

ACCESS INPUT PROCESSING:

1. Microsoft Access Input:

#	Name	Column	Type	Format	Length	Precision	Currency	Decimal	Group	Trim type	Repeat
1	PurchaseDay	PurchaseDay	Integer		2					none	N
2	PurchaseYear	PurchaseYear	Integer		4					none	N
3	UnitCost	UnitCost	Number		4	2				none	N
4	Quantity	Quantity	Integer		3					none	N
5	Currency	Currency	String		3					none	N
6	BranchPlantKey	BranchPlantKey	Integer							none	N
7	ItemMasterKey	ItemMasterKey	Integer							none	N
8	CustVendorKey	CustVendorKey	Integer							none	N
9	TransTypeKey	TransTypeKey	Integer							none	N
10	PurchaseMonth	PurchaseMonth	Integer		2					none	N
11											

2. Reject a record if any field is null

Step name: Filter rows

Send 'true' data to step:

Send 'false' data to step:

The condition:

PurchaseDay IS NOT NULL

AND

PurchaseYear IS NOT NULL

AND

UnitCost IS NOT NULL

AND

Quantity IS NOT NULL

AND

BranchPlantKey IS NOT NULL

AND

ItemMasterKey IS NOT NULL

AND

CustVendorKey IS NOT NULL

AND

TransTypeKey IS NOT NULL

AND

PurchaseMonth IS NOT NULL

3. Reject a record if any field value does not match its data type

Stepname : Data Validator

Select a validation to edit :

- BranchPlantKey
- PurchaseMonth
- PurchaseDay
- PurchaseYear
- ItemMasterKey
- TransTypeKey
- CustVendorKey
- UnitCost
- Currency
- Quantity

☐ Report all errors, not only the first

☐ Output one row, concatenate errors with separator : |

Validation description: BranchPlantKey

Name of field to validate: BranchPlantKey

Error code:

Error description:

Type

Verify data type? ☒

Data type: Integer

Conversion mask:

Decimal Symbol:

Grouping Symbol:

Data

Null allowed? ☐

Only null values allowed? ☐

Only numeric data expected? ☐

Max string length:

Min string length:

Maximum value:

Minimum value:

Expected start string:

Expected end string:

Not allowed start string:

4. Reject invalid foreign key references : Join Date Dim

Merge Join

Step name: Merge Join

First Step: Sort rows

Second Step: Sort rows 2

Join Type: INNER

Keys for 1st step:

#	Key field
1	PurchaseDay
2	PurchaseMonth
3	PurchaseYear
4	

Get key fields

Keys for 2nd step:

#	Key field
1	CALDAY
2	CALMONTH
3	CALYEAR

Get key fields

Help OK Cancel

5. Reject invalid foreign key references : Join Trans Type Dim

Diagram showing data flow: Microsoft Access Input → Data Validator → Filter rows → Sort rows → Merge Join → Sort rows 3 → Merge Join 2 → Sort rows 4 → Trans_Type_Dim. Date_Dim is also connected to Sort rows 2.

Execution Results

#	Stepname	Copied	Read	Written	Input
1	Microsoft Access Input	0	0	16	
2	Filter rows	0	16	14	

Merge Join

Step name: Merge Join 2

First Step: Sort rows 3

Second Step: Sort rows 4

Join Type: INNER

Keys for 1st step:

#	Key field
1	TransTypeKey

Get key fields

Keys for 2nd step:

#	Key field
1	TRANSTYPEKEY

Get key fields

Help OK Cancel

6. Reject invalid foreign key references : Join Cust Vendor Dim

Step name: Merge Join 3

First Step: Sort rows 5

Second Step: Sort rows 6

Join Type: INNER

Keys for 1st step:

#	Key field
1	CustVendorKey

Get key fields

Keys for 2nd step:

#	Key field
1	CUSTVENDORKEY

Get key fields

7. Reject invalid foreign key references :Join Item Master Dim

Merge Join

Step name: Merge Join 4

First Step: Sort rows 7

Second Step: Sort rows 8

Join Type: INNER

Keys for 1st step:

#	Key field
1	ItemMasterKey

Get key fields

Keys for 2nd step:

#	Key field
1	ITEMMASTERKEY

Get key fields

Help OK Cancel

8. Reject invalid foreign key references : Join Branch Plant Dim

Step name: Merge Join 5

First Step: Sort rows 9

Second Step: Sort rows 10

Join Type: INNER

Keys for 1st step:

#	Key field
1	BranchPlantKey

Keys for 2nd step:

#	Key field
1	BRANCHPLANTKEY

Get key fields

9. Reject invalid foreign key references : Join Currency Dim

Step name: Merge Join 6

First Step: Sort rows 11

Second Step: Sort rows 12

Join Type: INNER

Keys for 1st step:

#	Key field
1	Currency

Keys for 2nd step:

#	Key field
1	CURRENCY_ID

Get key fields

10. Calculator Transformation for Unit Cost and ExtCost:

Step name: Calculator

#	New field	Calculation	Field A	Field B	Field C	Value type	Length	Precision	Remove	Conversion mask	Decimal symbol	Grouping symbol	Currency
1	O_UnitCost	A * B	UnitCost	EXCHANGE_RATE		Number	12	4	N				
2	O_ExtCost	A * B	O_UnitCost	Quantity		Number	14	2	N				

OK Cancel

Help

Text file output Update

Execution History Logging Step Metrics Performance Graph Metrics Preview data

11. Add Sequence

Get Value From Sequence

Step name: Add sequence

Name of value: AccessSEQ

Use a database to generate the sequence

Use DB to get sequence? ☒

Connection: AccessConnection Edit... New... Wizard...

Schema name: Schemas...

Sequence name: INVENTORY_SEQ Sequences...

Use a transformation counter to generate the sequence

Use counter to calculate sequence? ☐

Counter name (optional):

Start at value: 1

Increment by: 1

Maximum value: 999999999

Help OK Cancel

12. Insert/Update INVENTORY_FACT table:

Insert / Update

Step name:

Connection:

Target schema:

Target table:

Commit size:

Don't perform any updates: ☐

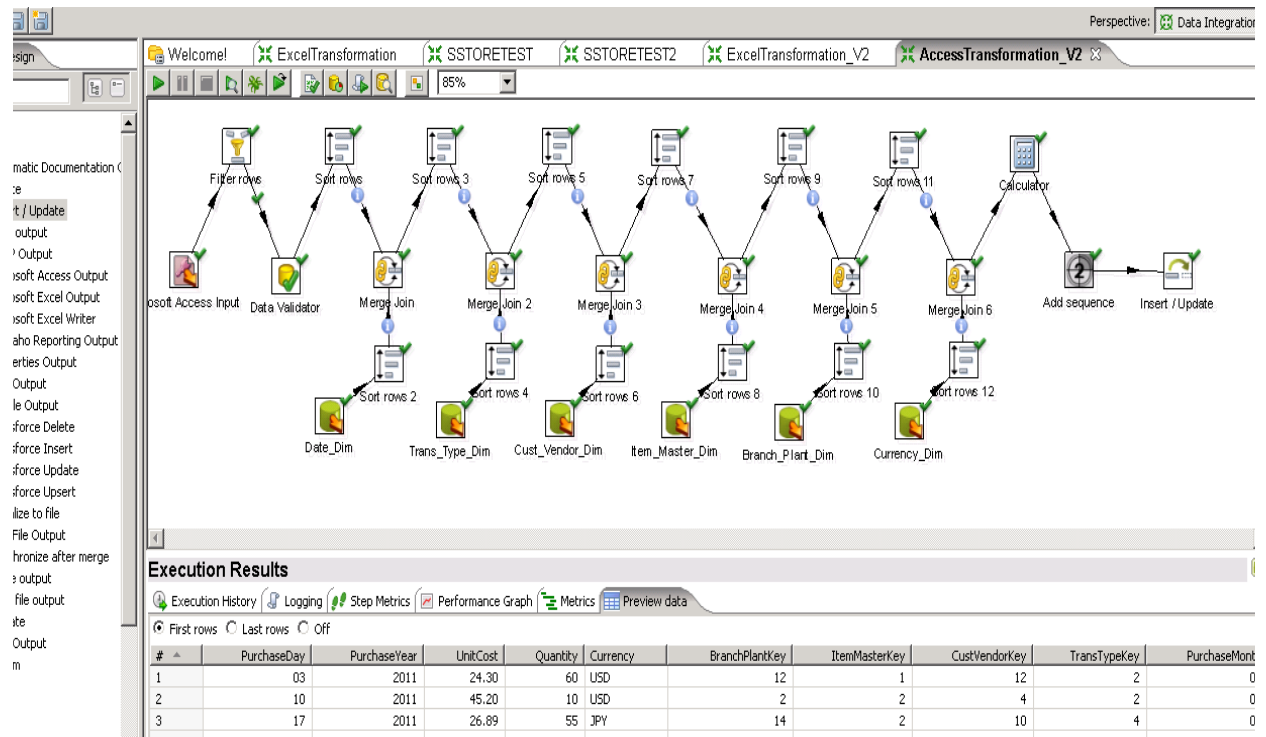
The key(s) to look up the value(s):

#	Table field	Comparator	Stream field1	Stream field2
1	INVENTORYKEY	=	AccessSEQ	
2	BRANCHPLANTKEY	=	BRANCHPLANTKEY_1	
3	DATEKEY	=	DATEKEY	
4	ITEMMASTERKEY	=	ITEMMASTERKEY_1	
5	TRANSTYPEKEY	=	TRANSTYPEKEY_1	
6	CUSTVENDORKEY	=	CUSTVENDORKEY_1	
7	UNITCOST	=	O_UnitCost	
8	QUANTITY	=	Quantity	
9	EXTCOST	=	O_ExtCost	

Update fields:

#	Table field	Stream field	Update
1	INVENTORYKEY	AccessSEQ	N
2	BRANCHPLANTKEY	BRANCHPLANTKEY_1	N
3	DATEKEY	DATEKEY	N
4	ITEMMASTERKEY	ITEMMASTERKEY_1	N
5	TRANSTYPEKEY	TRANSTYPEKEY_1	N
6	CUSTVENDORKEY	CUSTVENDORKEY_1	N
7	UNITCOST	O_UnitCost	N
8	QUANTITY	Quantity	N
9	EXTCOST	O_ExtCost	N

Complete Transformation:



Execution: Step Output Stats:

Execution Results												
Execution History Logging Step Metrics Performance Graph Metrics Preview data												
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
1	Microsoft Access Input	0	0	16	16	0	0	0	0	Finished	0.3s	63
2	Filter rows	0	16	14	0	0	0	0	0	Finished	0.3s	56
3	Data Validator	0	14	14	0	0	0	0	0	Finished	0.3s	48
4	Sort rows	0	14	14	0	0	0	0	0	Finished	0.3s	47
5	Merge Join	0	118	12	0	0	0	0	0	Finished	0.7s	178
6	Date_Dim	0	0	104	104	0	0	0	0	Finished	0.4s	295
7	Sort rows 2	0	104	104	0	0	0	0	0	Finished	0.4s	292
8	Sort rows 3	0	12	12	0	0	0	0	0	Finished	0.7s	18
9	Merge Join 2	0	17	12	0	0	0	0	0	Finished	1.0s	16
10	Trans_Type_Dim	0	0	5	5	0	0	0	0	Finished	0.3s	17
11	Sort rows 4	0	5	5	0	0	0	0	0	Finished	0.3s	17
12	Sort rows 5	0	12	12	0	0	0	0	0	Finished	1.0s	11
13	Merge Join 3	0	32	11	0	0	0	0	0	Finished	1.4s	23
14	Cust_Vendor_Dim	0	0	20	20	0	0	0	0	Finished	0.7s	28
15	Sort rows 6	0	20	20	0	0	0	0	0	Finished	0.7s	28
16	Sort rows 7	0	11	11	0	0	0	0	0	Finished	1.4s	8
17	Merge Join 4	0	31	11	0	0	0	0	0	Finished	1.7s	18
18	Item_Master_Dim	0	0	20	20	0	0	0	0	Finished	0.7s	29
19	Sort rows 8	0	20	20	0	0	0	0	0	Finished	0.7s	29
20	Sort rows 9	0	11	11	0	0	0	0	0	Finished	1.7s	6
21	Merge Join 5	0	31	11	0	0	0	0	0	Finished	2.0s	15
22	Branch_Plant_Dim	0	0	20	20	0	0	0	0	Finished	0.7s	30
23	Sort rows 10	0	20	20	0	0	0	0	0	Finished	0.7s	30
24	Sort rows 11	0	11	11	0	0	0	0	0	Finished	2.0s	5
25	Merge Join 6	0	15	11	0	0	0	0	0	Finished	2.4s	6
26	Currency_Dim	0	0	4	4	0	0	0	0	Finished	0.6s	6
27	Sort rows 12	0	4	4	0	0	0	0	0	Finished	0.6s	6
28	Calculate	0	4	4	0	0	0	0	0	Finished	0.4s	4