

Validate correct processing of ETL-generated fields such as surrogate keys.

Testing slowly changing dimensions (Type 1, Type 2 and Type 3 dimensions)

Following are the list of Transformation available in informatica :

- 1 Aggregator transformation
- 2 Expression transformation
- 3 Filter transformation.
- 4 Joiner transformation
- 5 Router transformation
- 6 Sequence transformation
- 7 Sorter transformation
- 8 Lookup transformation

#### 1. AGGREGATOR TRANSFORMATION :

This trans<sup>e</sup> is useful to perform calculation such as average and sums etc (Mainly to perform calculations on multiple rows or groups)

Ex: Load the count of employees, sum salary, Maximum salary, Minimum salary for a particular department.

S : EMP

T : EMP\_T

ENO	ENAME	SAL	DNO	
1	Raju	50000	10	
2	Swati	30000	20	ETL PTO
3	Neelam	5000	10	
4	Kirti	15000	20	
5	Mounika	20000	10	

T : EMP-T						
	DNO	TOT-EMP	TOT-SAL	HIGH-SAL	LOW-SAL	AVG-SAL
ETL →	10	3	75000	50000	5000	6000
	20	2	45000	30000	15000	4000

1) For both tables record count should be same.

S : SELECT COUNT (DISTINCT(DNO)) FROM OLTP-EMP ;

T : SELECT COUNT (DNO) FROM EMP-T ;

T: In Target table there should not be present any single record NULL

SQL > select \* from EMP Where DNO is null or  
Tot-emp is null or Tot-sal is null or  
High-sal is null or Low-sal is null or  
Avg-sal is null ;

T: Target table should not contain any Duplicate records.

SQL > SELECT DNO, COUNT (DNO) FROM EMP-T  
GROUP BY DNO HAVING COUNT (DNO) > 1 ;

T: Column mapping

select dno, count of (ENO) as Tot-emp,  
sum (sal) fro as Tot-sal, Max (sal) as high-sal,  
min (sal) as low-sal, Avg (sal) as avg-sal  
from OLTP.Emp Group by Dno ;  
MINUS

Select Dno, Tot-emp, Tot-sal, High-sal,  
Low-sal, Avg-sal From Emp-T ;

→ Aggregator transformation for EMP table.

EMP\_AGG\_TARGET

DEPT DNAME TOT-EMP TOT-SAL HIGH-SAL LOW-SAL

1) S: SELECT COUNT (DISTINCT (E.DEPTNO)) FROM OLTP-SOURCE.EMP E, OLTP-SOURCE.DEPT D WHERE E.DEPTNO = D.DEPTNO;

T: SELECT COUNT (DEPTNO) FROM EMP\_AGG\_TARGET

2 T: SELECT \* FROM EMP\_AGG\_TARGET WHERE DEPTNO IS NULL OR DNAME IS NULL OR TOTAL-EMP IS NULL OR TOTAL-SAL IS NULL OR HIGH-SAL IS NULL OR MIN-SAL IS NULL;

3 Target table should not contain duplicate data

T: SELECT DEPTNO, COUNT (DEPTNO) FROM EMP\_AGG\_TARGET GROUP BY DEPTNO HAVING

4 COUNT (DEPTNO) > 1;

4 Verifying for mandatory columns

→ mandatory column should not have null values

T: SELECT \* FROM EMP\_AGG\_TARGET WHERE DEPTNO IS NULL OR DNAME IS NULL OR TOTAL-EMP IS NULL OR TOTAL-SAL IS NULL OR HIGH-SAL IS NULL OR MIN-SAL IS NULL;

5 Column mapping :