1 DATA COMPLETENESS TEST

Data completeness test are designed to verify that all the expected data loads into the DWH. This includes running detailed test to verify that all records, all fields and the full contents of each field are loaded.

S: Customer

| ID | NAME | CITY |
|---|---|---|
| 1 | Swathi | BNG |
| 2 | Kirti | CHN |
| 3 | Neelam | HYD |
| 4 | Shikha | BNG |
| ! | ! | ! |
| ; | ; | ; |
| 1000 | | |

ETL →

T: Customer_Dim

| ID | NAME | CITY |
|---|---|---|
| 1 | Swathi | BNG |
| 2 | Kirti | CHN |
| 3 | Neelam | HYD |
| 4 | Shikha | BNG |
| ! | ! | ! |
| ; | ; | ; |
| 1000 | | |

→ Once data is loaded to target system by developer testers have to check if data is loaded properly according to business requirement.

→ Strategies to consider includes :

✓ Record counts must be compared between the source data and the target data.

* S: SELECT COUNT (ID) FROM CUSTOMER ; → 1000

* T : SELECT COUNT (ID) FROM CUSTOMER_Dim ; → 1

✓ Checking the duplicate records in target table.

T : SQL > SELECT ID, COUNT (ID) FROM CUSTOMER_DIM GROUP BY ID HAVING COUNT (ID) > 1 ;

✓ Column mapping from source to target.

S: SELECT ID, NAME, CITY FROM OLTP-SOURCE CUSTOMER
MINUS
SELECT ID, NAME, CITY FROM CUSTOMER_DIM ;

✓ Populating the full contents of each field to validate that no truncation occurs in at any step in the process.
Same minus query ~~as~~ as above.

Ex:

1) S : SELECT COUNT (EMPNO) FROM EMP, DEPT
T : WHERE EMP. DEPTNO = DEPT. DEPTNO;

T : SELECT COUNT (EMPNO) FROM EMPLOYEE_
TARGET ;

2) T : SELECT EMPNO, COUNT (EMPNO) FROM EMPL-
- OYEE_TARGET GROUP BY EMPNO HAVING
COUNT (EMPNO) > 1 ;

3 T : SELECT E.EMPNO, E.ENAME, E.JOB, E.MGR,
E. HIREDATE, E.COMM, E. DEPTNO, D.DNAME
FROM OLTP_SOURCE: EMP.E, OLTP_SOURCE.
DEPT D WHERE E. DEPTNO = D.DEPTNO ;
MINUS
SELECT EMPNO, ENAME, JOB, MGR, HIREDATE,
SAL, COMM, DEPTNO, DNAME FROM EMPLOYEE_
TARGET ;