_assignments WHERE N\_CONDTION\_SYS\_ID\_NUM = '201707' |
| SELECT \* FROM dq\_audit\_trail WHERE v\_execution\_identifier = 'FUSIONAMHM\_paramtest\_group\_DQBATCH\_1' |
| SELECT \* FROM dq\_result\_summ\_master WHERE v\_batch\_id = 'FUSIONAMHM\_paramtest\_group\_DQBATCH\_1' |
| SELECT \* FROM dq\_result\_detl\_master WHERE v\_batch\_id = 'FUSIONAMHM\_paramtest\_group\_DQBATCH\_1' |
| rev\_table\_class\_assignments(table\_classification\_cd=340) |

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

**Code and leaf population method.**

Code and/or  Leaf members can be populated at two stages :-

1. Specific Check
   1. List of Value/Code Check – we need to select Input Value has Code
   2. Assignment Type has Code
2. Generic Check
   1. Assignment Type has Code

Steps to populate Code/Leaf in DQ Definition Screen :-

1. DataType for Code is 3 and Leaf is 10
   1. SELECT ODT.REV\_DATA\_TYPE,ODT.REV\_DATA\_TYPE\_CD FROM FSI\_DATA\_TYPE\_DESC ODT
2. To identify which all DQ tables have Code and leaf
   1. SELECT TABLE\_NAME FROM REV\_TABLE\_CLASS\_ASSIGNMENT WHERE TABLE\_NAME IN(SELECT DISTINCT TABLE\_NAME FROM REV\_TAB\_COLUMNS WHERE REV\_DATA\_TYPE\_CD IN (3,10) ) AND TABLE\_CLASSIFICATION\_CD=340

Eg:- 'FSI\_D\_ANNUITY\_CONTRACTS’ table is obtained

1. For the obtained DQ tables from point 2, we get the columns which are having code/leaf
   1. SELECT TABLE\_NAME,COLUMN\_NAME,REV\_DATA\_TYPE\_CD FROM REV\_TAB\_COLUMNS WHERE REV\_DATA\_TYPE\_CD IN (3,10) AND TABLE\_NAME IN ('FSI\_D\_ANNUITY\_CONTRACTS')

Eg:-

|  |  |  |
| --- | --- | --- |
| TABLE\_NAME | COLUMN\_NAME | REV\_DATA\_TYPE\_CD |
| FSI\_D\_ANNUITY\_CONTRACTS | BEHAVIOUR\_SUB\_TYPE\_CD | 3 |
| FSI\_D\_ANNUITY\_CONTRACTS | BEHAVIOUR\_TYPE\_CD | 3 |
| FSI\_D\_ANNUITY\_CONTRACTS | COMMON\_COA\_ID | 10 |

1. For Codes following queries are fired:-

            Say I have choose base Table = 'FSI\_D\_ANNUITY\_CONTRACTS' and base Column = 'BEHAVIOUR\_SUB\_TYPE\_CD'

* 1. SELECT MEMBER\_BASE\_TABLE\_NAME B,DESCRIPTION\_TABLE\_NAME T1,DESCRIPTION\_JOIN\_COLUMN\_NAME JOINING\_COL,VALUES\_COLUMN\_NAME CODE\_VALUES\_FROM

FROM **REV\_DESCRIPTION\_TABLES**  WHERE COLUMN\_NAME ='BEHAVIOUR\_SUB\_TYPE\_CD' AND TABLE\_NAME    ='FSI\_D\_ANNUITY\_CONTRACTS'

|  |  |  |  |
| --- | --- | --- | --- |
| B | TL | JOINING\_COL | CODE\_VALUES\_FROM |
| FSI\_BEHAVIOUR\_SUB\_TYPE\_CD | FSI\_BEHAVIOUR\_SUB\_TYPE\_MLS | BEHAVIOUR\_SUB\_TYPE\_CD | BEHAVIOUR\_SUB\_TYPE\_DESC |

* 1. Dynamic Query is built based on the output of 4.a query. This provides us the Code list.

SELECT B.BEHAVIOUR\_SUB\_TYPE\_CD CODE, TL.BEHAVIOUR\_SUB\_TYPE\_DESC CODE\_VALUES FROM FSI\_BEHAVIOUR\_SUB\_TYPE\_CD B,  FSI\_BEHAVIOUR\_SUB\_TYPE\_MLS TL

WHERE B.BEHAVIOUR\_SUB\_TYPE\_CD = TL.BEHAVIOUR\_SUB\_TYPE\_CD

|  |  |
| --- | --- |
| CODE | CODE\_VALUES |
| 101 | Core |
| 102 | Volatile |
| 201 | Substandard |
| 202 | Doubtful |
| 203 | Loss |
| 301 | Sight Devolvement |
| 302 | Sight Recovery |
| 303 | Usance Devolvement |
| 304 | Usance Recovery |
| 305 | Usance |
| 306 | Sight |

1. For Leaf ,following queries are fired:-

Say I have choose base Table = 'FSI\_D\_ANNUITY\_CONTRACTS' and base Column =’COMMON\_COA\_ID’

* 1. Need to identify the dimension member for the selected base column

SELECT B.DIMENSION\_ID, TL.DIMENSION\_NAME FROM **REV\_DIMENSIONS\_B** B, REV\_DIMENSIONS\_TL TL WHERE B.MEMBER\_COL = 'COMMON\_COA\_ID' AND B.DIMENSION\_ID = TL.DIMENSION\_ID AND B.DEFINITION\_LANGUAGE = 'US'

|  |  |
| --- | --- |
| DIMENSION\_ID | DIMENSION\_NAME |
| 3 | Common Chart of Accounts |

* 1. For this dimension , what the joining tables where we can query the leaf

SELECT MEMBER\_B\_TABLE\_NAME B, MEMBER\_TL\_TABLE\_NAME TL, MEMBER\_COL JOINING\_COL, MEMBER\_DISPLAY\_CODE\_COL LEAF\_CODE, MEMBER\_NAME\_COL LEAF\_VALUES\_FROM FROM **REV\_DIMENSIONS\_B** WHERE DIMENSION\_ID = 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| B | TL | JOINING\_COL | LEAF\_CODE | LEAF\_VALUES\_FROM |
| DIM\_COMMON\_COA\_B | DIM\_COMMON\_COA\_TL | COMMON\_COA\_ID | COMMON\_COA\_DISPLAY\_CODE | COMMON\_COA\_NAME |

* 1. Dynamic Query is built based on the output of 5.b query. This provides us the Leaf list.

SELECT B.COMMON\_COA\_DISPLAY\_CODE LEAF\_CODE, TL.COMMON\_COA\_NAME LEAF\_VALUES FROM DIM\_COMMON\_COA\_B B,  DIM\_COMMON\_COA\_TL TL

WHERE B.COMMON\_COA\_ID = TL.COMMON\_COA\_ID

AND TL.LANGUAGE = 'US'

AND B.LEAF\_ONLY\_FLAG ='Y'

ORDER BY TL.COMMON\_COA\_NAME

|  |  |
| --- | --- |
| LEAF\_CODE | LEAF\_VALUES |
| 502 | AMUM\_MEM5 |
| 503 | AMUM\_MEM6 |
| 504 | AMUM\_MEM7 |
| 506 | AMUM\_MEM77 |
| 505 | AMUM\_MEM8 |
| 513 | Return Value 1 |
| 511 | Return& |
| 515 | dfdsfffg |
| 104 | ewrwe1 |
| 101 | ewrwe1234 |
| 105 | key\_num\_01\_leaf |
| 7 | mem/0101 |
| 79 | mem/01013423sdfdgrt |
| 78 | mem/0101gfdg7869876 |

Custom Check SQL

select PK\_NAMES,PK\_1,PK\_2,PK\_3,PK\_4,PK\_5,PK\_6,ERROR\_COLUMN from

(SELECT NULL PK\_NAMES, NULL PK\_1,NULL PK\_2,NULL PK\_3,NULL PK\_4,

ACCOUNT\_NUMBER PK\_5, ACCOUNT\_GROUP\_CD PK\_6, CASE WHEN

ACCOUNT\_GROUP\_CD IS NULL AND ACCOUNT\_NUMBER IS NOT NULL

THEN 1 ELSE 0 END ERROR\_COLUMN FROM FSI\_D\_INVESTMENTS)