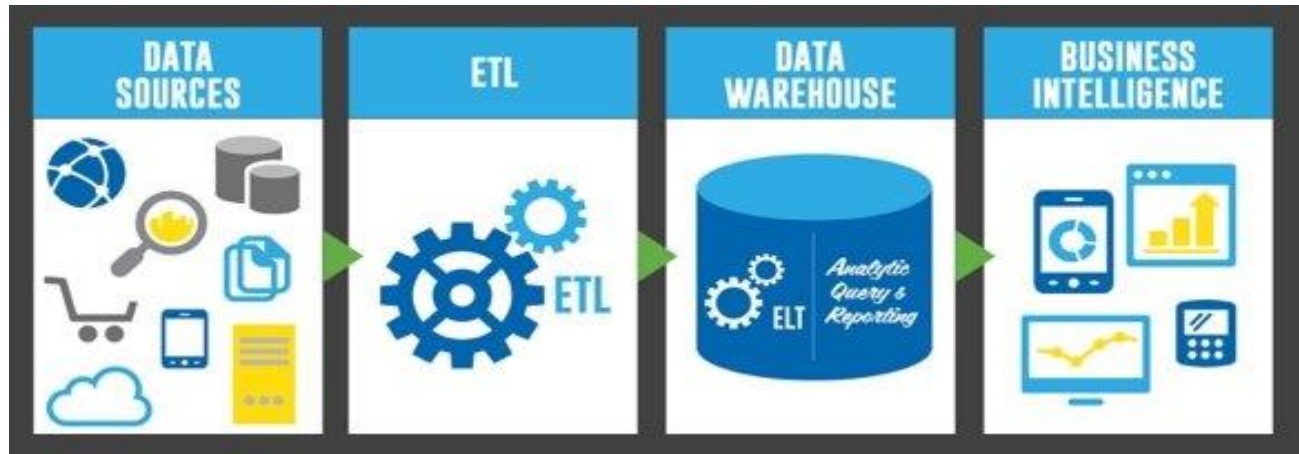


# Data Integration & Warehousing on a Retail Store

By

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## Summary

Design an ETL pipeline using Talend to integrate data from sources like PostgreSQL, MySQL, Oracle, SQL server, and CSV files into data warehouse. Perform source to target mapping, transformation using joins and filters. Model a Data warehouse by creating a multi-dimensional Star Schema consisting of facts and dimensions. Implement Slowly Changing Dimensions, Error Handling, Rejects codes for Performance Tuning. Optimized batch load size and paralleled job execution that will increase job execution efficiency.

## What is Dimension Table?

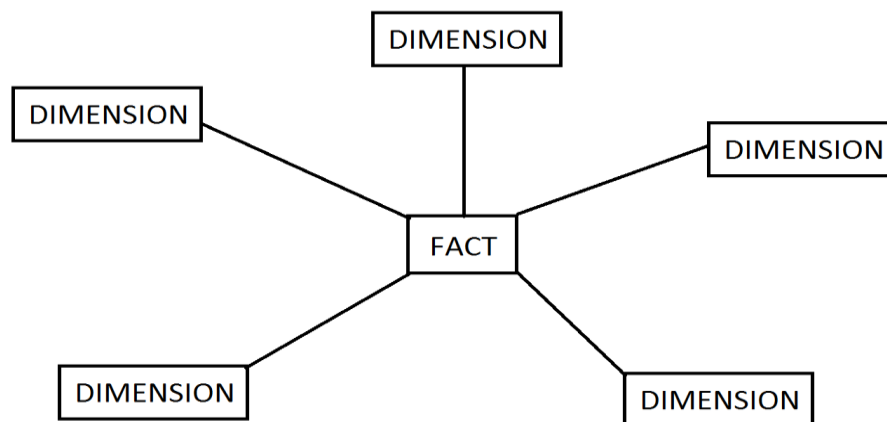
Provides the descriptive context – attributes with the who, what, when, why, or how

## What is Fact Table?

Fact tables contain the numeric, quantitative data (measures)

## What is star schema look like?

Star schema is Datawarehouse schema whose design represents multidimensional model containing Fact tables and Dimension tables. Model resembles to the star shape having a fact table at its center and the dimension tables at its peripheral representing the star's points as shown in following figure.



## Data integration and Warehouse creation will be done by performing following steps:

1. We have given source data which is stored in MySQL, MS SQL, Oracle, PostgreSQL, and CSV files whose details are given in the following section
2. Target Datawarehouse is in SQL server having name: AdventureWorksDW
3. We need to create Talend jobs to extract, transform and load data in dimension and fact tables in AdventureWorksDW
4. Perform data analysis by executing SQL commands on AdventureWorksDW

<b>SYSTEM OF RECORDS (SOR)</b>				
<b>Serial NO</b>	<b>SOR ID</b>	<b>Source Name</b>	<b>Source Description</b>	<b>Type</b>
1	1	AdventureWorks2016_us.bak	AdventureWorks Source File (US)	SQL Server
2	2	AdventureWorks2016_CA.zip	Adventure Works Source File (CA)	Oracle
3	3	AdventureWorks2016_eu.sql	Adventure Works Source File (eu)	MySQL
4	4	AdventureWorks2016_au.sql	Adventure Works Source File (au)	Postgre
5	5	DimCurrency.csv	DimCurrency File	CSV
6	6	DimLocation.csv	Location File	CSV
7	7	DimScrapReason.csv	Scrap Reason File	CSV
8	8	Employee_Manager.csv	Employee_Manager File	CSV
9	9	BillOfMaterials.csv	BillOfMaterials File	CSV
10	10	Shift.csv	Shift File	CSV
11	11	SalesReason.csv	Sales Reason	CSV
12	12	SalesTaxRate.csv	Sales Tax Rate	CSV
13	13	SalesTerritoryHistory.csv	Sales Territory History	CSV
14	14	FactCurrencyRateConversion.csv	Currency Rate Conversion (Fact) file	CSV

## **Source: AdventureWorks2016 us**

		Column				Identity
TableName	ColumnName	Order	DataType	Nullable	Primary Key	Column
Department	DepartmentID	1	smallint	No	PK	Identity
Department	Name	2	nvarchar(50)	No		
Department	GroupName	3	nvarchar(50)	No		
Department	ModifiedDate	4	datetime	No		

		Column				Identity
TableName	ColumnName	Order	DataType	Nullable	Primary Key	Column
Employee	BusinessEntityID	1	int	No	PK	Identity
Employee	NationalIDNumber	2	nvarchar(15)	No		
Employee	LoginID	3	nvarchar(256)	No		
Employee	OrganizationNode	4	hierarchyid	Yes		
Employee	OrganizationLevel	5	smallint	Yes		
Employee	JobTitle	6	nvarchar(50)	No		
Employee	BirthDate	7	date	No		
Employee	MaritalStatus	8	nchar(1)	No		
Employee	Gender	4	nchar(1)	No		
Employee	HireDate	9	date	No		
Employee	SalariedFlag	10	bit	No		
Employee	VacationHours	11	smallint	No		
Employee	SickLeaveHours	12	smallint	No		
Employee	CurrentFlag	13	bit	No		
Employee	rowguid	14	uniqueidentifier	No		
Employee	ModifiedDate	15	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
EmployeeDepartmentHistory	BusinessEntityID	1	int	No	PK	Identity
EmployeeDepartmentHistory	DepartmentID	2	smallint	No		
EmployeeDepartmentHistory	ShiftID	3	tinyint	No		
EmployeeDepartmentHistory	ShiftDate	4	date	No		
EmployeeDepartmentHistory	EndDate	5	date	Yes		
EmployeeDepartmentHistory	ModifiedDate	6	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
EmployeePayHistory	BusinessEntityID	1	int	No	PK	Identity
EmployeePayHistory	RateChangeDate	2	datetime	No		
EmployeePayHistory	Rate	3	money	No		
EmployeePayHistory	PayFrequency	4	tinyint	No		
EmployeePayHistory	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
JobCandidate	JobCandidateID	1	int	No	PK	Identity
JobCandidate	BusinessEntityID	2	int	Yes		
JobCandidate	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Shift	ShiftID	1	tinyint	No	PK	Identity
Shift	Name	2	nvarchar(50)	No		
Shift	StartTime	3	time(7)	No		
Shift	EndTime	4	time(7)	No		
Shift	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Address	AddressID	1	int	No	PK	Identity
Address	AddressLine1	2	nvarchar(60)	No		
Address	AddressLine2	3	nvarchar(60)	Yes		
Address	City	4	nvarchar(30)	No		
Address	StateProvinceID	5	int	No		
Address	PostalCode	6	nvarchar(15)	No		
Address	SpatialLocation	7	geography	Yes		
Address	rowguid	8	uniqueidentifier	No		
Address	ModifiedDate	9	datetime	Yes		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
AddressType	AddressTypeID	1	int	Yes	PK	Identity
AddressType	Name	2	nvarchar(50)	Yes		
AddressType	rowguid	3	uniqueidentifier	Yes		
AddressType	ModifiedDate	4	datetime	Yes		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
BusinessEntity	BusinessEntityID	1	int	No	PK	Identity
BusinessEntity	rowguid	2	uniqueidentifier	No		
BusinessEntity	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
BusinessEntityAddress	BusinessEntityID	1	int	No	PK	Identity
BusinessEntityAddress	AddressID	2	int	No		
BusinessEntityAddress	AddressTypeID	3	int	No		
BusinessEntityAddress	rowguid	4	uniqueidentifier	No		
BusinessEntityAddress	ModifiedDate	5	datetime	No		
BusinessEntityContact	BusinessEntityID	1	int	No	PK	Identity
BusinessEntityContact	PersonID	2	int	No	PK	Identity
BusinessEntityContact	ContactTypeID	3	int	No	PK	Identity
BusinessEntityContact	rowguid	4	uniqueidentifier	No		
BusinessEntityContact	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ContactType	ContactTypeID	1	int	No	PK	Identity
ContactType	Name	2	nvarchar(50)	No		
ContactType	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
CountryRegion	CountryRegionCode	1	nvarchar(3)	No	PK	Identity
CountryRegion	Name	2	nvarchar(50)	No		
CountryRegion	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
EmailAddress	BusinessEntityID	1	int	No	PK	Identity
EmailAddress	EmailAddressID	2	int	No	PK	Identity
EmailAddress	EmailAddress	3	varchar(50)	Yes		
EmailAddress	rowguid	4	uniqueidentifier	No		
EmailAddress	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Password	BusinessEntityID	1	int	No	PK	Identity
Password	PasswordHash	2	varchar(128)	No		
Password	PasswordSalt	3	varchar(10)	No		
Password	rowguid	4	uniqueidentifier	No		
Password	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Person	BusinessEntityID	1	int	No	PK	Identity
Person	PersonType	2	nchar(2)	No		
Person	NameStyle	3	bit	No		
Person	Title	4	nvarchar(8)	Yes		
Person	FirstName	5	nvarchar(50)	No		
Person	MiddleName	6	nvarchar(50)	No		
Person	LastName	7	nvarchar(50)	No		
Person	Suffix	8	nvarchar(10)	Yes		
Person	EmailPromotion	9	int	No		
Person	rowguid	10	uniqueidentifier	No		
Person	ModifiedDate	11	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
PersonPhone	BusinessEntityID	1	int	No	PK	Identity
PersonPhone	PhoneNumber	2	nvarchar(25)	No	PK	Identity
PersonPhone	PhoneNumberTypeID	3	int	No	PK	Identity
PersonPhone	ModifiedDate	4	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
PhoneNumberType	PhoneNumberTypeID	1	int	No	PK	Identity
PhoneNumberType	Name	2	nvarchar(50)	No		
PhoneNumberType	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
StateProvince	StateProvinceID	1	int	No	PK	Identity
StateProvince	StateProvinceCode	2	nchar(3)	No		
StateProvince	CountryRegionCode	3	nvarchar(3)	No		
StateProvince	IsOnlyStateProvinceFlag	4	bit	No		
StateProvince	Name	5	nvarchar(50)	No		
StateProvince	TerritoryID	6	int	No		
StateProvince	rowguid	7	uniqueidentifier	No		
StateProvince	ModifiedDate	8	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
BillOfMaterials	BillOfMaterialsID	1	int	No	PK	Identity
BillOfMaterials	ProductAssemblyID	2	int	Yes		
BillOfMaterials	ComponentID	3	int	No		
BillOfMaterials	StartDate	4	datetime	No		
BillOfMaterials	EndDate	5	datetime	Yes		
BillOfMaterials	UnitMeasureCode	6	nchar(3)	No		
BillOfMaterials	BOMLevel	7	smallint	No		
BillOfMaterials	PerAssemblyQty	8	decimal(8,2)	No		
BillOfMaterials	ModifiedDate	9	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Culture	CultureID	1	nchar(6)	No	PK	Identity
Culture	Name	2	nvarchar(50)	No		
Culture	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Document	DocumentNode	1	hierarchyid	No	PK	Identity
Document	DocumentLevel	2	smallint	Yes		
Document	Title	3	nvarchar(50)	No		
Document	Owner	4	int	No		
Document	FolderFlag	5	bit	No		
Document	FileName	6	nvarchar(400)	No		
Document	FileExtension	7	nvarchar(8)	No		
Document	Revision	8	nchar(5)	No		
Document	ChangeNumber	9	int	No		
Document	Status	10	tinyint	No		
Document	DocumentSummary	11	nvarchar(max)	Yes		
Document	Document	12	varbinary(max)	Yes		
Document	rowguid	13	uniqueidentifier	No		
Document	ModifiedDate	14	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Illustration	IllustrationID	1	int	No	PK	Identity
Illustration	ModifiedDate	2	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Location	LocationID	1	smallint	No	PK	Identity
Location	Name	2	nvarchar(50)	No		
Location	CostRate	3	smallmoney	No		
Location	Availability	4	decimal(8,2)	No		
Location	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductCategory	ProductCategoryID	1	int	No	PK	Identity
ProductCategory	Name	2	nvarchar(50)	No		
ProductCategory	rowguid	3	uniqueidentifier	No		
ProductCategory	ModifiedDate	4	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductCostHistory	ProductID	1	int	No	PK	Identity
ProductCostHistory	StartDate	2	datetime	No	PK	Identity
ProductCostHistory	EndDate	3	datetime	Yes		
ProductCostHistory	StandardCost	4	money	No		
ProductCostHistory	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductDescription	ProductDescriptionID	1	int	No	PK	Identity
ProductDescription	Description	2	nvarchar(400)	No		
ProductDescription	rowguid	3	uniqueidentifier	No		
ProductDescription	ModifiedDate	4	datetime	No		
ProductDocument	ProductID	1	int	No	PK	Identity
ProductDocument	DocumentNode	2	hierarchyid	No	PK	Identity
ProductDocument	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Product	ProductID	1	int	No	PK	Identity
Product	Name	2	nvarchar(50)	No		
Product	ProductNumber	3	nvarchar(25)	No		
Product	MakeFlag	4	bit	No		
Product	FinishedGoodsFlag	5	bit	No		
Product	Color	6	nvarchar(15)	Yes		
Product	SafetyStockLevel	7	smallint	No		
Product	ReorderPoint	8	smallint	No		
Product	StandardCost	9	money	No		
Product	ListPrice	10	money	No		
Product	Size	11	nvarchar(5)	Yes		
Product	SizeUnitMeasure	12	nchar(3)	Yes		
Product	WeightUnitMeasureCode	13	nchar(3)	Yes		
Product	Weight	14	decimal(8,2)	Yes		
Product	DaysToManufacture	15	int	No		
Product	ProductLine	16	nchar(2)	Yes		
Product	Class	17	nchar(2)	Yes		
Product	Style	18	nchar(2)	Yes		
Product	ProductSubCategory	19	int	Yes		
Product	ProductModelID	20	int	Yes		
Product	SellStartDate	21	datetime	No		
Product	SellEndDate	22	datetime	Yes		
Product	DiscontinuedDate	23	datetime	Yes		
Product	rowguid	24	uniqueidentifier	No		
Product	ModifiedDate	25	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductInventory	ProductID	1	int	No	PK	Identity
ProductInventory	LocationID	2	smallint	No	PK	Identity
ProductInventory	Shelf	3	nvarchar(10)	No		
ProductInventory	Bin	4	tinyint	No		
ProductInventory	Quantity	5	smallint	No		
ProductInventory	rowguid	6	uniqueidentifier	No		
ProductInventory	ModifiedDate	7	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductListPriceHistory	ProductID	1	int	No	PK	Identity
ProductListPriceHistory	StartDate	2	datetime	No	PK	Identity
ProductListPriceHistory	EndDate	3	datetime	Yes		
ProductListPriceHistory	ListPrice	4	money	No		
ProductListPriceHistory	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductModel	ProductModelID	1	int	No	PK	Identity
ProductModel	Name	2	nvarchar(50)	No		
ProductModel	rowguid	3	uniqueidentifier	No		
ProductModel	ModifiedDate	4	datetime	No		



TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductModelIllustration	ProductModelID	1	int	No	PK	Identity
ProductModelIllustration	IllustrationID	2	int	No	PK	Identity
ProductModelIllustration	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductModelProductDescription	ProductModelID	1	int	No	PK	Identity
ProductModelProductDescription	ProductDescriptionID	2	int	No	PK	Identity
ProductModelProductDescription	CultureID	3	nchar(6)	No		
ProductModelProductDescription	ModifiedDate	4	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductPhoto	ProductPhotoID	1	int	No	PK	Identity
ProductPhoto	ThumbNailPhoto	2	varbinary(max)	Yes		
ProductPhoto	ThumbNailPhotoFileName	3	nvarchar(50)	Yes		
ProductPhoto	LargePhoto	4	varbinary(max)	Yes		
ProductPhoto	LargePhotoFileName	5	nvarchar(50)	Yes		
ProductPhoto	ModifiedDate	6	date	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductProductPhoto	ProductID	1	int	No	PK	Identity
ProductProductPhoto	ProductPhotoID	2	int	No	PK	Identity
ProductProductPhoto	Primary	3	bit	No		
ProductProductPhoto	ModifiedDate	4	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductReview	ProductReviewID	1	int	No	PK	Identity
ProductReview	ProductID	2	int	No		
ProductReview	ReviewerName	3	nvarchar(50)	No		
ProductReview	ReviewDate	4	datetime	No		
ProductReview	EmailAddress	5	nvarchar(50)	No		
ProductReview	Rating	6	int	No		
ProductReview	Comments	7	nvarchar(3850)	Yes		
ProductReview	ModifiedDate	8	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductSubCategory	ProductSubCategoryID	1	int	No	PK	Identity
ProductSubCategory	ProductCategoryID	2	int	No		
ProductSubCategory	Name	3	nvarchar(50)	No		
ProductSubCategory	rowguid	4	uniqueidentifier	No		
ProductSubCategory	ModifiedDate	5	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ScrapReason	ScrapReasonID	1	smallint	No	PK	Identity
ScrapReason	Name	2	nvarchar(50)	No		
ScrapReason	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
TransactionHistory	TransactionID	1	int	No	PK	Identity
TransactionHistory	ProductID	2	int	No		
TransactionHistory	ReferenceOrderID	3	int	No		
TransactionHistory	ReferenceOrderLineID	4	int	No		
TransactionHistory	TransactionDate	5	datetime	No		
TransactionHistory	TransactionType	6	nchar(1)	No		
TransactionHistory	Quantity	7	int	No		
TransactionHistory	ActualCost	8	money	No		
TransactionHistory	ModifiedDate	9	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
UnitMeasure	UnitMeasureCode	1	nchar(3)	No	PK	Identity
UnitMeasure	Name	2	nvarchar(50)	No		
UnitMeasure	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
WorkOrder	WorkOrderID	1	int	No	PK	Identity
WorkOrder	ProductID	2	int	No		
WorkOrder	OrderQty	3	int	No		
WorkOrder	StockedQty	4	smallint	Yes		
WorkOrder	ScrappedQty	5	smallint	No		
WorkOrder	StartDate	6	datetime	No		
WorkOrder	EndDate	7	datetime	Yes		
WorkOrder	DueDate	8	datetime	No		
WorkOrder	ScrapReasonID	9	smallint	Yes		
WorkOrder	ModifiedDate	10	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
WorkOrderRouting	WorkOrderID	1	int	No	PK	Identity
WorkOrderRouting	ProductID	2	int	No	PK	Identity
WorkOrderRouting	OperationSequence	3	smallint	No	PK	Identity
WorkOrderRouting	LocationID	4	smallint	No		
WorkOrderRouting	ScheduledStartDate	5	datetime	No		
WorkOrderRouting	ScheduledEndDate	6	datetime	No		
WorkOrderRouting	ActualStartDate	7	datetime	Yes		
WorkOrderRouting	ActualEndDate	8	datetime	Yes		
WorkOrderRouting	ActualResourceHrs	9	decimal(9,4)	Yes		
WorkOrderRouting	PlannedCost	10	money	No		
WorkOrderRouting	ActualCost	11	money	Yes		
WorkOrderRouting	ModifiedDate	12	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ProductVendor	ProductID	1	int	No	PK	Identity
ProductVendor	BusinessEntityID	2	int	No	PK	Identity
ProductVendor	AverageLeadTime	3	int	No		
ProductVendor	StandardPrice	4	money	No		
ProductVendor	LastReceiptCost	5	money	Yes		
ProductVendor	LastReceiptDate	6	datetime	Yes		
ProductVendor	MinOrderQty	7	int	No		
ProductVendor	MaxOrderQty	8	int	No		
ProductVendor	OnOrderQty	9	int	Yes		
ProductVendor	UnitMeasureCode	10	nchar(3)	No		
ProductVendor	ModifiedDate	11	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
PurchaseOrderDetail	PurchaseOrderID	1	int	No	PK	Identity
PurchaseOrderDetail	PurchaseOrderDetailID	2	int	No	PK	Identity
PurchaseOrderDetail	DueDate	3	datetime	No		
PurchaseOrderDetail	OrderQty	4	smallint	No		
PurchaseOrderDetail	ProductID	5	int	No		
PurchaseOrderDetail	UnitPrice	6	money	No		
PurchaseOrderDetail	LineTotal	7	money	Yes		
PurchaseOrderDetail	ReceivedQty	8	decimal(8,2)	No		
PurchaseOrderDetail	RejectedQty	9	decimal(8,2)	No		
PurchaseOrderDetail	StockedQty	10	int	Yes		
PurchaseOrderDetail	ModifiedDate	11	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
PurchaseOrderHeader	PurchaseOrderID	1	int	No	PK	Identity
PurchaseOrderHeader	RevisionNumber	2	tinyint	No		
PurchaseOrderHeader	Status	3	tinyint	No		
PurchaseOrderHeader	EmployeeID	4	int	No		
PurchaseOrderHeader	VendorID	5	int	No		
PurchaseOrderHeader	ShipMethodID	6	datetime	No		
PurchaseOrderHeader	OrderDate	7	datetime	No		
PurchaseOrderHeader	ShipDate	8	money	Yes		
PurchaseOrderHeader	SubTotal	9	money	No		
PurchaseOrderHeader	TaxAmt	10	money	No		
PurchaseOrderHeader	Freight	11	money	No		
PurchaseOrderHeader	TotalDue	12	money	Yes		
PurchaseOrderHeader	ModifiedDate	13	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ShipMethod	ShipMethodID	1	int	No	PK	Identity
ShipMethod	Name	2	nvarchar(50)	No		
ShipMethod	ShipBase	3	money	No		
ShipMethod	ShipRate	4	money	No		
ShipMethod	rowguid	5	uniqueidentifier	No		
ShipMethod	ModifiedDate	6	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Vendor	BusinessEntityID	1	int	No	PK	Identity
Vendor	AccountNumber	2	nvarchar(15)	No		
Vendor	Name	3	nvarchar(50)	No		
Vendor	CreditRating	4	tinyint	No		
Vendor	PreferredVendorStatus	5	bit	No		
Vendor	ActiveFlag	6	bit	No		
Vendor	PurchasingWebServiceURL	7	nvarchar(1024)	Yes		
Vendor	ModifiedDate	8	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
CountryRegionCurrency	CountryRegionCode	1	nvarchar(3)	No	PK	Identity
CountryRegionCurrency	CurrencyCode	2	nchar(3)	No	PK	Identity
CountryRegionCurrency	ModifiedDate	3	datetime	No		
CreditCard	CreditCardID	1	int	No	PK	Identity
CreditCard	CardType	2	nvarchar(50)	No		
CreditCard	CardNumber	3	nvarchar(25)	No		
CreditCard	ExpMonth	4	tinyint	No		
CreditCard	ExpYear	5	smallint	No		
CreditCard	ModifiedDate	6	datetime	No		
Currency	CurrencyCode	1	nchar(3)	No	PK	Identity
Currency	Name	2	nvarchar(50)	No		
Currency	ModifiedDate	3	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
CurrencyRate	CurrencyRateID	1	int	No	PK	Identity
CurrencyRate	CurrencyRateDate	2	datetime	No		
CurrencyRate	FromCurrencyCode	3	nchar(3)	No		
CurrencyRate	ToCurrencyCode	4	nchar(3)	No		
CurrencyRate	AverageRate	5	money	No		
CurrencyRate	EndOfDateRate	6	money	No		
CurrencyRate	ModifiedDate	7	datetime	No		
Customer	CustomerID	1	int	No	PK	Identity
Customer	PersonID	2	int	Yes		
Customer	StoreID	3	int	Yes		
Customer	TerritoryID	4	int	Yes		
Customer	AccountNumber	5	varchar(10)	No		
Customer	rowguid	6	uniqueidentifier	No		
Customer	ModifiedDate	7	datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
CustomerDemographics	CustomerSK	1	int	No	PK	Identity
CustomerDemographics	CustomerID	2	int	No		
CustomerDemographics	TotalFirstPurchaseYTD	3	numeric(15,2)	Yes		
CustomerDemographics	DateFirstPurchase	4	Date	Yes		
CustomerDemographics	BirthDate	5	date	Yes		
CustomerDemographics	MaritalStatus	6	nvarchar(1)	Yes		
CustomerDemographics	YearlyIncome	7	nvarchar(30)	Yes		
CustomerDemographics	Gender	8	nvarchar(1)	Yes		
CustomerDemographics	TotalChildren	9	int	Yes		
CustomerDemographics	NumberChildrenAtHome	10	int	Yes		
CustomerDemographics	Education	11	nvarchar(30)	Yes		
CustomerDemographics	Occupation	12	nvarchar(30)	Yes		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
PersonCreditCard	BusinessEntityID	1	int	No	PK	Identity
PersonCreditCard	CreditCardID	2	int	No	PK	
PersonCreditCard	ModifiedDate	3	datetime	No		
SalesOrderDetail	SalesOrderID	1	int	no	PK	Identity
SalesOrderDetail	SalesOrderDetailID	2	int	No	PK	
SalesOrderDetail	CarrierTrackingNumber	3	nvarchar(25)	Yes		
SalesOrderDetail	OrderQty	4	smallint	no		
SalesOrderDetail	ProductID	5	int	No		
SalesOrderDetail	SpecialOfferID	6	int	No		
SalesOrderDetail	UnitPrice	7	money	No		
SalesOrderDetail	UnitPriceDiscount	8	money	No		
SalesOrderDetail	LineTotal	9	money	Yes		
SalesOrderDetail	rowguid	10	uniqueidentifier	no		
SalesOrderDetail	ModifiedDate	11	datetime	no		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
ShoppingCartItem	ShoppingCartItemID		int	No		
ShoppingCartItem	ShoppingCartID		nvarchar(50)	No		
ShoppingCartItem	Quantity		int	No		
ShoppingCartItem	ProductID		int	No		
ShoppingCartItem	DateCreated		datetime	No		
ShoppingCartItem	ModifiedDate		datetime	No		
SpecialOffer	SpecialOfferID		int	No	PK	Identity
SpecialOffer	Description		nvarchar(255)	No		
SpecialOffer	DiscountPct		smallmoney	No		
SpecialOffer	Type		nvarchar(50)	No		
SpecialOffer	Category		nvarchar(50)	No		
SpecialOffer	StartDate		datetime	No		
SpecialOffer	EndDate		datetime	No		
SpecialOffer	MinQty		int	No		
SpecialOffer	MaxQty		int	Yes		
SpecialOffer	rowguid		uniqueidentifier	No		
SpecialOffer	ModifiedDate		datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
SalesOrderHeader	SalesOrderID		Int	No	PK	Identity
SalesOrderHeader	RevisionNumber		tinyint	No		
SalesOrderHeader	OrderDate		date	No		
SalesOrderHeader	DueDate		date	No		
SalesOrderHeader	ShipDate		date	Yes		
SalesOrderHeader	Status		tinyint	No		
SalesOrderHeader	OnlineOrderFlag		bit	No		
SalesOrderHeader	SalesOrderNumber		nvarchar(25)	No		
SalesOrderHeader	PurchaseOrderNumber		nvarchar(25)	Yes		
SalesOrderHeader	AccountNumber		nvarchar(15)	Yes		
SalesOrderHeader	CustomerID		int	No		
SalesOrderHeader	SalesPersonID		int	No		
SalesOrderHeader	TerritoryID		int	yes		
SalesOrderHeader	BillToAddressID		int	No		
SalesOrderHeader	ShipToAddressID		int	No		
SalesOrderHeader	ShipMethodID		int	No		
SalesOrderHeader	CreditCardID		int	yes		
SalesOrderHeader	CreditCardApprovalCode		varchar(15)	No		
SalesOrderHeader	CurrencyRateID		int	No		
SalesOrderHeader	SubTotal		money	yes		
SalesOrderHeader	TaxAmt		money	yes		
SalesOrderHeader	Freight		money	Yes		
SalesOrderHeader	TotalDue		money	yes		
SalesOrderHeader	Comments		nvarchar(15)	Yes		
SalesOrderHeader	rowguid		uniqueidentifier	No		
SalesOrderHeader	ModifiedDate		datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
SalesOrderHeaderSalesReason	SalesOrderID		int	No		
SalesOrderHeaderSalesReason	SalesReasonId		int	No		
SalesOrderHeaderSalesReason	ModifiedDate		datetime	No		
SalesPerson	BusinessEntityID		int	No	PK	Identity
SalesPerson	TerritoryID		int	Yes	PK	Identity
SalesPerson	SalesQuota		money	Yes		
SalesPerson	Bonus		money	No		
SalesPerson	CommissionPct		smallmoney	No		
SalesPerson	SalesYTD		money	No		
SalesPerson	SalesLastYear		money	No		
SalesPerson	rowguid		uniqueidentifier	No		
SalesPerson	ModifiedDate		datetime	No		
SalespersonQuotaHistory	BusinessEntityID		int	No	PK	Identity
SalespersonQuotaHistory	QuotaDate		datetime	No		
SalespersonQuotaHistory	SalesQuota		money	No		
SalespersonQuotaHistory	rowguid		uniqueidentifier	No		
SalespersonQuotaHistory	ModifiedDate		datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
SalesPerson	BusinessEntityID		int	No	PK	Identity
SalesReason	SalesReasonId		int	No	PK	Identity
SalesReason	Name		nvarchar(50)	No		
SalesReason	ReasonType		nvarchar(50)	No		
SalesReason	ModifiedDate		datetime	No		
SalesTaxRate	SalesTaxRateId		int	No		
SalesTaxRate	StateProvinceID		int	No		
SalesTaxRate	TaxType		tinyint	No		
SalesTaxRate	TaxRate		smallmoney	No		
SalesTaxRate	Name		nvarchar(50)	No		
SalesTaxRate	rowguid		uniqueidentifier	No		
SalesTaxRate	ModifiedDate		datetime	No		
SalesTerritory	TerritoryID		int	No	PK	Identity
SalesTerritory	Name		nvarchar(50)	No		
SalesTerritory	CountryRegionCode		nvarchar(3)	No		
SalesTerritory	Group		nvarchar(50)	No		
SalesTerritory	SalesYTD		money	No		
SalesTerritory	SalesLastYear		money	No		
SalesTerritory	CostYTD		money	No		
SalesTerritory	CostLastYear		money	No		
SalesTerritory	rowguid		uniqueidentifier	No		
SalesTerritory	ModifiedDate		datetime	No		
SalesTerritoryHistory	BusinessEntityID		int	No	PK	Identity
SalesTerritoryHistory	TerritoryID		int	No	PK	Identity
SalesTerritoryHistory	StartDate		datetime	No		
SalesTerritoryHistory	EndDate		datetime	Yes		
SalesTerritoryHistory	rowguid		uniqueidentifier	No		
SalesTerritoryHistory	ModifiedDate		datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
SpecialOfferProduct	SpecialOfferID		int	No	PK	Identity
SpecialOfferProduct	ProductID		int	No	PK	Identity
SpecialOfferProduct	rowguid		uniqueidentifier	No		
SpecialOfferProduct	ModifiedDate		datetime	No		

TableName	ColumnName	Column Order	DataType	Nullable	Primary Key	Identity Column
Store	BusinessEntityID		int	No	PK	Identity
Store	Name		varchar(50)	No		
Store	SalesPersonID		int	Yes		
Store	AnnualSales		decimal(19,4)	Yes		
Store	AnnualRevenue		decimal(19,4)	Yes		
Store	BankName		varchar(50)	Yes		
Store	BusinessType		varchar(5)	Yes		
Store	YearOpened		int	Yes		
Store	Speciality		varchar(50)	Yes		
Store	SquareFeet		int	Yes		
Store	Brands		varchar(30)	Yes		
Store	Internet		varchar(30)	Yes		
Store	NumberEmployees		int	Yes		
Store	ModifiedDate		datetime2(0)	No		

# Target: AdventureWorksDataWarehouse

Schema	Table Name	Column Name
dbo	DimCurrency	CurrencySK
dbo	DimCurrency	Currency AlternateSK
dbo	DimCurrency	CurrencyName
dbo	DimCurrency	SOR_ID
dbo	DimCurrency	SOR_LoadDate
dbo	DimCurrency	SOR_UpdateDate
dbo	DimCurrency	DI_Job_ID
dbo	DimCurrency	DI_Create_Date
dbo	DimCurrency	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimDate	DateSK
dbo	DimDate	FullDateAK
dbo	DimDate	DayNumberOfWeek
dbo	DimDate	DayNameOfWeek
dbo	DimDate	DayNameOfWeekAbbr
dbo	DimDate	DayNumberOfMonth
dbo	DimDate	DayNumberOfYear
dbo	DimDate	WeekNumberOfYear
dbo	DimDate	MonthName
dbo	DimDate	MonthNameAbbr
dbo	DimDate	MonthNumberOfYear
dbo	DimDate	CalendarQuarter
dbo	DimDate	CalendarYear
dbo	DimDate	DI_Job_ID
dbo	DimDate	DI_Create_Date
dbo	DimDate	DI_Modified_Date



Schema	Table Name	Column Name
dbo	DimCustomerPerson	CustomerSK
dbo	DimCustomerPerson	GeoSK
dbo	DimCustomerPerson	CustomerAlternateSK
dbo	DimCustomerPerson	Title
dbo	DimCustomerPerson	FirstName
dbo	DimCustomerPerson	MiddleName
dbo	DimCustomerPerson	LastName
dbo	DimCustomerPerson	NameStyle
dbo	DimCustomerPerson	BirthDate
dbo	DimCustomerPerson	MaritalStatus
dbo	DimCustomerPerson	Suffix
dbo	DimCustomerPerson	Gender
dbo	DimCustomerPerson	EmailAddress
dbo	DimCustomerPerson	YearlyIncome
dbo	DimCustomerPerson	TotalChildren
dbo	DimCustomerPerson	NumberChildrenAtHome
dbo	DimCustomerPerson	Education
dbo	DimCustomerPerson	Occupation
dbo	DimCustomerPerson	HouseOwnerFlag
dbo	DimCustomerPerson	NumberCarsOwned
dbo	DimCustomerPerson	AddressLine 1
dbo	DimCustomerPerson	AddressLine 2
dbo	DimCustomerPerson	Phone
dbo	DimCustomerPerson	DateFirstPurchase
dbo	DimCustomerPerson	CommuteDistance
dbo	DimCustomerPerson	SOR_ID
dbo	DimCustomerPerson	SOR_LoadDate
dbo	DimCustomerPerson	SOR_UpdateDate
dbo	DimCustomerPerson	DI_Job_ID
dbo	DimCustomerPerson	DI_Create_Date
dbo	DimCustomerPerson	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimEmployee	EmployeeSK
dbo	DimEmployee	BusinessEntityID
dbo	DimEmployee	EmployeeNationalID
dbo	DimEmployee	ManagerSK
dbo	DimEmployee	ManagerBusinessEntityID
dbo	DimEmployee	ManagerEmployeeNationalID
dbo	DimEmployee	GeoSK
dbo	DimEmployee	SalesTerritorySK
dbo	DimEmployee	AddressLine 1
dbo	DimEmployee	AddressLine 2
dbo	DimEmployee	AddressType
dbo	DimEmployee	Purchase_Buyer
dbo	DimEmployee	Title
dbo	DimEmployee	FirstName
dbo	DimEmployee	MiddleName
dbo	DimEmployee	LastName
dbo	DimEmployee	NameStyle
dbo	DimEmployee	JobTitle
dbo	DimEmployee	HireDate
dbo	DimEmployee	BirthDate
dbo	DimEmployee	LoginID
dbo	DimEmployee	EmailAddress
dbo	DimEmployee	Phone
dbo	DimEmployee	PhoneNumberType
dbo	DimEmployee	MaritalStatus
dbo	DimEmployee	SalariedFlag
dbo	DimEmployee	Gender
dbo	DimEmployee	PayFrequency
dbo	DimEmployee	BaseRate
dbo	DimEmployee	VacationHours
dbo	DimEmployee	SickLeaveHours
dbo	DimEmployee	CurrentFlag
dbo	DimEmployee	SalesPersonFlag
dbo	DimEmployee	DepartmentName
dbo	DimEmployee	StartDate
dbo	DimEmployee	EndDate
dbo	DimEmployee	Status
dbo	DimEmployee	SOR_ID
dbo	DimEmployee	SOR_LoadDate
dbo	DimEmployee	SOR_UpdateDate
dbo	DimEmployee	DI_Job_ID
dbo	DimEmployee	DI_Create_Date
dbo	DimEmployee	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimGeography	GeoSK
dbo	DimGeography	City
dbo	DimGeography	StateProvinceCode
dbo	DimGeography	StateProvinceName
dbo	DimGeography	IsOnlyStateProvinceFlag
dbo	DimGeography	CountryRegionCode
dbo	DimGeography	CountryRegionName
dbo	DimGeography	PostalCode
dbo	DimGeography	SalesTerritorySK
dbo	DimGeography	SOR_ID
dbo	DimGeography	SOR_LoadDate
dbo	DimGeography	SOR_UpdateDate
dbo	DimGeography	DI_Job_ID
dbo	DimGeography	DI_Create_Date
dbo	DimGeography	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimLocation	LocationSK
dbo	DimLocation	LocationID
dbo	DimLocation	LocationName
dbo	DimLocation	CostRate
dbo	DimLocation	Availability
dbo	DimLocation	ModifiedDate
dbo	DimLocation	SOR_ID
dbo	DimLocation	SOR_LoadDate
dbo	DimLocation	SOR_UpdateDate
dbo	DimLocation	DI_Job_ID
dbo	DimLocation	DI_Create_Date
dbo	DimLocation	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimPayHistory	PayHistorySK
dbo	DimPayHistory	EmployeeSK
dbo	DimPayHistory	Rate
dbo	DimPayHistory	PayFrequency
dbo	DimPayHistory	ModifiedDate
dbo	DimPayHistory	scd_start
dbo	DimPayHistory	scd_end
dbo	DimPayHistory	scd_version
dbo	DimPayHistory	scd_active
dbo	DimPayHistory	SOR_ID
dbo	DimPayHistory	DI_Job_ID
dbo	DimPayHistory	DI_Create_Date
dbo	DimPayHistory	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimProducts_Purchased	ProductPurchasedSK
dbo	DimProducts_Purchased	ProductID
dbo	DimProducts_Purchased	ProductNumber
dbo	DimProducts_Purchased	ProductName
dbo	DimProducts_Purchased	ProductSubcategoryID
dbo	DimProducts_Purchased	ProductSubcategoryName
dbo	DimProducts_Purchased	ProductCategoryID
dbo	DimProducts_Purchased	ProductCategoryName
dbo	DimProducts_Purchased	ProductModelId
dbo	DimProducts_Purchased	modelName
dbo	DimProducts_Purchased	FinishedGoodsFlag
dbo	DimProducts_Purchased	MakeFlag
dbo	DimProducts_Purchased	StandardCost
dbo	DimProducts_Purchased	ListPrice
dbo	DimProducts_Purchased	ProductLine
dbo	DimProducts_Purchased	ProductClass
dbo	DimProducts_Purchased	ProductStyle
dbo	DimProducts_Purchased	WeightUnitMeasureCode
dbo	DimProducts_Purchased	SizeUnitMeasureCode
dbo	DimProducts_Purchased	ProductColor
dbo	DimProducts_Purchased	SafetyStockLevel
dbo	DimProducts_Purchased	ReorderPoint
dbo	DimProducts_Purchased	ProductSize
dbo	DimProducts_Purchased	ProductWeight
dbo	DimProducts_Purchased	DaysToManufacture
dbo	DimProducts_Purchased	SellStartDate
dbo	DimProducts_Purchased	SellEndDate
dbo	DimProducts_Purchased	DiscontinuedDate
dbo	DimProducts_Purchased	SOR_ID
dbo	DimProducts_Purchased	SOR_LoadDate
dbo	DimProducts_Purchased	SOR_UpdateDate
dbo	DimProducts_Purchased	DI_Job_ID
dbo	DimProducts_Purchased	DI_Create_Date
dbo	DimProducts_Purchased	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimProducts_All	ProductSK
dbo	DimProduct_All	ProductID
dbo	DimProduct_All	ProductNumber
dbo	DimProduct_All	ProductName
dbo	DimProduct_All	ProductSubcategoryID
dbo	DimProduct_All	ProductSubcategoryName
dbo	DimProduct_All	ProductCategoryID
dbo	DimProduct_All	ProductCategoryName
dbo	DimProduct_All	ProductModelId
dbo	DimProduct_All	modelName
dbo	DimProduct_All	FinishedGoodsFlag
dbo	DimProduct_All	MakeFlag
dbo	DimProduct_All	StandardCost
dbo	DimProduct_All	ListPrice
dbo	DimProduct_All	ProductLine
dbo	DimProduct_All	ProductClass
dbo	DimProduct_All	ProductStyle
dbo	DimProduct_All	WeightUnitMeasureCode
dbo	DimProduct_All	SizeUnitMeasureCode
dbo	DimProduct_All	ProductColor
dbo	DimProduct_All	SafetyStockLevel
dbo	DimProduct_All	ReorderPoint
dbo	DimProduct_All	ProductSize
dbo	DimProduct_All	ProductWeight
dbo	DimProduct_All	DaysToManufacture
dbo	DimProduct_All	SellStartDate
dbo	DimProduct_All	SellEndDate
dbo	DimProduct_All	DiscontinuedDate
dbo	DimProduct_All	SOR_ID
dbo	DimProduct_All	SOR_LoadDate
dbo	DimProduct_All	SOR_UpdateDate
dbo	DimProduct_All	DI_Job_ID
dbo	DimProduct_All	DI_Create_Date
dbo	DimProduct_All	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimProductVendor	ProductVendorSK
dbo	DimProductVendor	ProductPurchasedSK
dbo	DimProductVendor	VendorSK
dbo	DimProductVendor	ProductID
dbo	DimProductVendor	VendorID
dbo	DimProductVendor	AverageLeadTime
dbo	DimProductVendor	StandardPrice
dbo	DimProductVendor	LastReceiptCost
dbo	DimProductVendor	LastReceiptDateSK
dbo	DimProductVendor	LastReceiptDate
dbo	DimProductVendor	MinOrderQty
dbo	DimProductVendor	MaxOrderQty
dbo	DimProductVendor	OnOrderQty
dbo	DimProductVendor	UnitMeasureCode
dbo	DimProductVendor	SOR_ID
dbo	DimProductVendor	SOR_LoadDate
dbo	DimProductVendor	SOR_UpdateDate
dbo	DimProductVendor	DI_Job_ID
dbo	DimProductVendor	DI_Create_Date
dbo	DimProductVendor	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimPromotion	PromotionSK
dbo	DimPromotion	PromotionalternateSK
dbo	DimPromotion	PromotionName
dbo	DimPromotion	PromotionDiscountPct
dbo	DimPromotion	PromotionType
dbo	DimPromotion	PromotionCategory
dbo	DimPromotion	PromotionStartDate
dbo	DimPromotion	PromotionEndDate
dbo	DimPromotion	PromotionMinQty
dbo	DimPromotion	PromotionMaxQty
dbo	DimPromotion	SOR_ID
dbo	DimPromotion	SOR_LoadDate
dbo	DimPromotion	SOR_UpdateDate
dbo	DimPromotion	DI_Job_ID
dbo	DimPromotion	DI_Create_Date
dbo	DimPromotion	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimSalesTerritory	SalesTerritorySK
dbo	DimSalesTerritory	SalesTerritoryID
dbo	DimSalesTerritory	SalesTerritoryName
dbo	DimSalesTerritory	CountryRegionCode
dbo	DimSalesTerritory	SalesTerritoryGroup
dbo	DimSalesTerritory	SOR_ID
dbo	DimSalesTerritory	SOR_LoadDate
dbo	DimSalesTerritory	SOR_UpdateDate
dbo	DimSalesTerritory	DI_Job_ID
dbo	DimSalesTerritory	DI_Create_Date
dbo	DimSalesTerritory	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimScrapReason	ScrapReasonSK
dbo	DimScrapReason	ScraoReasonID
dbo	DimScrapReason	ScrapReasonName
dbo	DimScrapReason	SOR_ID
dbo	DimScrapReason	SOR_LoadDate
dbo	DimScrapReason	SOR_UpdateDate
dbo	DimScrapReason	DI_Job_ID
dbo	DimScrapReason	DI_Create_Date
dbo	DimScrapReason	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimShipMethod	ShipMethodSK
dbo	DimShipMethod	ShipMethodID
dbo	DimShipMethod	ShipMethodName
dbo	DimShipMethod	ShipBase
dbo	DimShipMethod	ShipRate
dbo	DimShipMethod	SOR_ID
dbo	DimShipMethod	SOR_LoadDate
dbo	DimShipMethod	SOR_UpdateDate
dbo	DimShipMethod	DI_Job_ID
dbo	DimShipMethod	DI_Create_Date
dbo	DimShipMethod	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimStore	ResellerSk
dbo	DimStore	ResellerID
dbo	DimStore	ResellerName
dbo	DimStore	SalesPersonID
dbo	DimStore	AddressName
dbo	DimStore	AddressType
dbo	DimStore	AddressLine1
dbo	DimStore	AddressLine2
dbo	DimStore	Title
dbo	DimStore	FirstName
dbo	DimStore	MiddleName
dbo	DimStore	LastName
dbo	DimStore	Suffix
dbo	DimStore	PhoneNumberType
dbo	DimStore	Phone
dbo	DimStore	EmailAddress
dbo	DimStore	EmailPromotion
dbo	DimStore	BusinessName
dbo	DimStore	AnnualSales
dbo	DimStore	AnnualRevenue
dbo	DimStore	BankName
dbo	DimStore	Businesstype
dbo	DimStore	YearOpened
dbo	DimStore	Speciality
dbo	DimStore	SquareFeets
dbo	DimStore	Brands
dbo	DimStore	Internet
dbo	DimStore	NumberEmployees
dbo	DimStore	SOR_ID
dbo	DimStore	SOR_LoadDate
dbo	DimStore	SOR_UpdateDate
dbo	DimStore	DI_Job_ID
dbo	DimStore	DI_Create_Date
dbo	DimStore	DI_Modified_Date



Schema	Table Name	Column Name
dbo	DimVendorContacts	VendorContacts_SK
dbo	DimVendorContacts	Person_BusinessEntityID
dbo	DimVendorContacts	VendorSK
dbo	DimVendorContacts	Vendor_BusinessEntityID
dbo	DimVendorContacts	ContactType
dbo	DimVendorContacts	Title
dbo	DimVendorContacts	FirstName
dbo	DimVendorContacts	MiddleName
dbo	DimVendorContacts	LastName
dbo	DimVendorContacts	Suffix
dbo	DimVendorContacts	PhoneNumber
dbo	DimVendorContacts	PhoneNumberType
dbo	DimVendorContacts	EmailAddress
dbo	DimVendorContacts	SOR_ID
dbo	DimVendorContacts	SOR_LoadDate
dbo	DimVendorContacts	SOR_UpdateDate
dbo	DimVendorContacts	DI_Job_ID
dbo	DimVendorContacts	DI_Create_Date
dbo	DimVendorContacts	DI_Modified_Date

Schema	Table Name	Column Name
dbo	DimVendors	VendorSK
dbo	DimVendors	BusinessEntityID
dbo	DimVendors	AccountNumber
dbo	DimVendors	VendorName
dbo	DimVendors	CreditRating
dbo	DimVendors	PreferredVendorStatus
dbo	DimVendors	ActiveFlag
dbo	DimVendors	PurchasingWebServiceURL
dbo	DimVendors	AddressTypeName
dbo	DimVendors	AddressLine1
dbo	DimVendors	AddressLine2
dbo	DimVendors	GeoSK
dbo	DimVendors	SOR_ID
dbo	DimVendors	SOR_LoadDate
dbo	DimVendors	SOR_UpdateDate
dbo	DimVendors	DI_Job_ID
dbo	DimVendors	DI_Create_Date
dbo	DimVendors	DI_Modified_Date

Schema	Table Name	Column Name
dbo	Fact_WorkOrder	WorkOrderSK
dbo	Fact_WorkOrder	WorkOrderID
dbo	Fact_WorkOrder	ProductSK
dbo	Fact_WorkOrder	OrderQty
dbo	Fact_WorkOrder	Stocked_Qty
dbo	Fact_WorkOrder	Scrapped_Qty
dbo	Fact_WorkOrder	WorkOrder_StartDateSK
dbo	Fact_WorkOrder	WorkOrder_EndDateSK
dbo	Fact_WorkOrder	WorkOrder_DueDateSK
dbo	Fact_WorkOrder	StartDate
dbo	Fact_WorkOrder	EndDate
dbo	Fact_WorkOrder	DueDate
dbo	Fact_WorkOrder	ScrapReasonSK
dbo	Fact_WorkOrder	SOR_ID
dbo	Fact_WorkOrder	SOR_LoadDate
dbo	Fact_WorkOrder	SOR_UpdateDate
dbo	Fact_WorkOrder	DI_Job_ID
dbo	Fact_WorkOrder	DI_Create_Date
dbo	Fact_WorkOrder	DI_Modified_Date

Schema	Table Name	Column Name
dbo	Fact_WorkOrderRejects	WorkOrderSK
dbo	Fact_WorkOrderRejects	WorkOrderID
dbo	Fact_WorkOrderRejects	ProductSK
dbo	Fact_WorkOrderRejects	OrderQty
dbo	Fact_WorkOrderRejects	Stocked_Qty
dbo	Fact_WorkOrderRejects	Scrapped_Qty
dbo	Fact_WorkOrderRejects	WorkOrder_StartDateSK
dbo	Fact_WorkOrderRejects	WorkOrder_EndDateSK
dbo	Fact_WorkOrderRejects	WorkOrder_DueDateSK
dbo	Fact_WorkOrderRejects	StartDate
dbo	Fact_WorkOrderRejects	EndDate
dbo	Fact_WorkOrderRejects	DueDate
dbo	Fact_WorkOrderRejects	ProductID
dbo	Fact_WorkOrderRejects	ScrapReason_SK
dbo	Fact_WorkOrderRejects	DI_Reject_SK
dbo	Fact_WorkOrderRejects	DI_Rejects
dbo	Fact_WorkOrderRejects	SOR_ID
dbo	Fact_WorkOrderRejects	SOR_LoadDate
dbo	Fact_WorkOrderRejects	SOR_UpdateDate
dbo	Fact_WorkOrderRejects	DI_Job_ID
dbo	Fact_WorkOrderRejects	DI_Create_Date
dbo	Fact_WorkOrderRejects	DI_Modified_Date

Schema	Table Name	Column Name
dbo	Fact_WorkOrderRouting	WorkOrderSK
dbo	Fact_WorkOrderRouting	ProductSK
dbo	Fact_WorkOrderRouting	OperrationSequence
dbo	Fact_WorkOrderRouting	LocationSK
dbo	Fact_WorkOrderRouting	ScheduledStartDate
dbo	Fact_WorkOrderRouting	ScheduledEndDate
dbo	Fact_WorkOrderRouting	ActualStartDate
dbo	Fact_WorkOrderRouting	ActualEndDate
dbo	Fact_WorkOrderRouting	ScheduledStartDateSK
dbo	Fact_WorkOrderRouting	ScheduledEndDateSK
dbo	Fact_WorkOrderRouting	ActualStartDateSK
dbo	Fact_WorkOrderRouting	ActualEndDateSK
dbo	Fact_WorkOrderRouting	ActualResourceHrs
dbo	Fact_WorkOrderRouting	PlannedCost
dbo	Fact_WorkOrderRouting	ActualCost
dbo	Fact_WorkOrderRouting	SOR_ID
dbo	Fact_WorkOrderRouting	SOR_LoadDate
dbo	Fact_WorkOrderRouting	SOR_UpdateDate
dbo	Fact_WorkOrderRouting	DI_Job_ID
dbo	Fact_WorkOrderRouting	DI_Create_Date
dbo	Fact_WorkOrderRouting	DI_Modified_Date

Schema	Table Name	Column Name
dbo	Fact_WorkOrderRouting_Rejects	WorkOrderSK
dbo	Fact_WorkOrderRouting_Rejects	ProductSK
dbo	Fact_WorkOrderRouting_Rejects	OperrationSequence
dbo	Fact_WorkOrderRouting_Rejects	LocationSK
dbo	Fact_WorkOrderRouting_Rejects	ScheduledStartDate
dbo	Fact_WorkOrderRouting_Rejects	ScheduledEndDate
dbo	Fact_WorkOrderRouting_Rejects	ActualStartDate
dbo	Fact_WorkOrderRouting_Rejects	ActualEndDate
dbo	Fact_WorkOrderRouting_Rejects	ScheduledStartDateSK
dbo	Fact_WorkOrderRouting_Rejects	ScheduledEndDateSK
dbo	Fact_WorkOrderRouting_Rejects	ActualStartDateSK
dbo	Fact_WorkOrderRouting_Rejects	ActualEndDateSK
dbo	Fact_WorkOrderRouting_Rejects	ActualResourceHrs
dbo	Fact_WorkOrderRouting_Rejects	PlannedCost
dbo	Fact_WorkOrderRouting_Rejects	ActualCost
dbo	Fact_WorkOrderRouting_Rejects	WorkOrderID
dbo	Fact_WorkOrderRouting_Rejects	ProductID
dbo	Fact_WorkOrderRouting_Rejects	LocationID
dbo	Fact_WorkOrderRouting_Rejects	DI_Rejects_SK
dbo	Fact_WorkOrderRouting_Rejects	DI_Rejects
dbo	Fact_WorkOrderRouting_Rejects	SOR_ID
dbo	Fact_WorkOrderRouting_Rejects	SOR_LoadDate
dbo	Fact_WorkOrderRouting_Rejects	SOR_UpdateDate
dbo	Fact_WorkOrderRouting_Rejects	DI_Job_ID
dbo	Fact_WorkOrderRouting_Rejects	DI_Create_Date
dbo	Fact_WorkOrderRouting_Rejects	DI_Modified_Date

Schema	Table Name	Column Name
dbo	Fact_InternetSales	InternetSalesSK
dbo	Fact_InternetSales	ProductSK
dbo	Fact_InternetSales	OrderDateSK
dbo	Fact_InternetSales	DueDateSK
dbo	Fact_InternetSales	ShipDateSK
dbo	Fact_InternetSales	CustomerSK
dbo	Fact_InternetSales	PromotionSK
dbo	Fact_InternetSales	CurrencySK
dbo	Fact_InternetSales	SalesTerritorySK
dbo	Fact_InternetSales	SalesOrderNumber
dbo	Fact_InternetSales	SalesOrderLineNumber
dbo	Fact_InternetSales	RevisionNumber
dbo	Fact_InternetSales	OrderQuantity
dbo	Fact_InternetSales	ExtendedAmount
dbo	Fact_InternetSales	DiscountAmount
dbo	Fact_InternetSales	TotalProductCost
dbo	Fact_InternetSales	SalesAmount
dbo	Fact_InternetSales	TaxAmt
dbo	Fact_InternetSales	Freight
dbo	Fact_InternetSales	CarrierTrackingNumber
dbo	Fact_InternetSales	CustomerPONumber
dbo	Fact_InternetSales	OrderDate
dbo	Fact_InternetSales	DueDate
dbo	Fact_InternetSales	ShipDate
dbo	Fact_InternetSales	SOR_ID
dbo	Fact_InternetSales	SOR_LoadDate
dbo	Fact_InternetSales	SOR_UpdateDate
dbo	Fact_InternetSales	DI_Job_ID
dbo	Fact_InternetSales	DI_Create_Date
dbo	Fact_InternetSales	DI_Modified_Date

Schema	Table Name	Column Name
dbo	FactInternetSales_Reject	InternetSalesSK
dbo	FactInternetSales_Reject	ProductSK
dbo	FactInternetSales_Reject	OrderDateSK
dbo	FactInternetSales_Reject	DueDateSK
dbo	FactInternetSales_Reject	ShipDateSK
dbo	FactInternetSales_Reject	CustomerSK
dbo	FactInternetSales_Reject	PromotionSK
dbo	FactInternetSales_Reject	CurrencySK
dbo	FactInternetSales_Reject	SalesTerritorySK
dbo	FactInternetSales_Reject	SalesOrderNumber
dbo	FactInternetSales_Reject	SalesOrderLineNumber
dbo	FactInternetSales_Reject	RevisionNumber
dbo	FactInternetSales_Reject	OrderQuantity
dbo	FactInternetSales_Reject	ExtendedAmount
dbo	FactInternetSales_Reject	DiscountAmount
dbo	FactInternetSales_Reject	TotalProductCost
dbo	FactInternetSales_Reject	SalesAmount
dbo	FactInternetSales_Reject	TaxAmt
dbo	FactInternetSales_Reject	Freight
dbo	FactInternetSales_Reject	CarrierTrackingNumber
dbo	FactInternetSales_Reject	CustomerPONumber
dbo	FactInternetSales_Reject	OrderDate
dbo	FactInternetSales_Reject	DueDate
dbo	FactInternetSales_Reject	ShipDate
dbo	FactInternetSales_Reject	SOR_ID
dbo	FactInternetSales_Reject	SOR_LoadDate
dbo	FactInternetSales_Reject	SOR_UpdateDate
dbo	FactInternetSales_Reject	DI_Job_ID
dbo	FactInternetSales_Reject	DI_Create_Date
dbo	FactInternetSales_Reject	DI_Modified_Date

dbo	Fact_Purchases	PurchaseSK
dbo	Fact_Purchases	PurchaseOrderID
dbo	Fact_Purchases	PurchaseOrderDetailID
dbo	Fact_Purchases	Status
dbo	Fact_Purchases	EmployeeSK
dbo	Fact_Purchases	VendorSK
dbo	Fact_Purchases	ShipMethodSK
dbo	Fact_Purchases	EmployeeID
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dbo	Fact_Purchases	OrderDate
dbo	Fact_Purchases	ShipDate
dbo	Fact_Purchases	ProductPurchasedSK
dbo	Fact_Purchases	SubTotal
dbo	Fact_Purchases	TaxAmt
dbo	Fact_Purchases	Freight
dbo	Fact_Purchases	TotalDue
dbo	Fact_Purchases	DueDate
dbo	Fact_Purchases	OrderQty
dbo	Fact_Purchases	UnitPrice
dbo	Fact_Purchases	LineTotal
dbo	Fact_Purchases	ReceivedQty
dbo	Fact_Purchases	RejectedQty
dbo	Fact_Purchases	StockedQty
dbo	Fact_Purchases	LineTaxAmount
dbo	Fact_Purchases	LineFrieght
dbo	Fact_Purchases	LineTotalDue
dbo	Fact_Purchases	SOR_ID
dbo	Fact_Purchases	SOR_LoadDate
dbo	Fact_Purchases	SOR_UpdateDate
dbo	Fact_Purchases	DI_Job_ID
dbo	Fact_Purchases	DI_Create_Date
dbo	Fact_Purchases	DI_Modified_Date

Schema	Table Name	Column Name
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dbo	Fact_Purchases_Rejects	PurchaseOrderID
dbo	Fact_Purchases_Rejects	PurchaseOrderDetailID
dbo	Fact_Purchases_Rejects	Status
dbo	Fact_Purchases_Rejects	EmployeeSK
dbo	Fact_Purchases_Rejects	VendorSK
dbo	Fact_Purchases_Rejects	ShipMethodSK
dbo	Fact_Purchases_Rejects	EmployeeID
dbo	Fact_Purchases_Rejects	VendorID
dbo	Fact_Purchases_Rejects	ShipMethodID
dbo	Fact_Purchases_Rejects	OrderDateSK
dbo	Fact_Purchases_Rejects	ShipDateSK
dbo	Fact_Purchases_Rejects	OrderDate
dbo	Fact_Purchases_Rejects	ShipDate
dbo	Fact_Purchases_Rejects	ProductPurchasedSK
dbo	Fact_Purchases_Rejects	SubTotal
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dbo	Fact_Purchases_Rejects	Freight
dbo	Fact_Purchases_Rejects	TotalDue
dbo	Fact_Purchases_Rejects	DueDate
dbo	Fact_Purchases_Rejects	OrderQty
dbo	Fact_Purchases_Rejects	UnitPrice
dbo	Fact_Purchases_Rejects	LineTotal
dbo	Fact_Purchases_Rejects	ReceivedQty
dbo	Fact_Purchases_Rejects	RejectedQty
dbo	Fact_Purchases_Rejects	StockedQty
dbo	Fact_Purchases_Rejects	LineTaxAmount
dbo	Fact_Purchases_Rejects	LineFrieght
dbo	Fact_Purchases_Rejects	LineTotalDue
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dbo	Fact_Purchases_Rejects	SOR_LoadDate
dbo	Fact_Purchases_Rejects	SOR_UpdateDate
dbo	Fact_Purchases_Rejects	DI_Job_ID
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dbo	Fact_Purchases_Rejects	DI_Modified_Date
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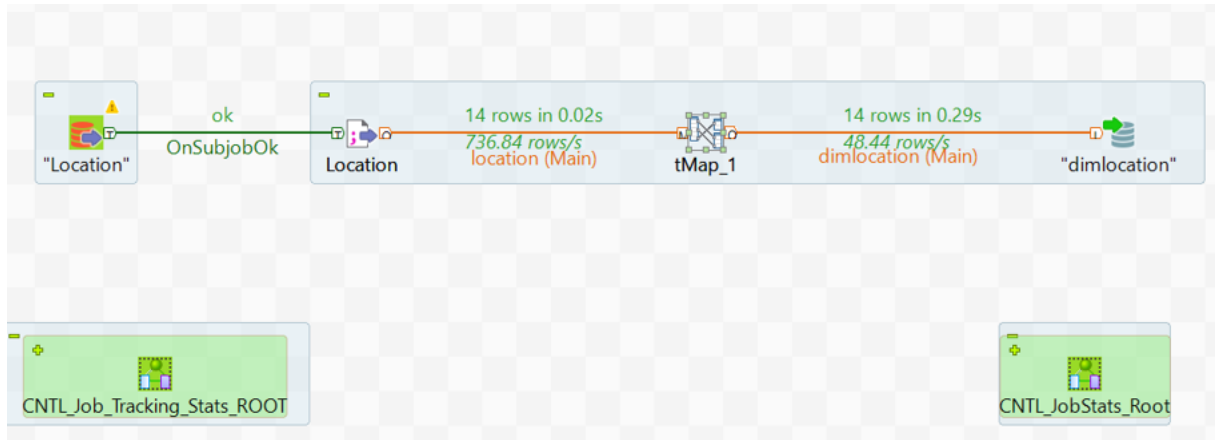


Schema	Table Name	Column Name
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dbo	FactStoreSales	DueDateSK
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dbo	FactStoreSales	CustomerSK
dbo	FactStoreSales	PromotionSK
dbo	FactStoreSales	CurrencySK
dbo	FactStoreSales	SalesTerrotorySK
dbo	FactStoreSales	SalesOrderNumber
dbo	FactStoreSales	SalesOrderLineNumber
dbo	FactStoreSales	RevisionNumber
dbo	FactStoreSales	OrderQuantity
dbo	FactStoreSales	ExtendedAmount
dbo	FactStoreSales	DiscountAmount
dbo	FactStoreSales	TotalProductCost
dbo	FactStoreSales	SalesAmount
dbo	FactStoreSales	TaxAmt
dbo	FactStoreSales	Freight
dbo	FactStoreSales	CarrierTrackingNumber
dbo	FactStoreSales	CustomerPONumber
dbo	FactStoreSales	OrderDate
dbo	FactStoreSales	DueDate
dbo	FactStoreSales	ShipDate
dbo	FactStoreSales	SOR_ID
dbo	FactStoreSales	SOR_LoadDate
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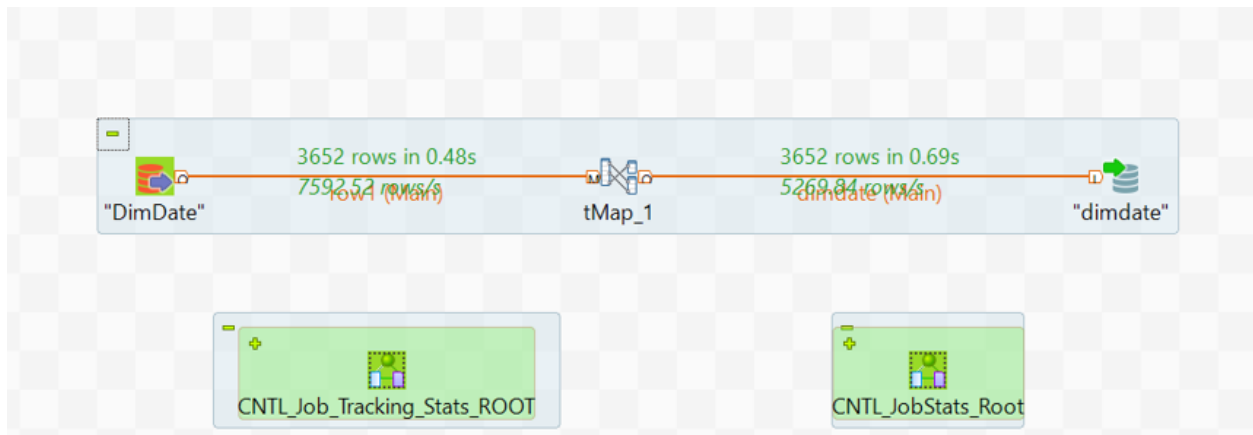
Schema	Table Name	Column Name
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dbo	FactStoreSales_Rejects	ProductSK
dbo	FactStoreSales_Rejects	OrderDateSK
dbo	FactStoreSales_Rejects	DueDateSK
dbo	FactStoreSales_Rejects	ShipDateSK
dbo	FactStoreSales_Rejects	CustomerSK
dbo	FactStoreSales_Rejects	PromotionSK
dbo	FactStoreSales_Rejects	CurrencySK
dbo	FactStoreSales_Rejects	SalesTerritorySK
dbo	FactStoreSales_Rejects	SalesOrderNumber
dbo	FactStoreSales_Rejects	SalesOrderLineNumber
dbo	FactStoreSales_Rejects	RevisionNumber
dbo	FactStoreSales_Rejects	OrderQuantity
dbo	FactStoreSales_Rejects	ExtendedAmount
dbo	FactStoreSales_Rejects	DiscountAmount
dbo	FactStoreSales_Rejects	TotalProductCost
dbo	FactStoreSales_Rejects	SalesAmount
dbo	FactStoreSales_Rejects	TaxAmt
dbo	FactStoreSales_Rejects	Freight
dbo	FactStoreSales_Rejects	CarrierTrackingNumber
dbo	FactStoreSales_Rejects	CustomerPONumber
dbo	FactStoreSales_Rejects	OrderDate
dbo	FactStoreSales_Rejects	DueDate
dbo	FactStoreSales_Rejects	ShipDate
dbo	FactStoreSales_Rejects	SOR_ID
dbo	FactStoreSales_Rejects	SOR_LoadDate
dbo	FactStoreSales_Rejects	SOR_UpdateDate
dbo	FactStoreSales_Rejects	DI_Job_ID
dbo	FactStoreSales_Rejects	DI_Create_Date
dbo	FactStoreSales_Rejects	DI_Modified_Date

# Screenshots of Talend Jobs

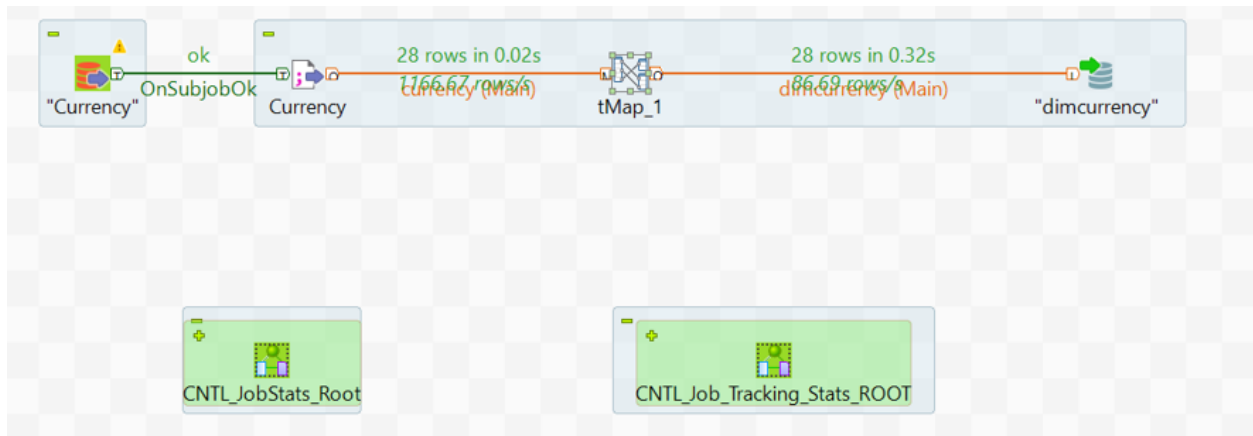
## 1.DimLocation



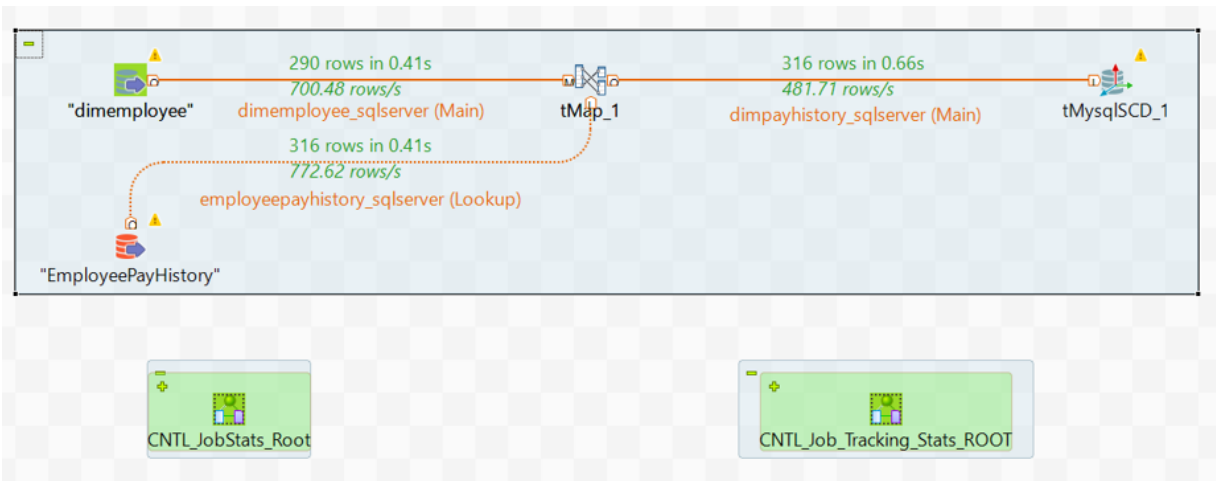
## 2.DimDate



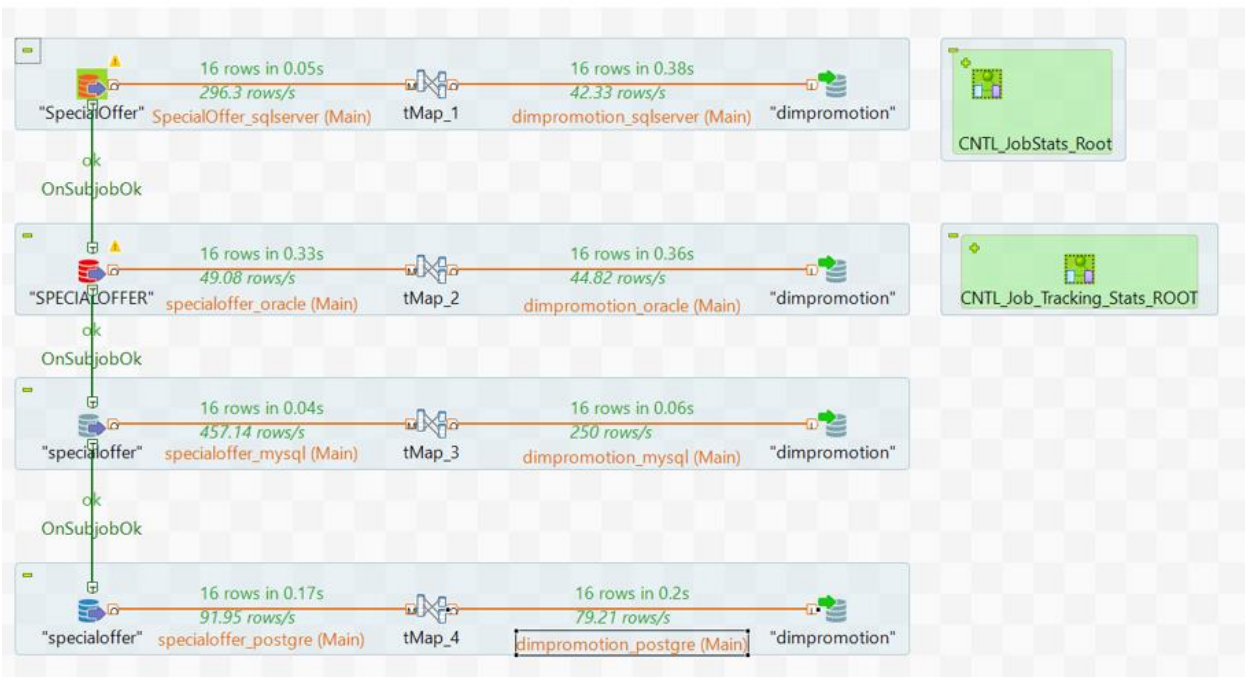
## 3.DimCurrency



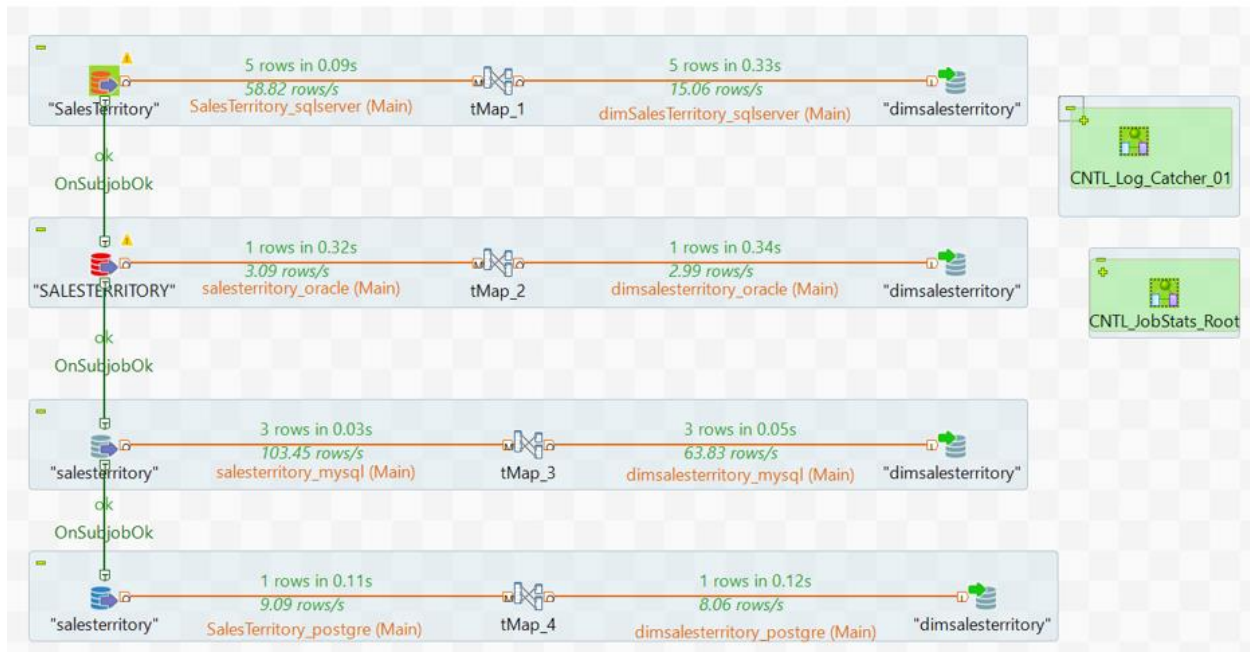
## 4.DimPayHistory



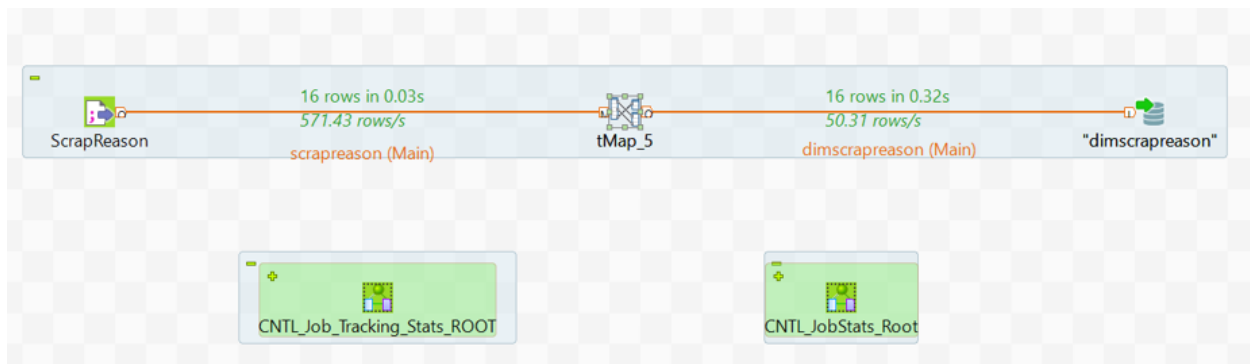
## 5.DimPromotion



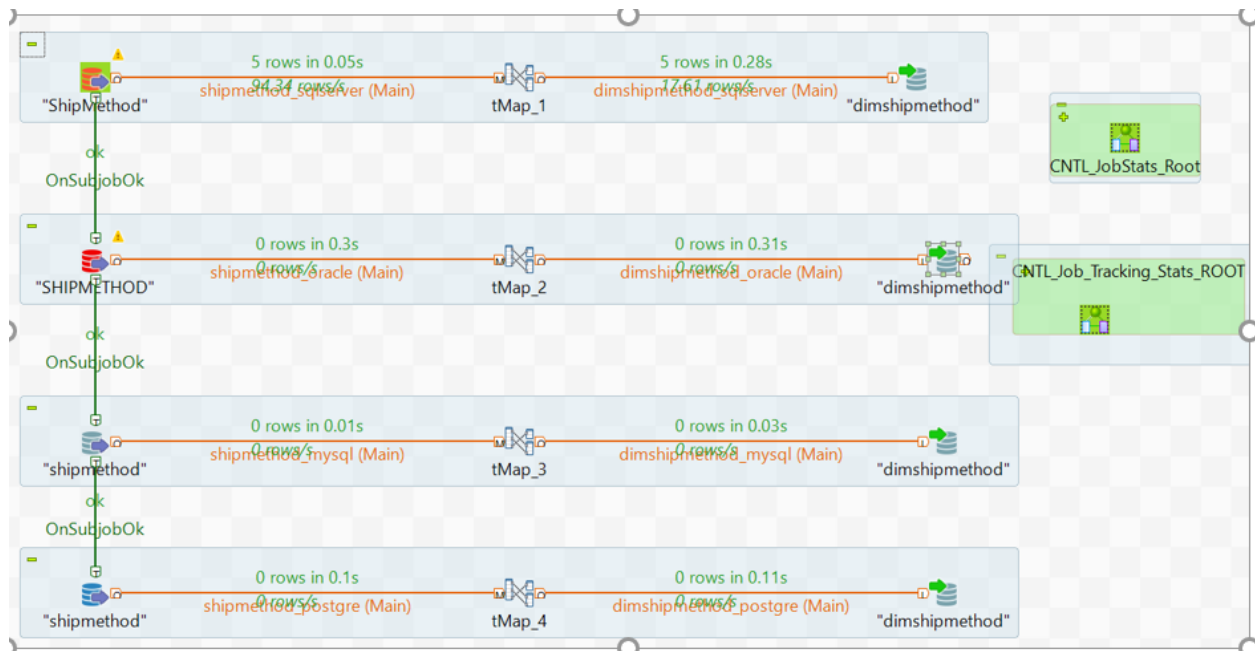
## 6.DimSalesTerritory



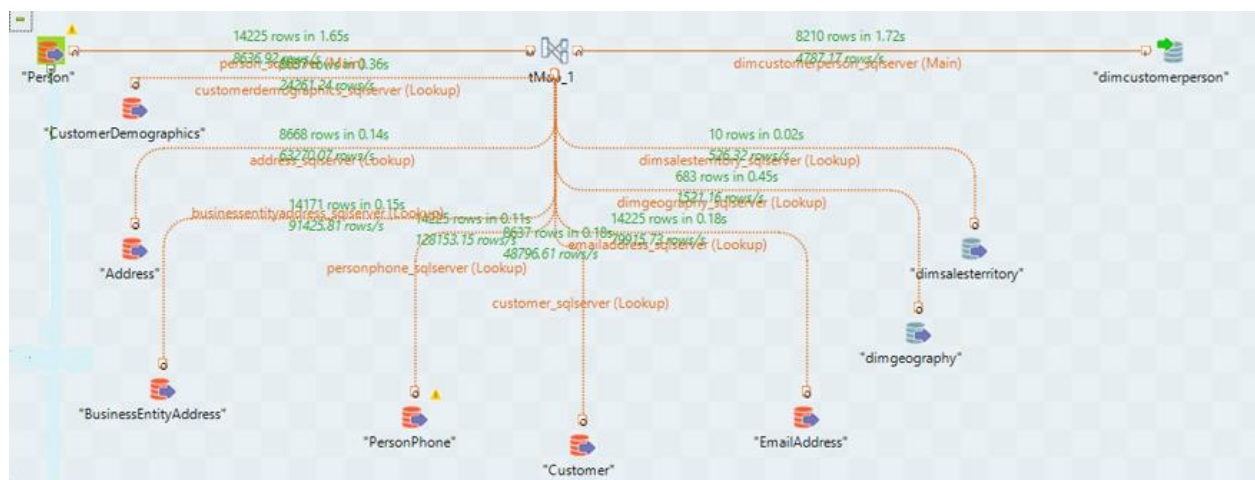
## 7.DimScrapReason



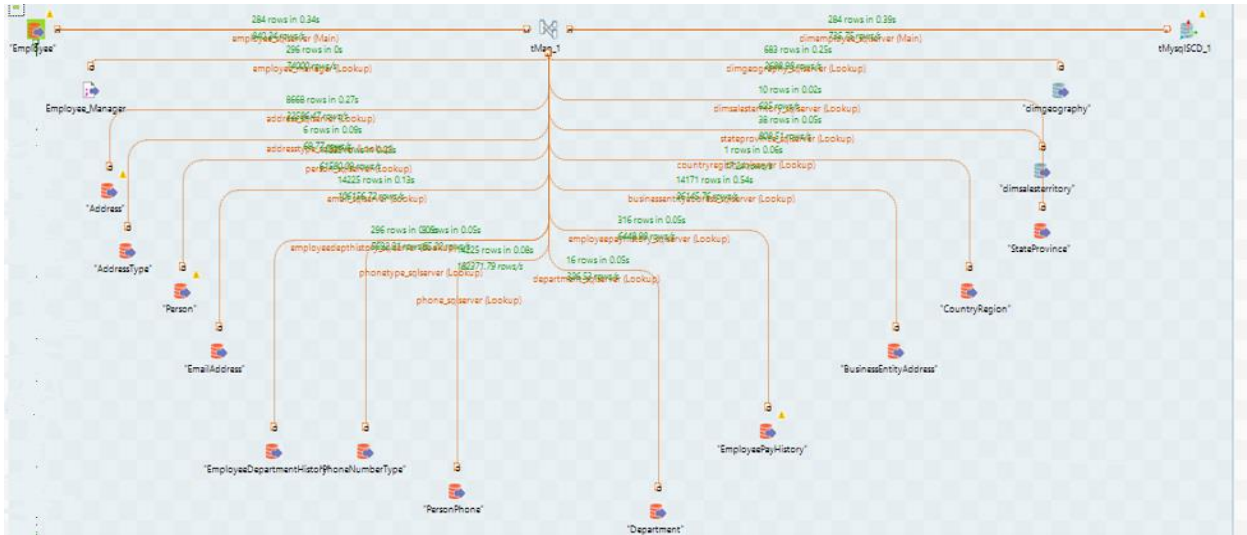
## 8.DimShipMethod



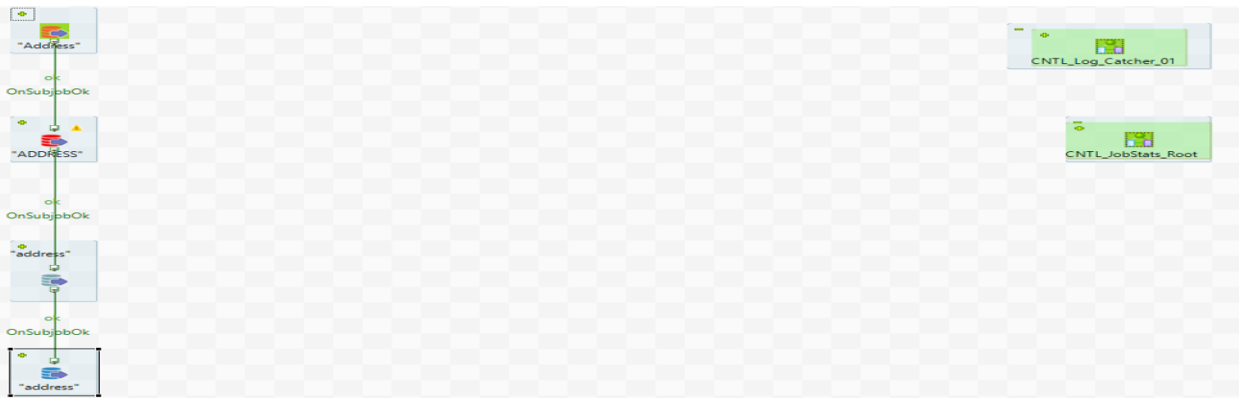
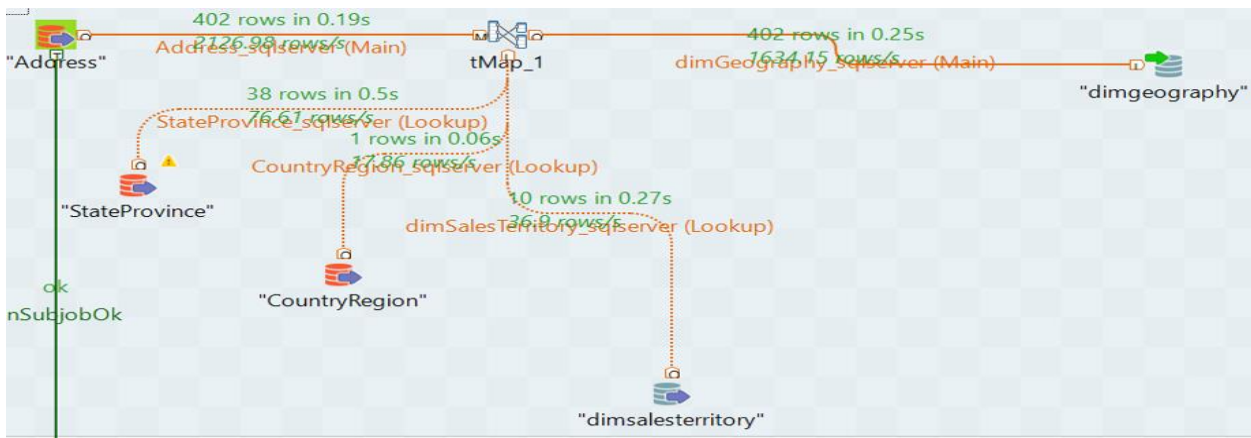
## 9. DimCustomerPerson (SQL server)



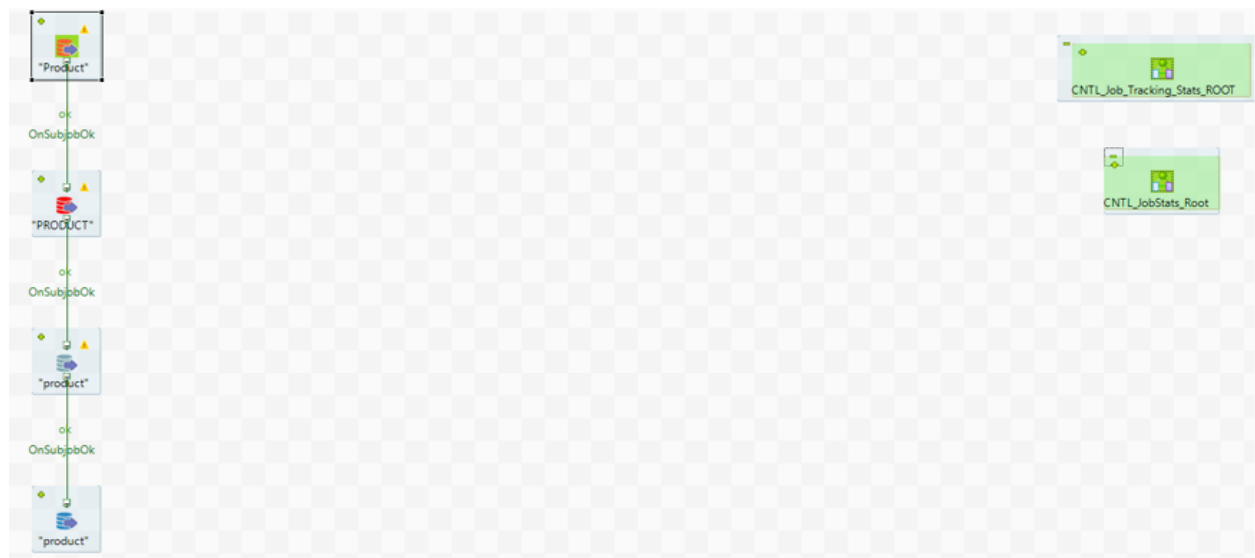
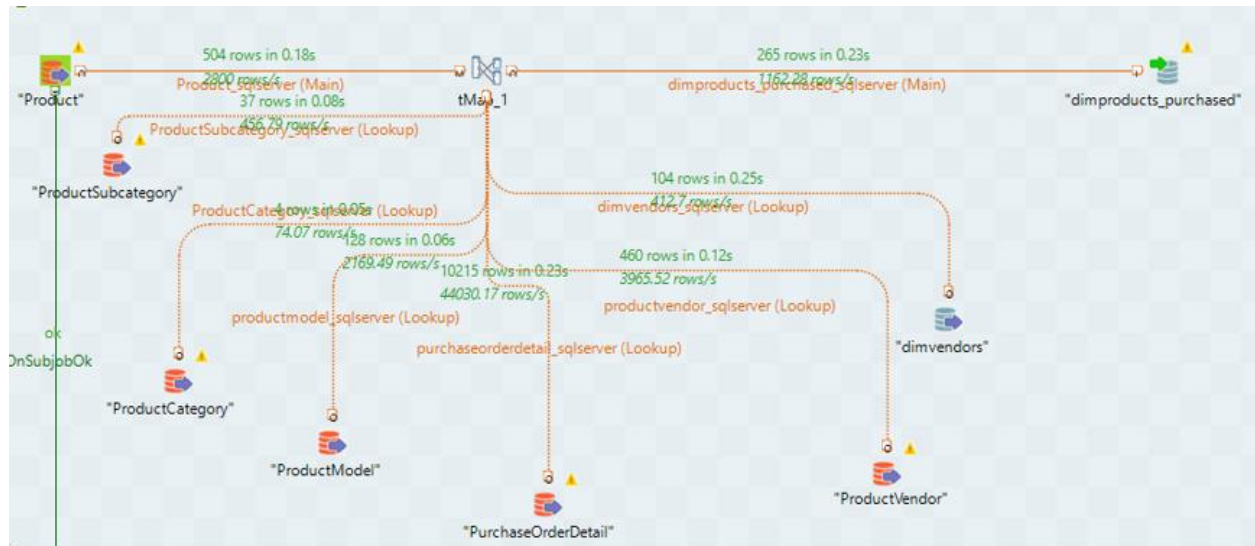
## 10.DimEmployee



## 11.DimGeography

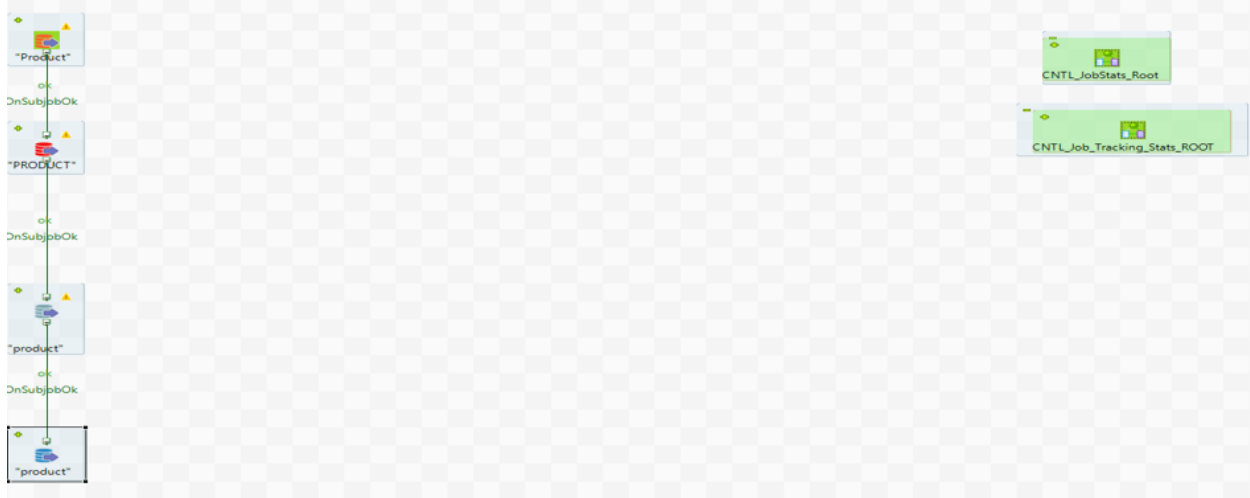
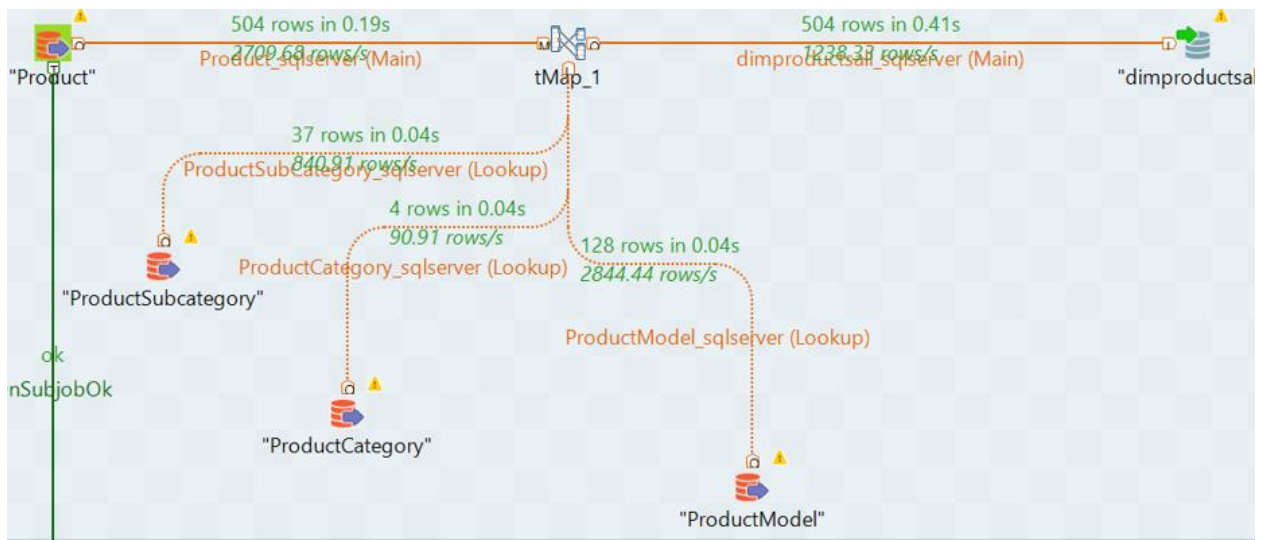


## 12.Product Purchased

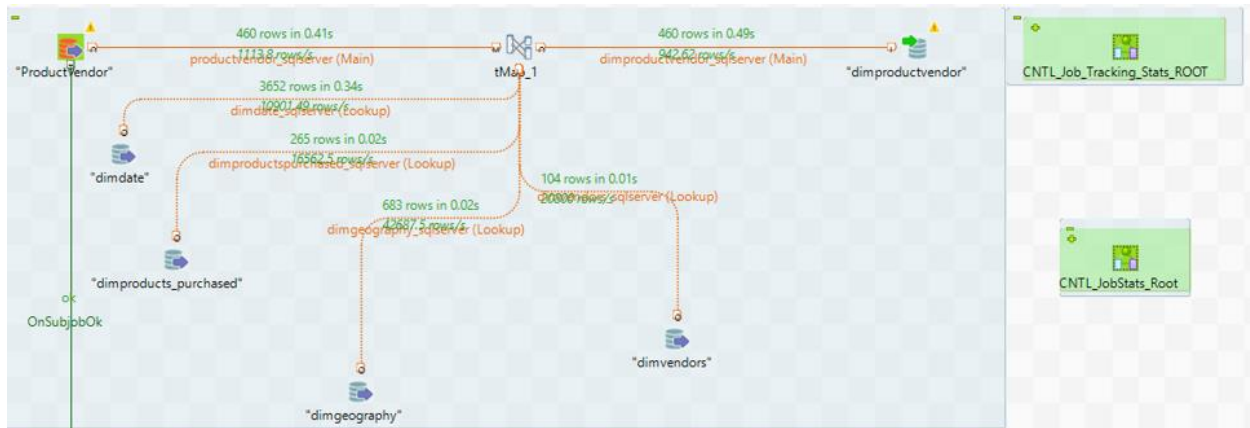


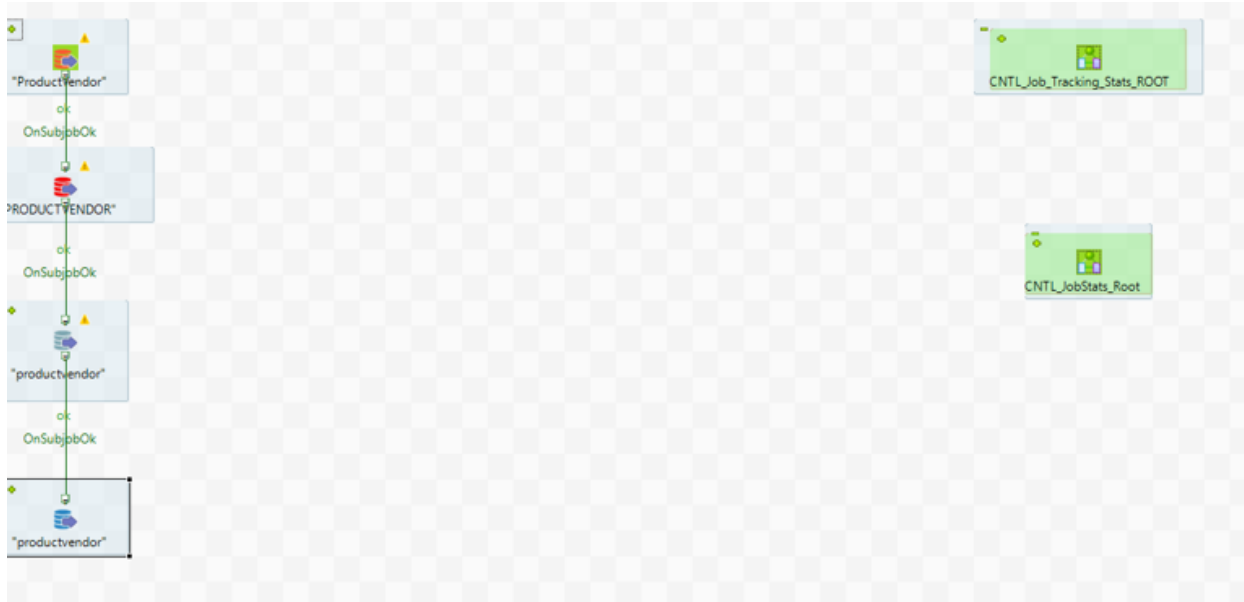
## 13.DimProductAll



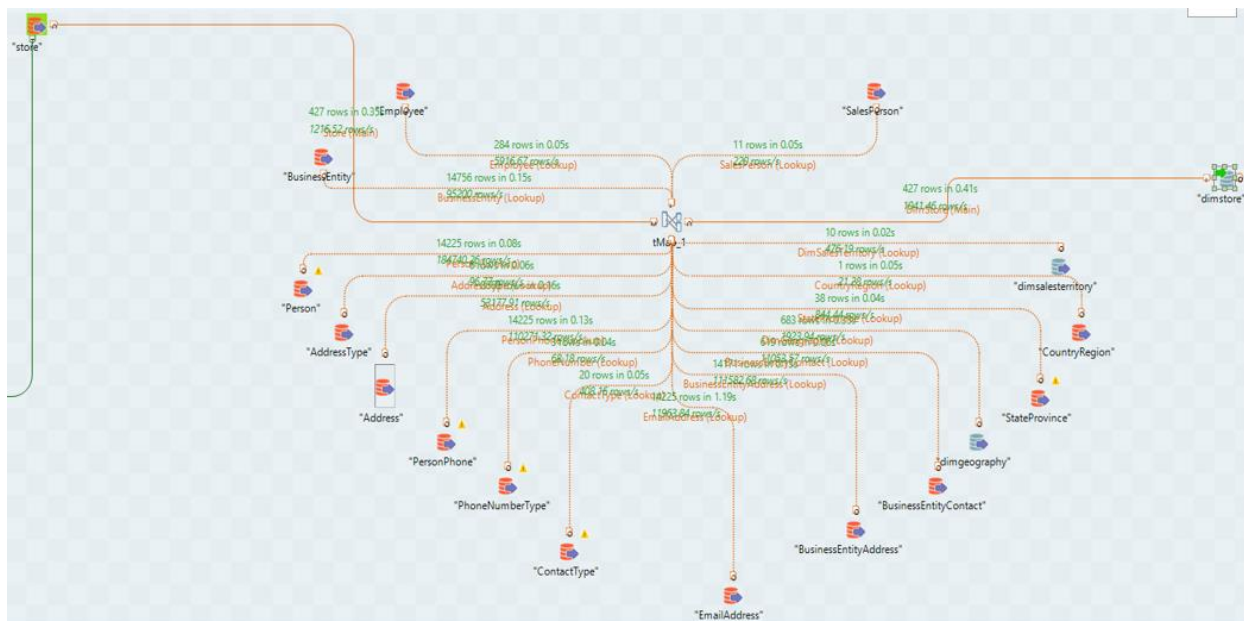


## 14. DimProductVendor



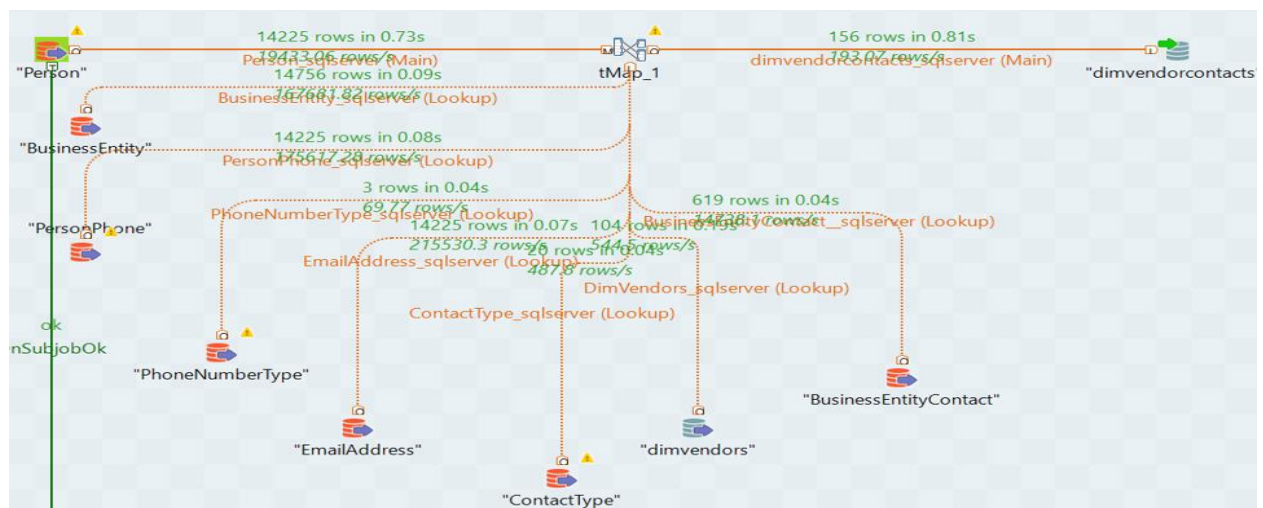


## 15.DimStore

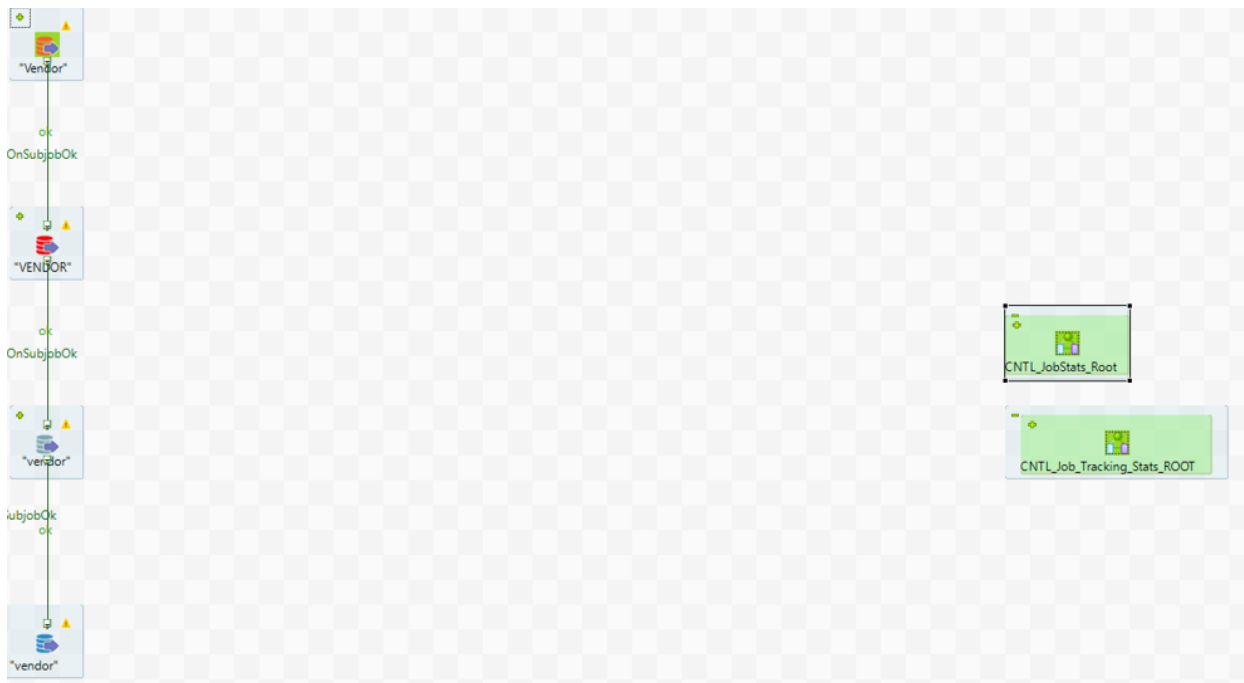
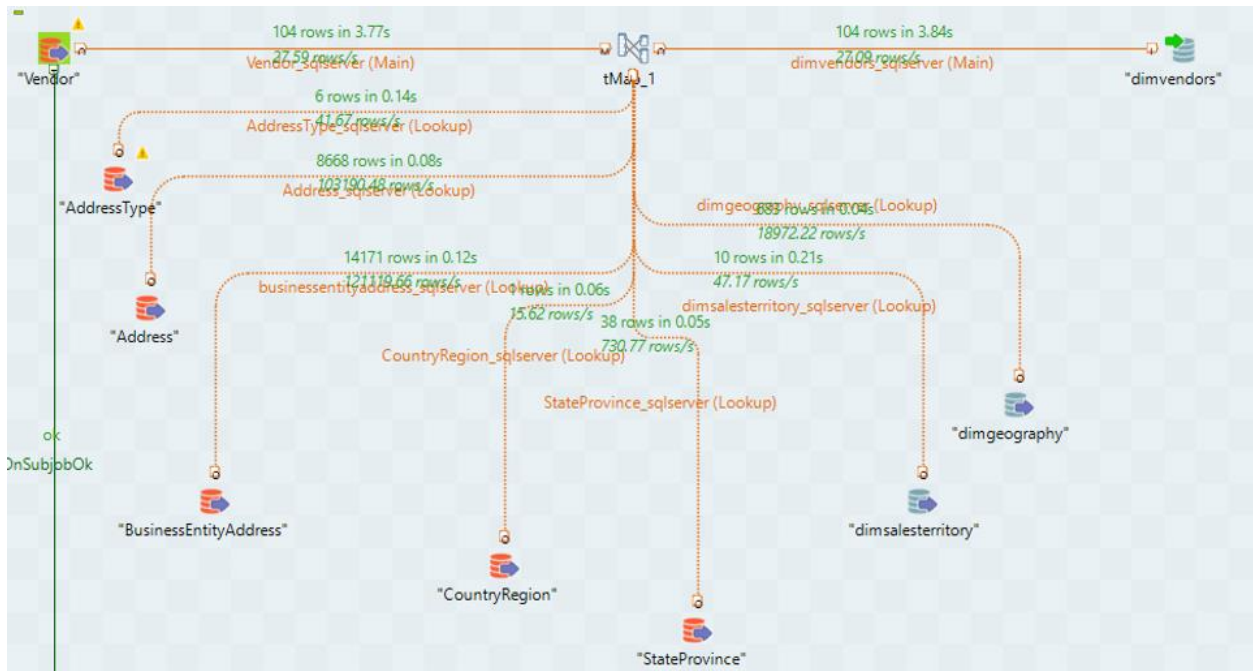




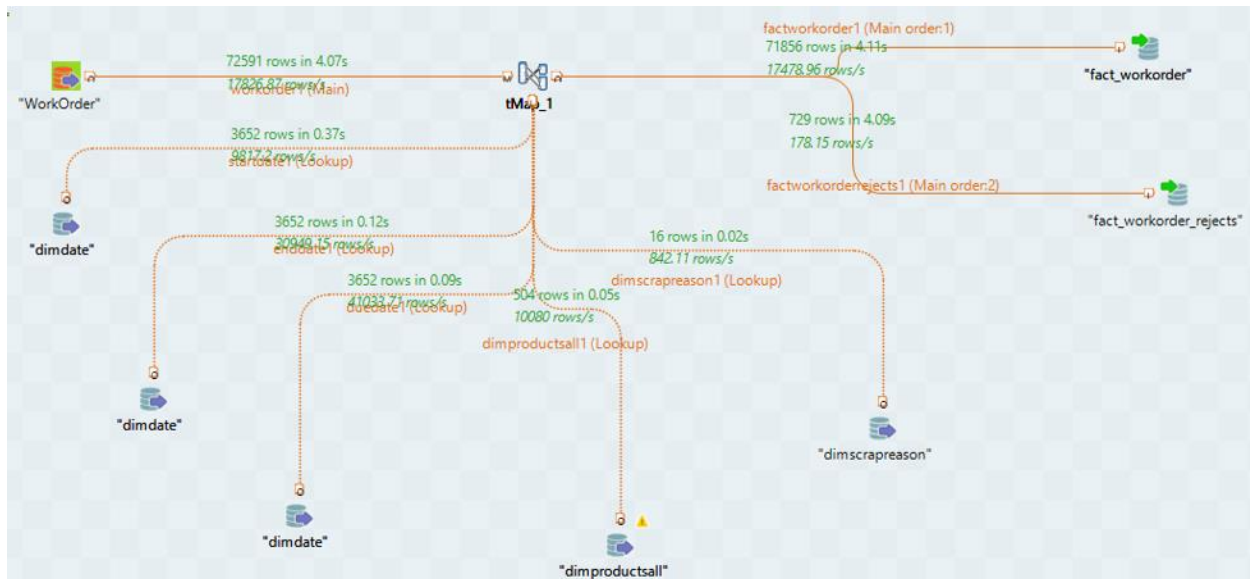
## 16.DimVendorContacts



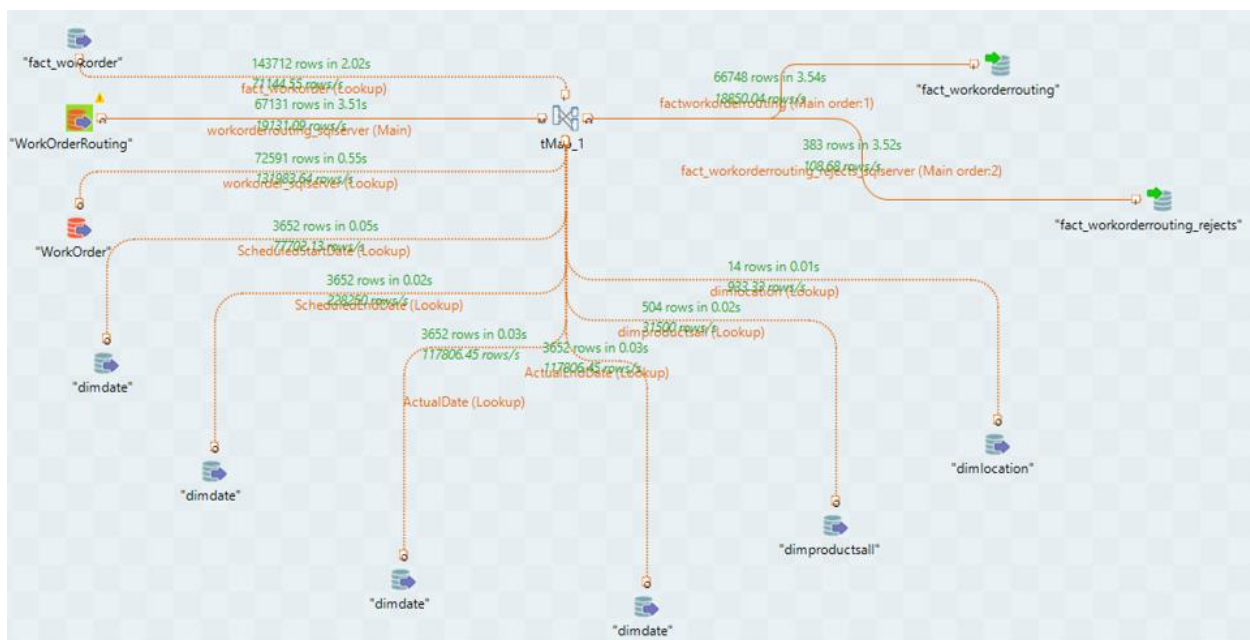
## 17.DimVendors



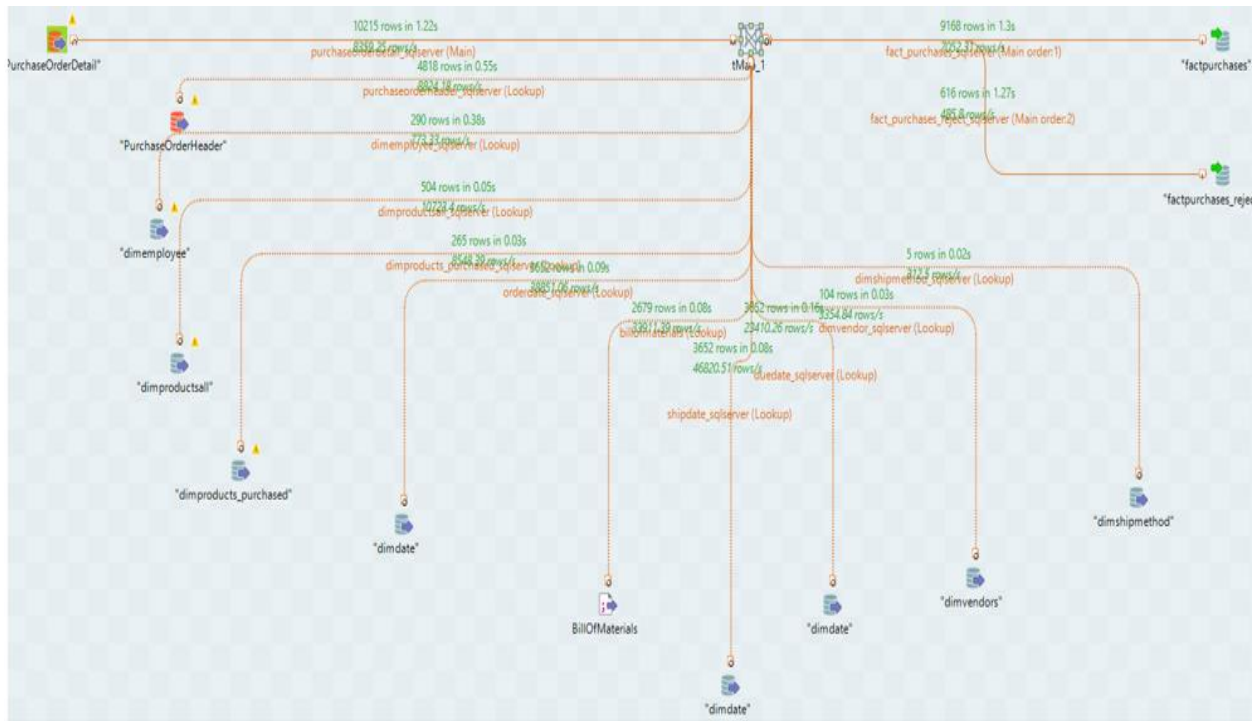
## 18.FactWorkOrder



## 19.FactWorkOrderRouting



## 20.FactPurchase



## Data Analysis using Datawarehouse

Query: Top 20 product by purchase amount

```
select Top 20 RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductName
as 'Product Name', CONCAT('$',SUM(FP.LineTotal)) as 'Purchase Amount'
from FactPurchases as FP
inner join DimProducts_Purchased as DP
on FP.ProductPurchasedSK = DP.ProductPurchasedSK
group by DP.ProductName;
```

Results		Messages	
Ranking	Product Name	Purchase Amount	
1	HL Crankam	\$3102687.45	
2	ML Mountain Pedal	\$2363770.58	
3	ML Road Pedal	\$2071619.16	
4	Front Brakes	\$2004594.68	
5	HL Mountain Tire	\$1998813.70	
6	Rear Brakes	\$1913476.74	
7	HL Road Rim	\$1666942.00	
8	Touring Rim	\$1592190.16	
9	ML Road Tire	\$1584376.66	
10	ML Mountain Tire	\$1558175.85	
11	HL Road Tire	\$1539591.58	
12	HL Mountain Pedal	\$1524345.68	
13	Touring Pedal	\$1524345.68	
14	HL Mountain Pedal	\$1506772.14	



## Query: Ranked list of employees purchasing products amount \$

```
select RANK() over (order by SUM(FP.TotalDue) desc) as Ranking, (DE.FirstName + ' ' +
DE.MiddleName + ' ' + DE.LastName) as 'Employee Full Name', CONCAT('$', SUM(FP.TotalDue)) as
'Purchase Amount'
from FactPurchases as FP
Inner join DimEmployee as DE
on FP.EmployeeID = DE.BusinessEntityID
group by DE.FirstName, DE.MiddleName, DE.LastName;
```

Results		Messages	
	Ranking	Employee Full Name	Purchase Amount
1	1	Mikael Q Sandberg	\$27585362.90
2	2	Eric S Kurjan	\$25364338.14
3	3	Linda P Meisner	\$19925939.02
4	4	Gordon L Hee	\$18243395.15
5	5	Erin M Hagens	\$18239654.09
6	6	Fukiko J Ogisu	\$16762711.27
7	7	Reinout N Hillmann	\$16762307.73
8	8	Frank S Pellow	\$12102859.39
9	9	Ben T Miller	\$10741245.81
10	10	Arvind B Rao	\$7372109.32
11	11	Annette L Hill	\$7250264.13
12	12	Sheela H Word	\$3985465.45

## Query: List of employees who purchased products with phone, email & address

```
select (DE.FirstName + ' ' + DE.MiddleName + ' ' + DE.LastName) as 'Employee Full Name',
DE.Phone, DE.EmailAddress, DE.AddressLine1, DE.AddressLine2, DG.City,
DG.StateProvinceName as 'State', DG.PostalCode
from FactPurchases as FP
Inner join DimEmployee as DE
on FP.EmployeeID = DE.BusinessEntityID
Inner join DimGeography as DG
on DE.GeoSK = DG.GeoSK;
```

Results		Messages						
	EmployeeName	Phone	EmailAddress	AddressLine1	AddressLine2	City	State	PostalCode
1	Eric S Kurjan	265-555-0195	eric2@adventure-works.com	2425 Notre Dame Ave	NULL	Kent	Washington	98031
2	Erin M Hagens	842-555-0158	erin0@adventure-works.com	8036 Summit View Dr.	NULL	Kent	Washington	98031
3	Fukiko J Ogisu	520-555-0177	fukiko0@adventure-works.com	3030 Blackburn Ct.	NULL	Kent	Washington	98031
4	Fukiko J Ogisu	520-555-0177	fukiko0@adventure-works.com	3030 Blackburn Ct.	NULL	Kent	Washington	98031
5	Eric S Kurjan	265-555-0195	eric2@adventure-works.com	2425 Notre Dame Ave	NULL	Kent	Washington	98031
6	Gordon L Hee	230-555-0144	gordon0@adventure-works.com	7469 Paradise Ct.	NULL	Kent	Washington	98031
7	Gordon L Hee	230-555-0144	gordon0@adventure-works.com	7469 Paradise Ct.	NULL	Kent	Washington	98031
8	Frank S Pellow	163-555-0147	frank2@adventure-works.com	9605 Pheasant Circle	NULL	Kent	Washington	98031
9	Frank S Pellow	163-555-0147	frank2@adventure-works.com	9605 Pheasant Circle	NULL	Kent	Washington	98031
10	Frank S Pellow	163-555-0147	frank2@adventure-works.com	9605 Pheasant Circle	NULL	Kent	Washington	98031
11	Gordon L Hee	230-555-0144	gordon0@adventure-works.com	7469 Paradise Ct.	NULL	Kent	Washington	98031
12	Frank S Pellow	163-555-0147	frank2@adventure-works.com	9605 Pheasant Circle	NULL	Kent	Washington	98031
13	Frank S Pellow	163-555-0147	frank2@adventure-works.com	9605 Pheasant Circle	NULL	Kent	Washington	98031
14	Linda P Meisner	916-555-0165	linda2@adventure-works.com	1397 Paradise Ct.	NULL	Kent	Washington	98031

## Query: Ranked order of Vendors by purchase amount \$

```
select RANK() over (order by SUM(FP.TotalDue) desc) as Ranking, DV.VendorName as 'Vendor  
Name', CONCAT('$',SUM(FP.TotalDue)) as 'Purchase Amount'  
from FactPurchases as FP  
Inner join DimVendors as DV  
on FP.VendorID = DV.BusinessEntityID  
group by DV.VendorName;
```

Results		Messages	
	Ranking	Vendor_Name	Purchase_Amount
1	1	Chicago City Saddles	\$16181187.71
2	2	Professional Athletic Consultants	\$11425895.57
3	3	Superior Bicycles	\$9967847.67
4	4	Team Athletic Co.	\$7418832.30
5	5	Custom Frames, Inc.	\$7331394.79
6	6	Jackson Authority	\$7203180.42
7	7	Vision Cycles, Inc.	\$7043180.74
8	8	Sport Fan Co.	\$7031075.00
9	9	Integrated Sport Products	\$6814484.82
10	10	Fitness Association	\$6703642.00
11	11	Victory Bikes	\$6533640.44
12	12	Proseware, Inc.	\$6400767.73
13	13	Expert Bike Co	\$6383129.72
14	14	First Rate Bicycles	\$6113879.46