

# Informatica Transformations – Examples

## Informatica Transformations

**Informatica Transformations** are PowerCenter repository objects that generates, modifies and passes data. Transformation allows you to define business rules for processing data. Informatica PowerCenter Designer provides a set of transformations to perform specific functions. Informatica Transformations are classified in to Active Transformations and Passive Transformations.

### What is Active transformation?

**Active transformation in Informatica** can effect the no of rows that passes through the transformation, change the transaction boundary and or change the no of rows by taking ‘n’ of input records,can it may return <, =, > n no’of output records. The following are the list of active transformations used for processing the data.

Transformation	Type	Description
Aggregator	Active/Connected	It performs aggregator calculations
Application Source Qualifier	Active/Connected	It represents the rows that the Integration service reads from an application, such as ERP source, when it runs a session.
Custom	Active or Passive / Connected	It calls a procedure in a shared library or DLL.
Filter	Active / Connected	It filters data.
Java	Active or Passive / Connected	Executes user logic coded in Java. The byte code for the user logic is stored in the repository.
Joiner	Active / Connected	Joins data from different databases or flat file system.
Normalizer	Active / Connected	Source qualifier for COBOL source. Can also use in the pipeline to normalize data from relational or flat file source.
Rank	Active / Connected	It limits records to a top or bottom range.
Router	Active / Connected	It routes data into multiple transformations based in group condition.
Sorter	Active / Connected	It sorts data based on a sort key.

Source Qualifier	Active / Connected	It represents the rows that the Integration service reads from a relational or flat file source when it runs a session.
Transformation Control	Active / Connected	It defines commit and rollback transactions.
Union	Active / Connected	It merges data from different database or flat file system.
Unstructured Data	Active or Passive / Connected	Transforms data in unstructured and semi-structured formats.
Update Strategy	Active / Connected	It determines whether to insert, delete, update or reject rows.
XML generator	Active / Connected	Reads data from one or more input ports and outputs XML through a single output port.
XML Parser	Active / Connected	Reads XML from one or more input ports and Outputs data to one or more output ports.
XML Source Qualifier	Active / Connected	Represents the rows that the Integration service reads from an XML source when it runs a session

## What is passive Transformation?

**Passive Transformation in Informatica** that does not affect the number of rows that passes through the transformation, maintains the transaction boundary and it does not change the number of rows by taking 'n' no'of input records and returns the same no of output records. Following are the list of passive Transformations used for processing the data.

Transformation	Type	Description
Expression	Passive / Connected	It calculates a value.
HTTP	Passive / Connected	It connects to an HTTP server to read or update data.
Input	Passive / Connected	It defines mapplet input rows and available in the Mapplet designer.
Lookup	Passive / Connected or Unconnected	Looks up values.
Output	Passive / Connected	It defines mapplet output rows and available in Mapplet designer.
Sequence generator	Passive / Connected	It generated primary keys.
Stored procedure	Passive / Connected	It calls a stored procedure.

## Unconnected Transformation

Informatica Transformation can be connected to the data flow, or they can be unconnected. An unconnected transformation is not connected to other transformation in the mapping and called within another transformation, and returns a value to that transformation.

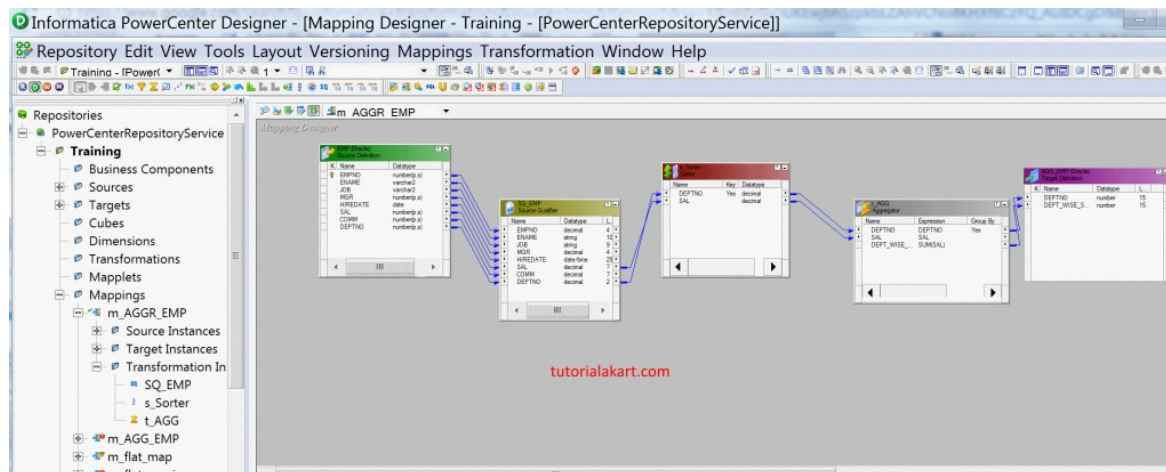
## How to create an Informatica Transformation.

Informatica transformation can be created using Designer tools such as *Mapping Designer*, *Transformation developer* and *Mapplet Designer*, then **configure the transformation** by adding ports, properties, groups, expressions and so on and finally **link the transformation to other transformation and target definitions** by drag and drop method in the mapping or mapplet.

**Mapping Designer:** Mapping Designer in Informatica creates transformations that connects Source to Target.

**Transformation Developer:** Transformation developer creates individual transformations called reusable transformations that can be used in other mappings.

**Mapplet Designer:** Mapplet designer creates and configures transformations called as Mapplets, these transformations can be used in multiple mappings.



## Conclusion

I hope this Informatica Transformations tutorial was helpful to understand the basics of Informatica Transformations and in our upcoming Informatica Transformations tutorial, we will learn about each transformation in detail with example.

- ◆ [Informatica Tutorial - Home](#)
- ◆ [What is Informatica?](#)
- ◆ [Informatica - Architecture.](#)
- ◆ [Informatica - PowerCenter Repository Service](#)
- ◆ [Informatica - What is PowerCenter Integration Service?](#)
- ◆ [What is PowerCenter Repository Manager](#)
- ◆ [What is informatica PowerCenter Designer?](#)
- ◆ [Informatica - Data Transformation Manager \(DTM\)](#)
- ◆ [Informatica - DTM Threads](#)
- ◆ [Informatica - Load Balancing](#)
- ◆ [Different ETL tools in Informatica](#)
- ◆ [What is Mapping architect for Visio?](#)
- ◆ [Informatica - PowerCenter 10.0.1 Installation Step by Step](#)
- ◆ [Informatica - Creating Integration Service](#)
- ◆ [Creating Informatica Repository Service](#)
- ◆ [Configuring Client Domain in Informatica](#)
- ◆ [Learn how to create ODBC connections in Informatica](#)
- ◆ [Creating Source Analyzer in Informatica](#)
- ◆ [Creating Target designer in Informatica](#)
- ◆ [Create Users and Folders in Informatica](#)
- ◆ [Setting up Target Database in Informatica](#)
- ◆ [Learn and Create Workflows in Informatica](#)
- ◆ [Learn and Create Mapping in Informatica](#)
- ◆ [Learn and Create a session in Informatica](#)
- ◆ [Informatica PowerCenter Repository Backup / Restore steps](#)

## **Informatica Transformations**

### ⇒ **Introduction to Informatica transformations**

- ◆ [Aggregator Transformation](#)
- ◆ [Filter Transformation](#)
- ◆ [Lookup Transformation](#)
- ◆ [Rank Transformation](#)
- ◆ [Router Transformation](#)

◆ Update Strategy Transformation

◆ Joiner Transformation

◆ Expression Transformation

◆ Source Qualifier Transformation

◆ Sorter Transformation

◆ Union Transformation

◆ Normalizer Transformation

◆ SQL Transformation

◆ Sequence Transformation

◆ Stored Transformation

◆ Transaction Control Transformation

◆ XML Generator Transformation

◆ XML Parser Transformation