

PortFolioIQ: Financial Portfolio Management System

Milestone 4

Of

Data Warehousing and Integration

BY

GROUP NUMBER 14:

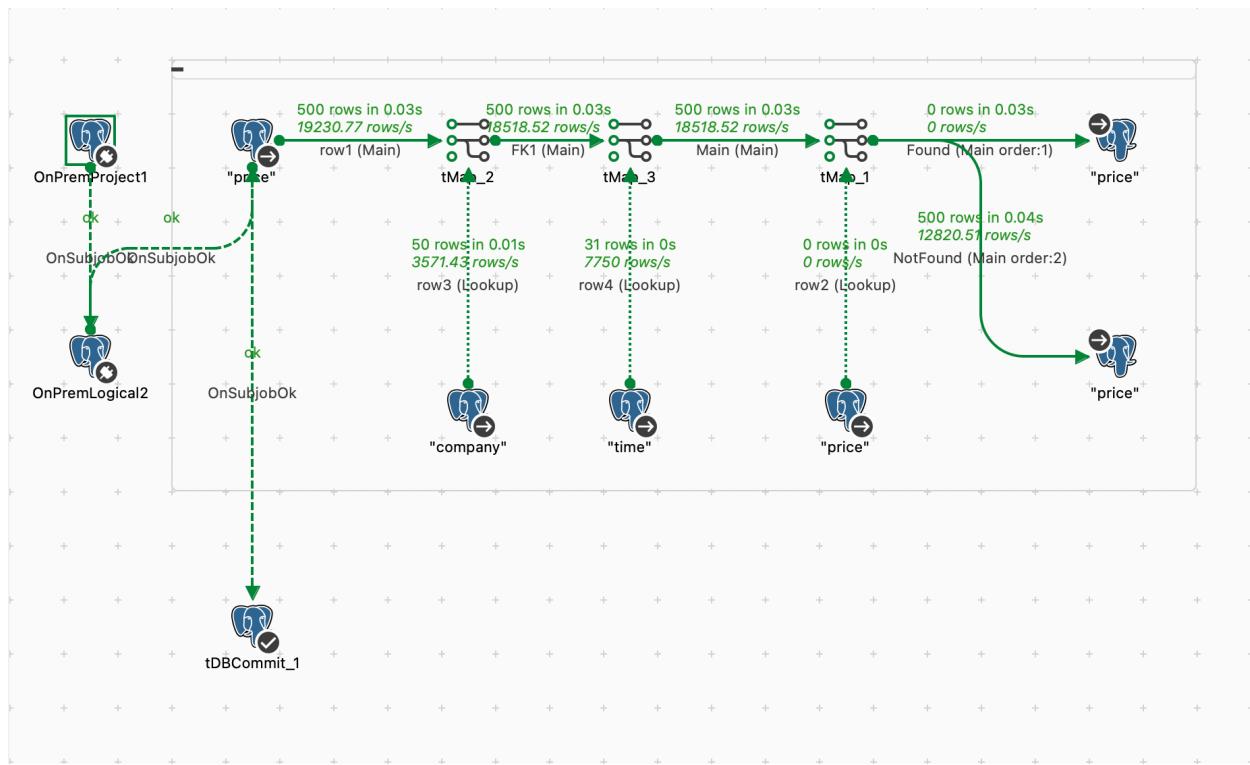
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NORTHEASTERN UNIVERSITY
BOSTON, MASSACHUSETTS – 022115**

Price Transfer:



Talend Studio

Talend Real-time Big Data Platform - tMap - tMap_2

Row1

Column	Key	Type	Nullab Date Pattern (Ctrl+Space Length)	Precision	Default	Comment
1 price_id	<input checked="" type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	nextval('pri')
2 isin	<input checked="" type="checkbox"/>	String	<input checked="" type="checkbox"/>	12	0	
3 date	<input type="checkbox"/>	Date	<input checked="" type="checkbox"/>	13	0	"yyyy-MM-dd"
4 price	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>	18	2	

Row3

Property	Value
Lookup Model	Load once
Match Model	Unique match
Join Model	Inner Join
Store temp data	false

Expr. key

↳ row1.isin

Column

↳ isin
ticker
name
sector
market_cap

FK1

Column	Key	Type	Nullab Date Pattern (Ctrl+Space Length)	Precision	Default	Comment
1 price_id	<input checked="" type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	
2 isin	<input type="checkbox"/>	String	<input checked="" type="checkbox"/>	12	0	
3 date	<input type="checkbox"/>	Date	<input checked="" type="checkbox"/>	13	0	"yyyy-MM-dd"
4 price	<input checked="" type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>	18	2	

Schema editor \ Expression editor

row1

FK1

Row4

Main

Property

Catch output reject
Catch lookup inner join reject
Schema Type

Expression

↳ FK1.price_id
↳ FK1.isin
↳ FK1.date
↳ FK1.price
↳ row4.day
↳ row4.month
↳ row4.quarter
↳ row4.year

Column

price_id
isin
date
price
day
month
quarter
year

Talend Studio

Talend Real-time Big Data Platform - tMap - tMap_3

FK1

Column	Key	Type	Nullab Date Pattern (Ctrl+Space Length)	Precision	Default	Comment
1 price_id	<input type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	
2 isin	<input checked="" type="checkbox"/>	String	<input checked="" type="checkbox"/>	12	0	
3 date	<input type="checkbox"/>	Date	<input checked="" type="checkbox"/>	13	0	"yyyy-MM-dd"
4 price	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>	18	2	

row4

Property	Value
Lookup Model	Load once
Match Model	Unique match
Join Model	Left Outer Join
Store temp data	false

Expr. key

↳ FK1.date

Column

↳ date
day
month
quarter
year

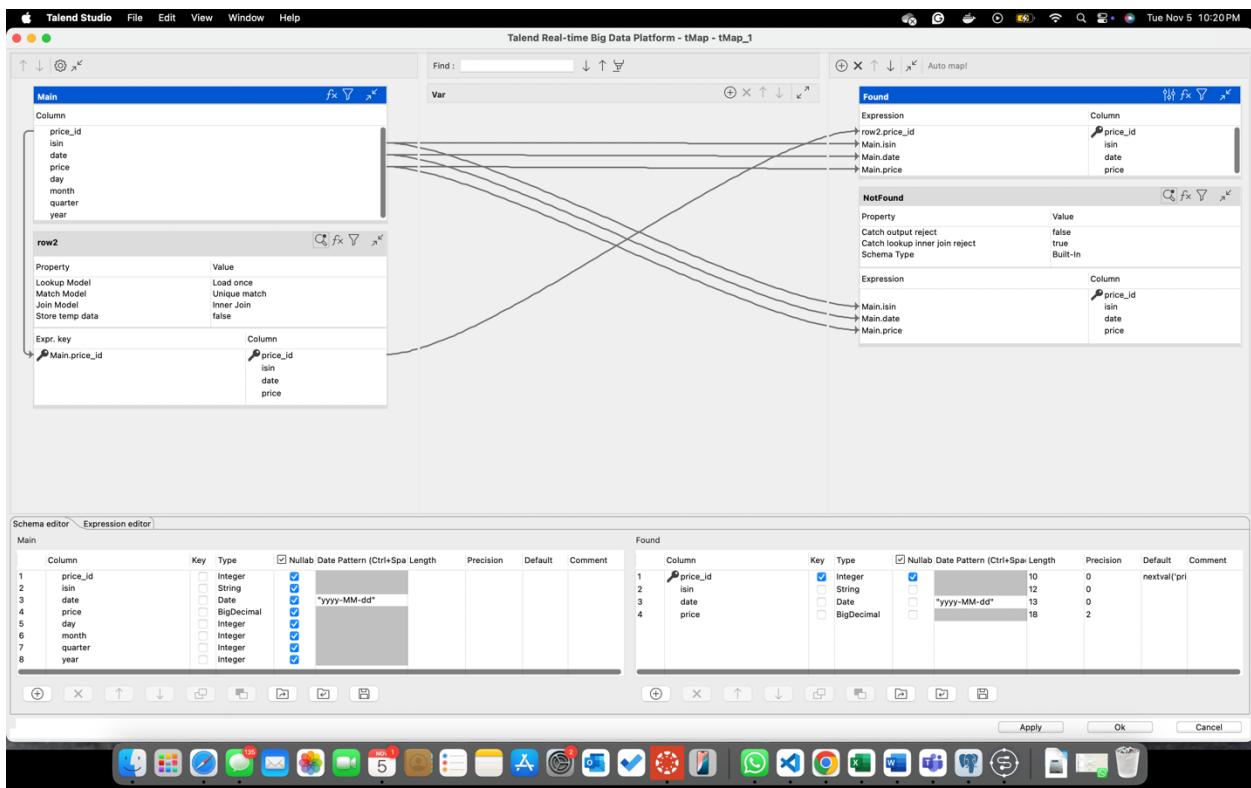
Main

Column	Key	Type	Nullab Date Pattern (Ctrl+Space Length)	Precision	Default	Comment
1 price_id	<input checked="" type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	
2 isin	<input type="checkbox"/>	String	<input checked="" type="checkbox"/>	12	0	
3 date	<input type="checkbox"/>	Date	<input checked="" type="checkbox"/>	13	0	"yyyy-MM-dd"
4 price	<input checked="" type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>	18	2	
5 day	<input type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	
6 month	<input type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	
7 quarter	<input type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	
8 year	<input type="checkbox"/>	Integer	<input checked="" type="checkbox"/>	10	0	

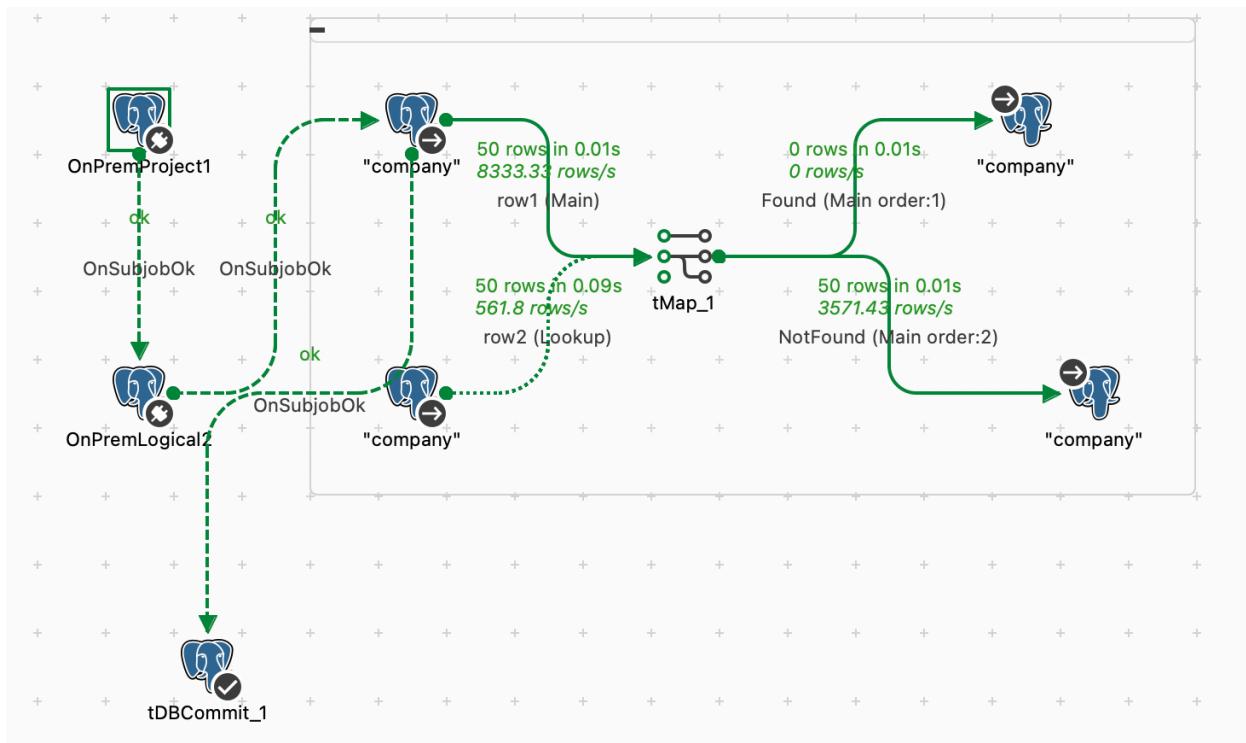
Schema editor \ Expression editor

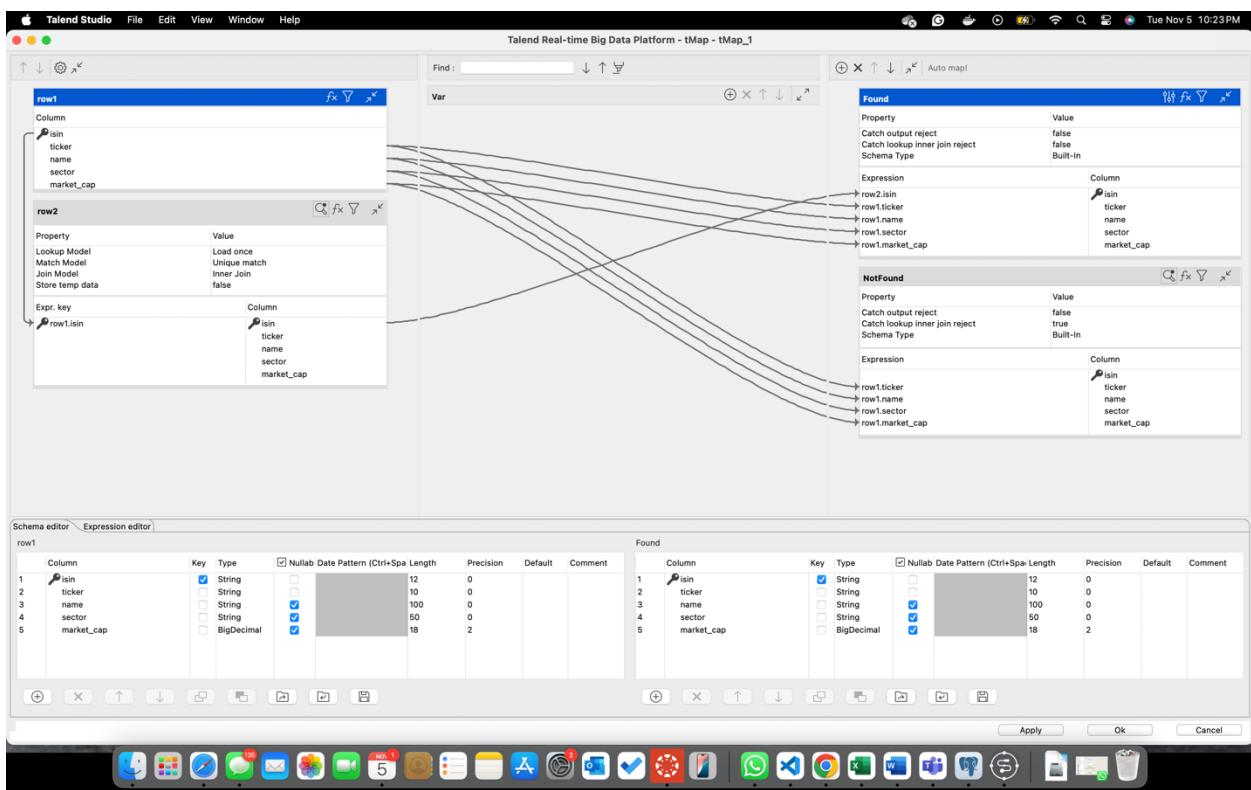
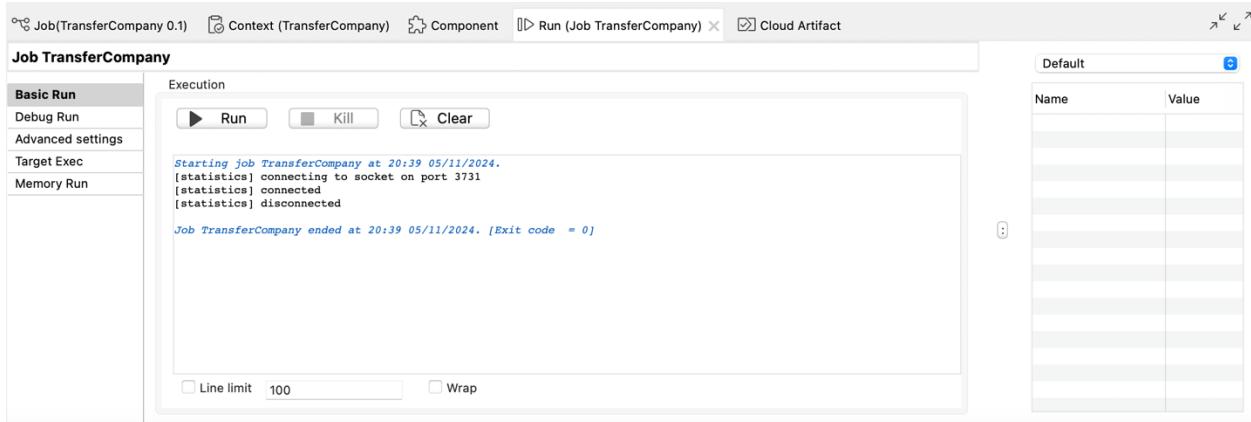
FK1

Main

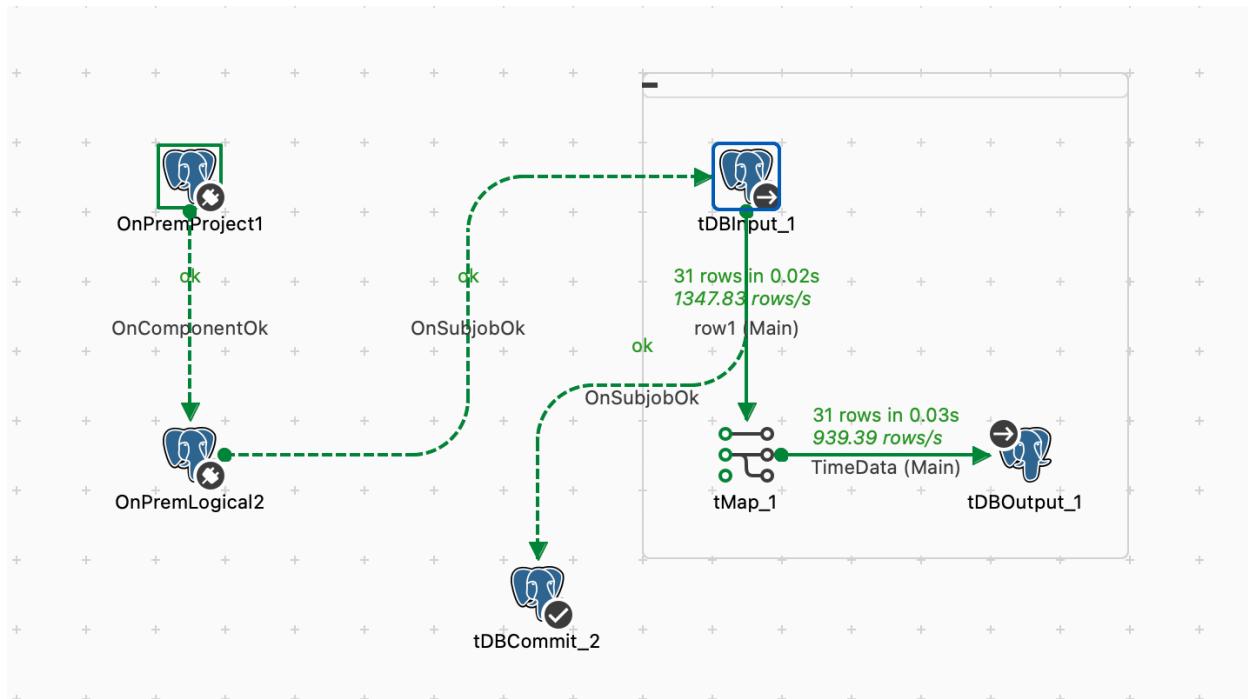


Company Transfer:





Time Transfer:



tDBInput_1(PostgreSQL)

Basic settings

- Database: PostgreSQL
- Use an existing connection: tDBConnection_1 - OnPremProject1
- Schema: Built-In
- Table Name: (empty)
- Query Type: Built-In
- Query:

```

SELECT DISTINCT Date FROM (
  SELECT Price.Date AS Date FROM Price
  UNION
  SELECT Fundamental_Report.Date AS Date FROM Fundamental_Report
  UNION
  SELECT Portfolio_Creation.Date AS Date FROM Portfolio_Creation
  UNION
  SELECT Client_Wise_Allocation.Date AS Date FROM Client_Wise_Allocation
  UNION
  SELECT Client_Transaction.Date AS Date FROM Client_Transaction
  UNION
  SELECT Return_Analytics.Date AS Date FROM Return_Analytics
) AS AllDates
WHERE Date IS NOT NULL;
  
```

Job TransferTimeTable

Execution

- Run
- Kill
- Clear

```

Starting job TransferTimeTable at 21:01 05/11/2024.
[statistics] connecting to socket on port 3905
[statistics] connected
[statistics] disconnected
Job TransferTimeTable ended at 21:01 05/11/2024. [Exit code = 0]
  
```

Default

Name	Value
Line limit	100
Wrap	(unchecked)

Talend Studio

Talend Real-time Big Data Platform - tMap - tMap_1

Row1

Column Date

TimeData

Property	Value
Catch output reject	false
Catch lookup inner join reject	false
Schema Type	Built-in
Expression	Column
row1.Date	date
TalendDate.getDate("DAY", row1.Date)	day
TalendDate.getMonth("MONTH", row1.Date)	month
(int)Math.ceil(TalendDate.getMonth("MONTH", row1.Date))	quarter
TalendDate.getYear("YEAR", row1.Date)	year

Schema editor Expression editor

row1

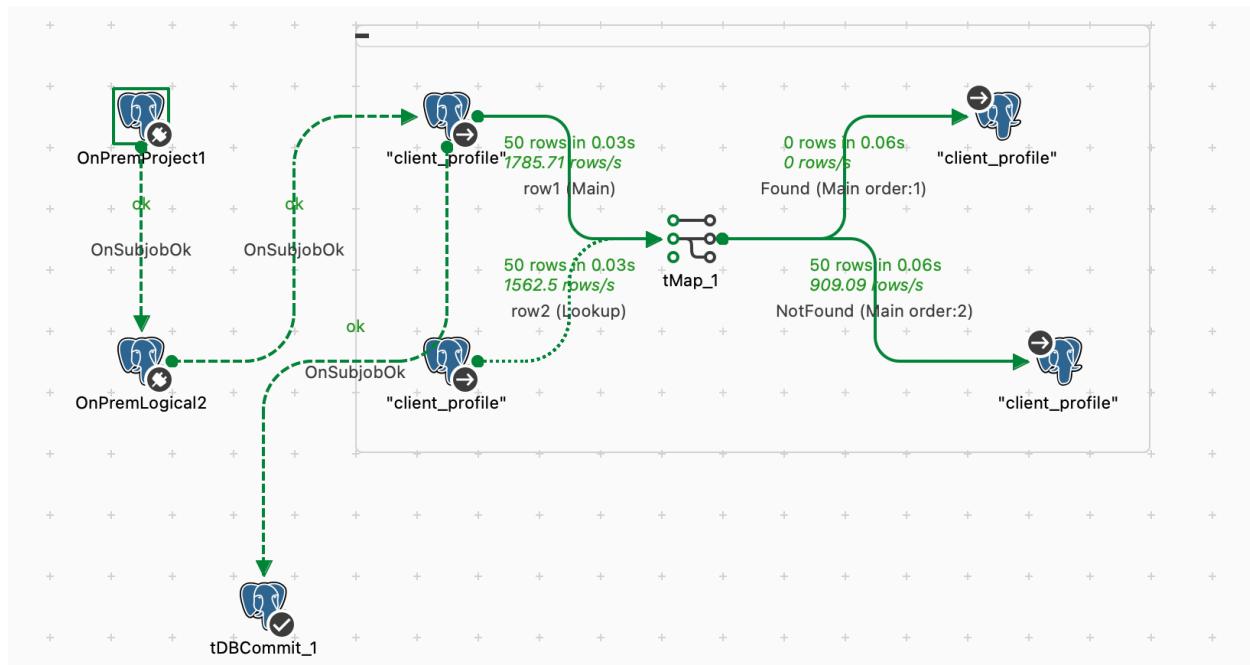
Column	Key	Type	Nullab Date Pattern (Ctrl+Space Length)	Precision	Default	Comment
1 Date		Date	<input checked="" type="checkbox"/> *yyyy-MM-dd*			

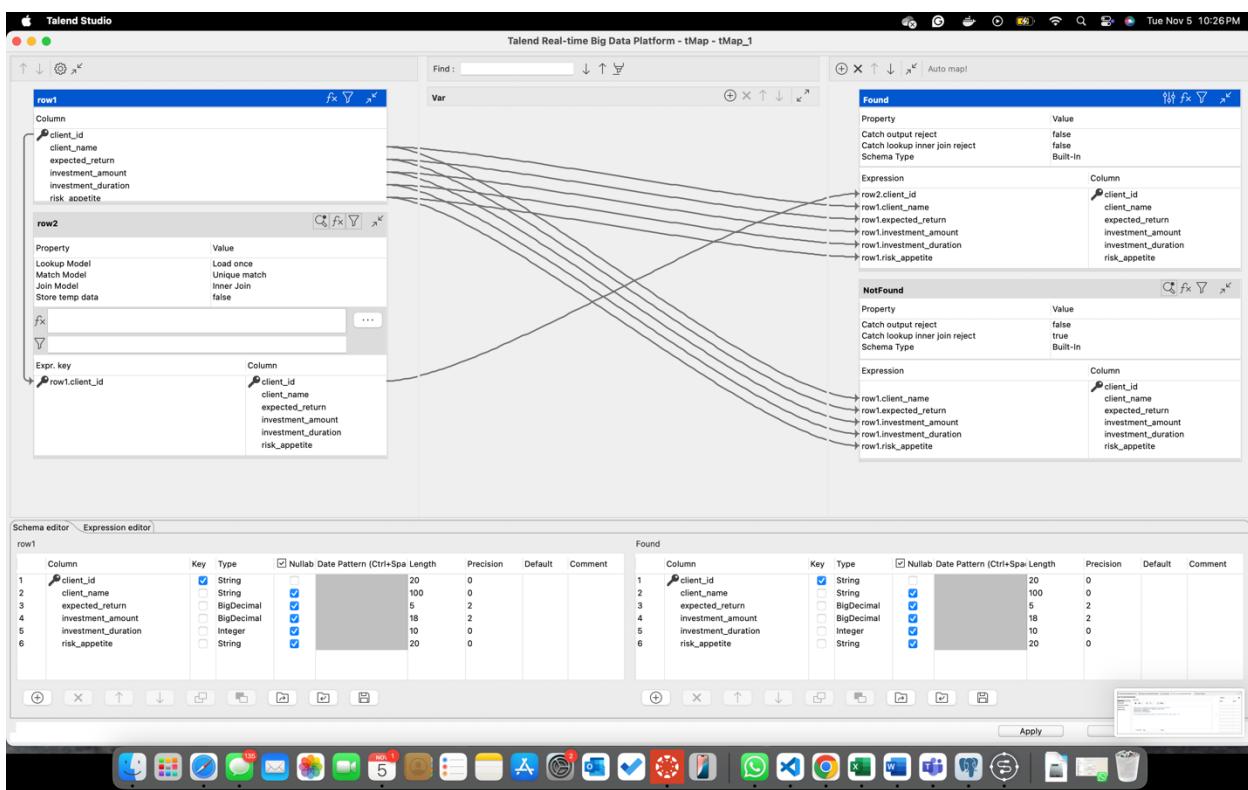
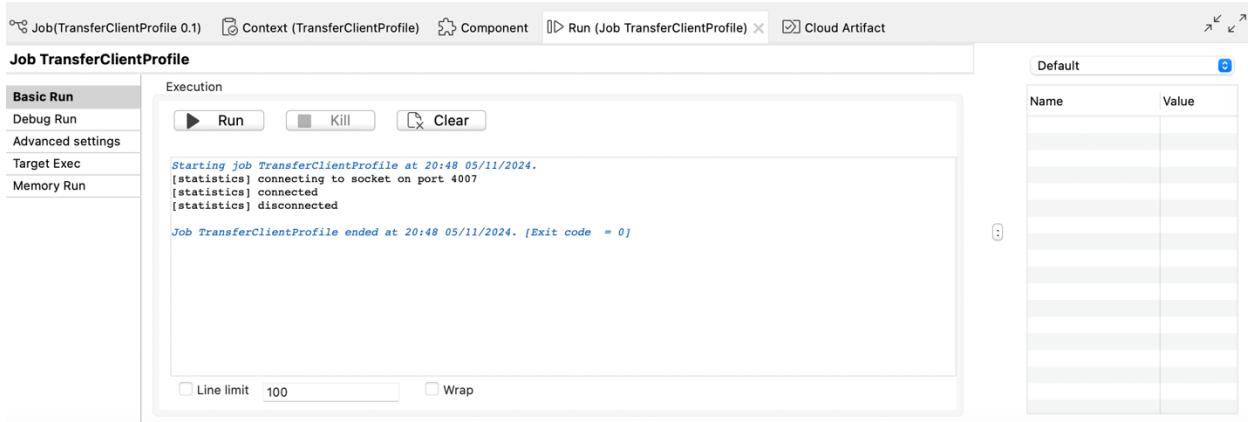
TimeData

Column	Key	Type	Nullab Date Pattern (Ctrl+Space Length)	Precision	Default	Comment
1 date		Date	<input checked="" type="checkbox"/> *yyyy-MM-dd*			
2 day		Integer	<input checked="" type="checkbox"/>			
3 month		Integer	<input checked="" type="checkbox"/>			
4 quarter		Integer	<input checked="" type="checkbox"/>			
5 year		Integer	<input checked="" type="checkbox"/>			

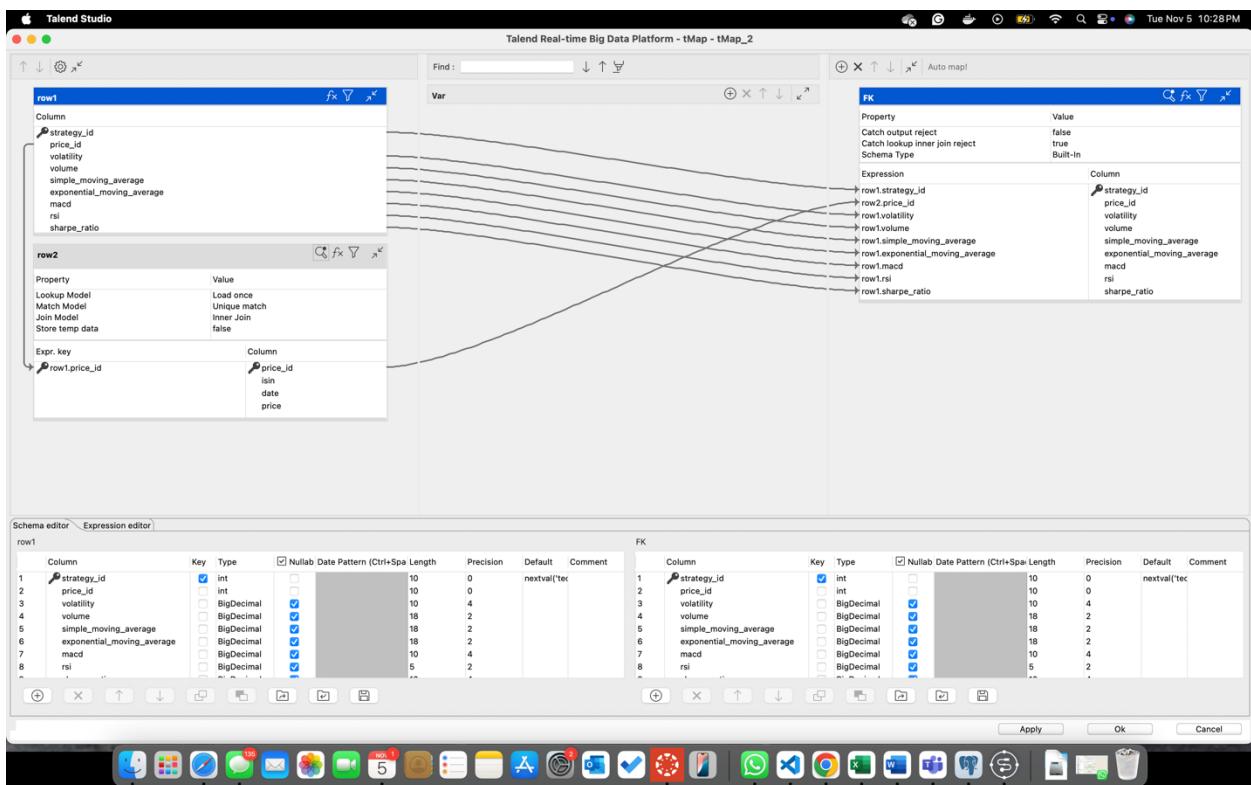
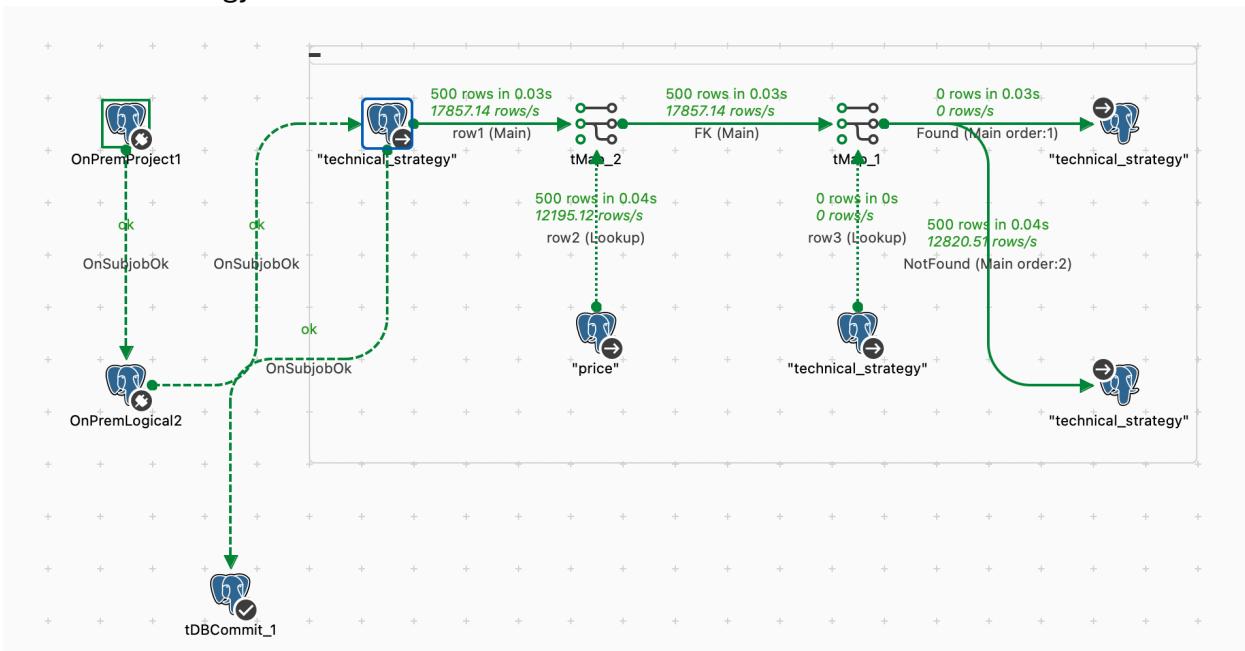
Apply Ok Cancel

Client Profile Transfer:





Technical Strategy Transfer:



Talend Real-time Big Data Platform - tMap - tMap_1

Found

Expression	Column
row1.strategy_id	strategy_id
FK.price_id	price_id
FK.volatility	volatility
FK.volume	volume
FK.simple_moving_average	simple_moving_average
FK.exponential_moving_average	exponential_moving_average
FK.macd	macd
FK.rsi	rsi
row1.sharpe_ratio	sharpe_ratio

NotFound

Property	Value
Catch output reject	false
Catch lookup inner join reject	true
Schema Type	Built-in

Column

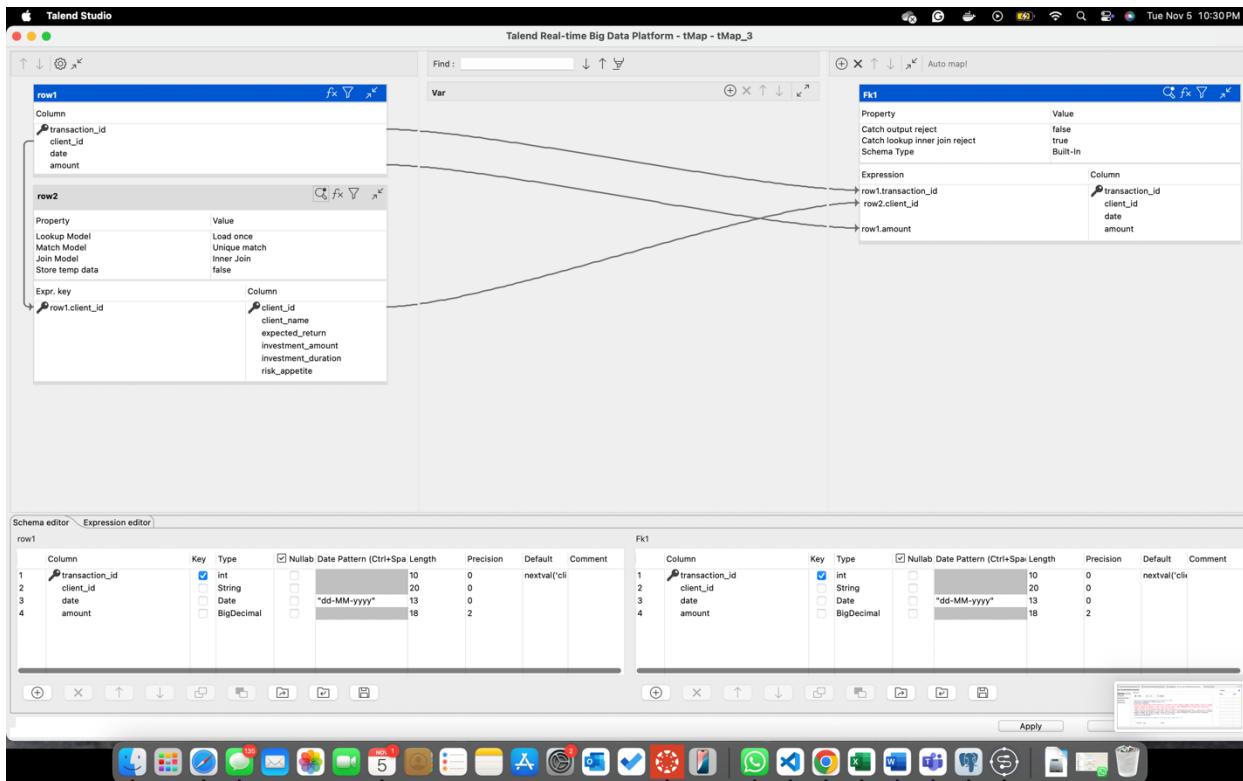
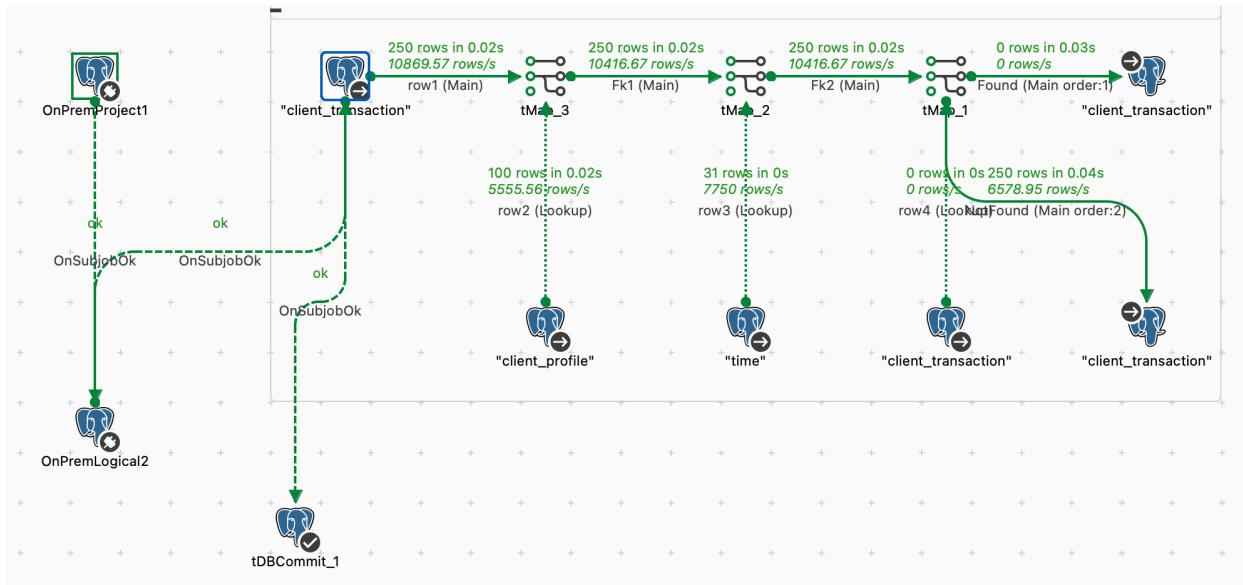
Column
strategy_id
price_id
volatility
volume
simple_moving_average
exponential_moving_average
macd
rsi
sharpe_ratio

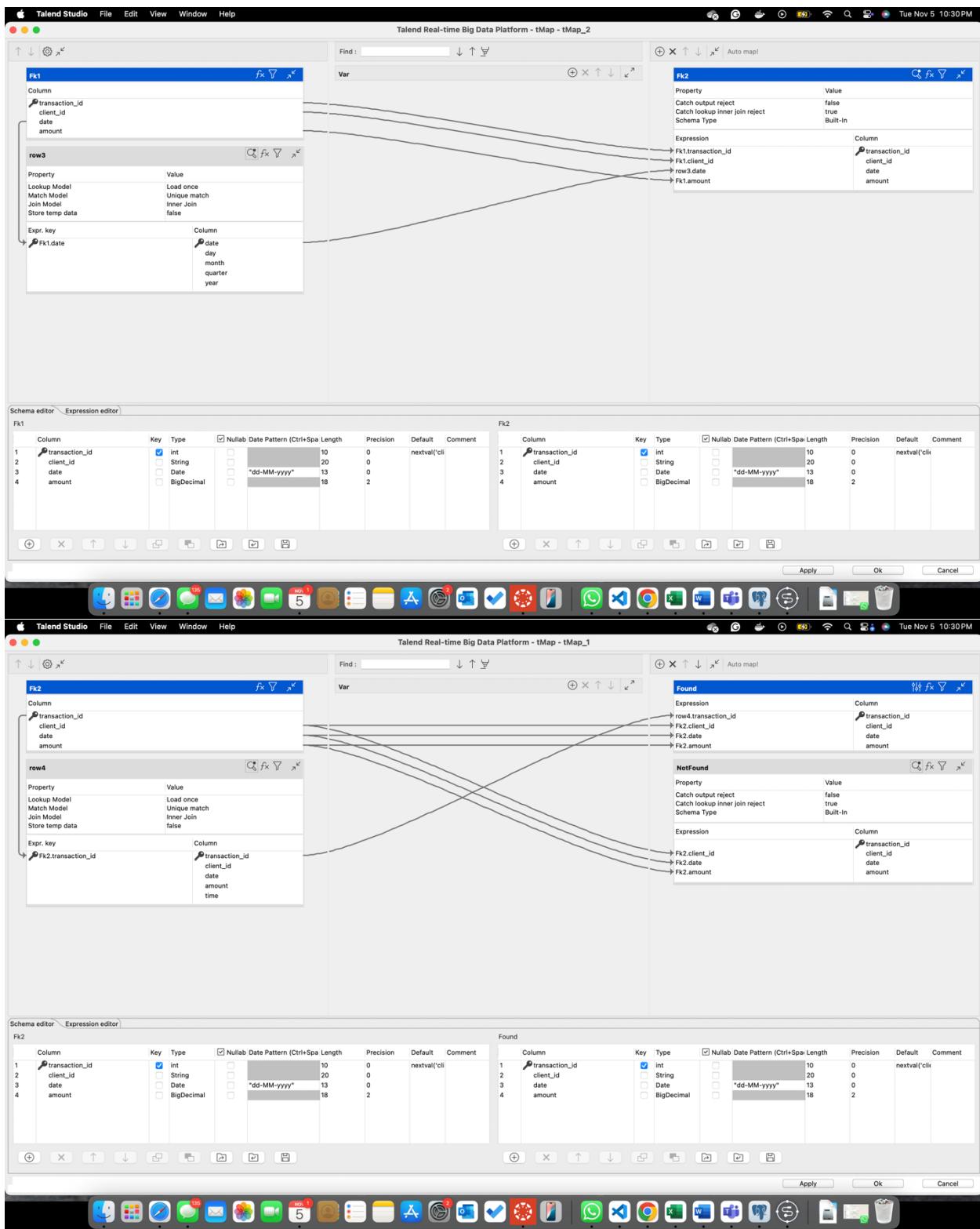
Schema editor

Column	Type	Nullab Date Pattern (Ctrl+Space)	Precision	Default	Comment
strategy_id	int		10	0	nextval('tec')
price_id	int		10	0	
volatility	BigDecimal		10	4	
volume	BigDecimal		18	2	
simple_moving_average	BigDecimal		18	2	
exponential_moving_average	BigDecimal		18	2	
macd	BigDecimal		10	4	
rsi	BigDecimal		5	2	

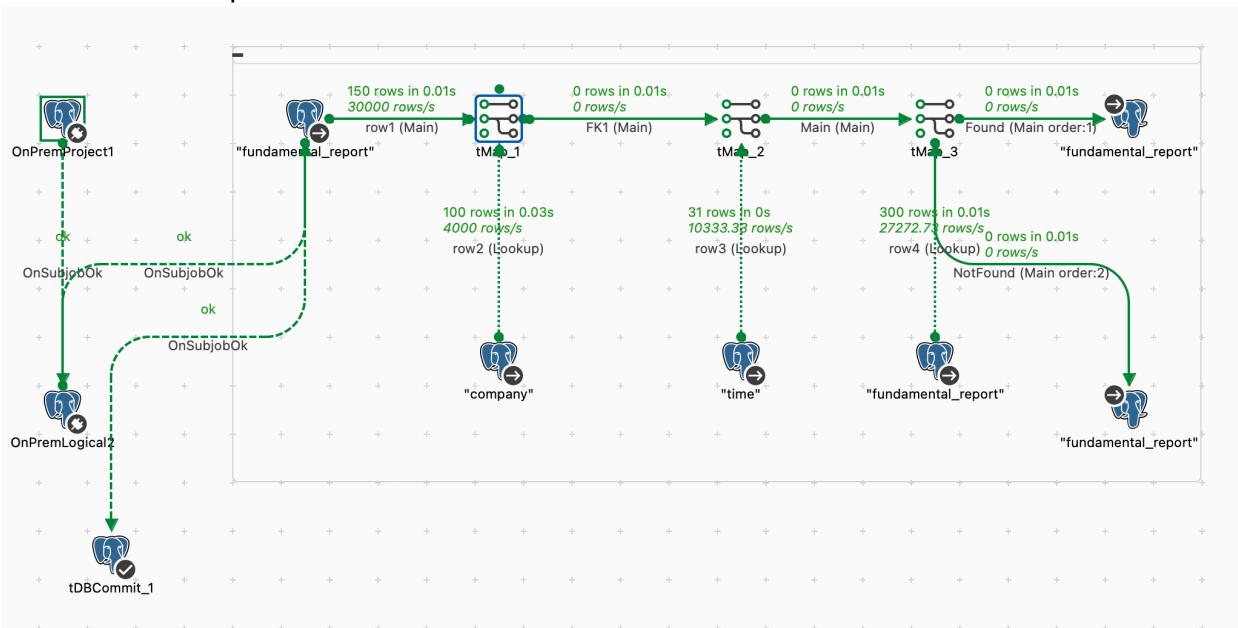
Column	Type	Nullab Date Pattern (Ctrl+Space)	Precision	Default	Comment
strategy_id	int		10	0	nextval('tec')
price_id	int		10	0	
volatility	BigDecimal		10	4	
volume	BigDecimal		18	2	
simple_moving_average	BigDecimal		18	2	
exponential_moving_average	BigDecimal		18	2	
macd	BigDecimal		10	4	
rsi	BigDecimal		5	2	

Client Transaction Transfer:





Fundamental Report Transfer:



This screenshot shows the configuration of the tMap component used in the job flow. The interface includes:

- Row1:** A schema editor for the source table with columns: report_id, isin, date, pe_ratio, debt, dividend, earnings_per_share.
- Row2:** A schema editor for the target table with columns: isin, ticker, name, sector, market_cap. It specifies a unique match based on the Expr. key row1.isin.
- FK1:** A configuration panel for the foreign key join with properties: Catch output reject (false), Catch lookup inner join reject (true), Schema Type (Built-In). It maps row1.report_id to row2.isin and row1.pe_ratio to row2.pe_ratio.
- Schema editor:** A detailed view of the column mappings between Row1 and Row2, including data types and precision.

Talend Studio File Edit View Window Help

Talend Real-time Big Data Platform - tMap - tMap_2

FK1

Column	
report_id	
isin	
date	
pe_ratio	
debt	
dividend	
earnings_per_share	

row3

Property	Value
Model	Unique match
Match Model	Inner match
Join Model	Join
Store temp data	false

Expr. key	Column
FK1.date	date day month quarter year

Main

Property	Value
Catch output reject	false
Catch lookup inner join reject	true
Schema Type	Built-In

Expression	Column
FK1.report_id	report_id
FK1.isin	isin
row3.date	date
FK1.pe_ratio	pe_ratio
FK1.debt	debt
FK1.dividend	dividend
FK1.earnings_per_share	earnings_per_share

Schema editor Expression editor

FK1

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
1 report_id		int	<input checked="" type="checkbox"/>		10	0		nextval('fur')
2 isin		String	<input checked="" type="checkbox"/>		12	0		
3 date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
4 pe_ratio		BigDecimal	<input type="checkbox"/>		10	2		
5 debt		BigDecimal	<input checked="" type="checkbox"/>		18	2		
6 dividend		BigDecimal	<input checked="" type="checkbox"/>		10	2		
7 earnings_per_share		BigDecimal	<input checked="" type="checkbox"/>		10	2		

Main

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
1 report_id		int	<input checked="" type="checkbox"/>		10	0		nextval('fur')
2 isin		String	<input checked="" type="checkbox"/>		12	0		
3 date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
4 pe_ratio		BigDecimal	<input checked="" type="checkbox"/>		10	2		
5 debt		BigDecimal	<input checked="" type="checkbox"/>		18	2		
6 dividend		BigDecimal	<input checked="" type="checkbox"/>		10	2		
7 earnings_per_share		BigDecimal	<input checked="" type="checkbox"/>		10	2		

Talend Studio File Edit View Window Help

Talend Real-time Big Data Platform - tMap - tMap_3

Main

Column	
report_id	
isin	
date	
pe_ratio	
debt	
dividend	
earnings_per_share	

row4

Property	Value
Model	Load once
Match Model	Unique match
Join Model	Inner Join
Store temp data	false

Expr. key	Column
row4.report_id	report_id isin date pe_ratio debt dividend earnings_per_share

Found

Property	Value
Catch output reject	false
Catch lookup inner join reject	true
Schema Type	Built-In

Expression	Column
row4.report_id	report_id
Main.isin	isin
Main.date	date
Main.pe_ratio	pe_ratio
Main.debt	debt
Main.dividend	dividend
Main.earnings_per_share	earnings_per_share

NotFound

Property	Value
Catch output reject	false
Catch lookup inner join reject	true
Schema Type	Built-In

Expression	Column
Main.isin	report_id
Main.date	isin
Main.pe_ratio	date
Main.debt	pe_ratio
Main.dividend	debt
Main.earnings_per_share	dividend

Schema editor Expression editor

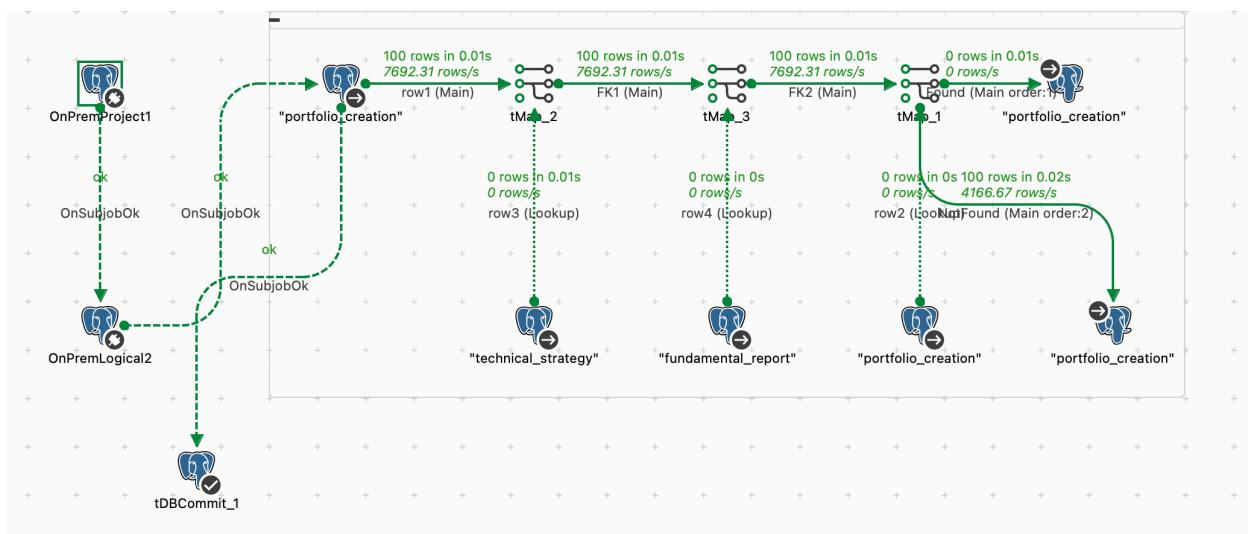
Main

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
1 report_id		int	<input checked="" type="checkbox"/>		10	0		nextval('fur')
2 isin		String	<input checked="" type="checkbox"/>		12	0		
3 date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
4 pe_ratio		BigDecimal	<input checked="" type="checkbox"/>		10	2		
5 debt		BigDecimal	<input type="checkbox"/>		18	2		
6 dividend		BigDecimal	<input checked="" type="checkbox"/>		10	2		
7 earnings_per_share		BigDecimal	<input checked="" type="checkbox"/>		10	2		

Found

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
1 report_id		int	<input checked="" type="checkbox"/>		10	0		nextval('fur')
2 isin		String	<input type="checkbox"/>		12	0		
3 date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
4 pe_ratio		BigDecimal	<input checked="" type="checkbox"/>		10	2		
5 debt		BigDecimal	<input checked="" type="checkbox"/>		18	2		
6 dividend		BigDecimal	<input checked="" type="checkbox"/>		10	2		
7 earnings_per_share		BigDecimal	<input checked="" type="checkbox"/>		10	2		

Portfolio Creation Transfer:



Talend Studio - Talend Real-time Big Data Platform - tMap - tMap_2

Row1 Schema Editor

Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
portfolio_id	int	✓		10	0	nextval('po')	
strategy_id	Integer	✓		10	0		
report_id	Integer	✓		10	0		
date	Date			"dd-MM-yyyy"	13	0	

Row3 Schema Editor

Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
portfolio_id	int	✓		10	0	nextval('po')	
strategy_id	Integer	✓		10	0		
report_id	Integer	✓		10	0		
date	Date			"dd-MM-yyyy"	13	0	

FK1 Expression Editor

Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
row1.date	Date			"dd-MM-yyyy"	13	0	

FK2 Expression Editor

Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
FK1.portfolio_id	int	✓		10	0	nextval('po')	
FK1.strategy_id	Integer	✓		10	0		
FK1.report_id	Integer	✓		10	0		
FK1.date	Date			"dd-MM-yyyy"	13	0	

Talend Studio - Talend Real-time Big Data Platform - tMap - tMap_3

FK1 Expression Editor

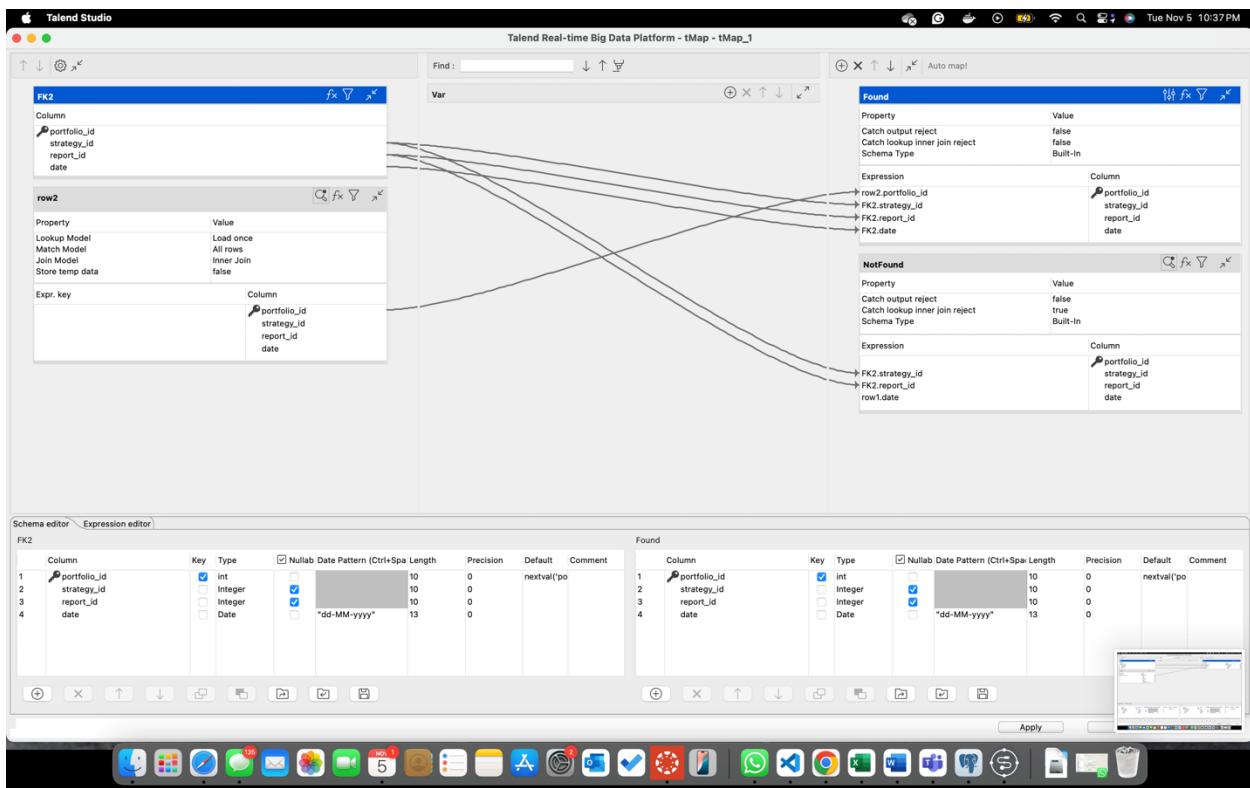
Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
row1.date	Date			"dd-MM-yyyy"	13	0	

FK2 Expression Editor

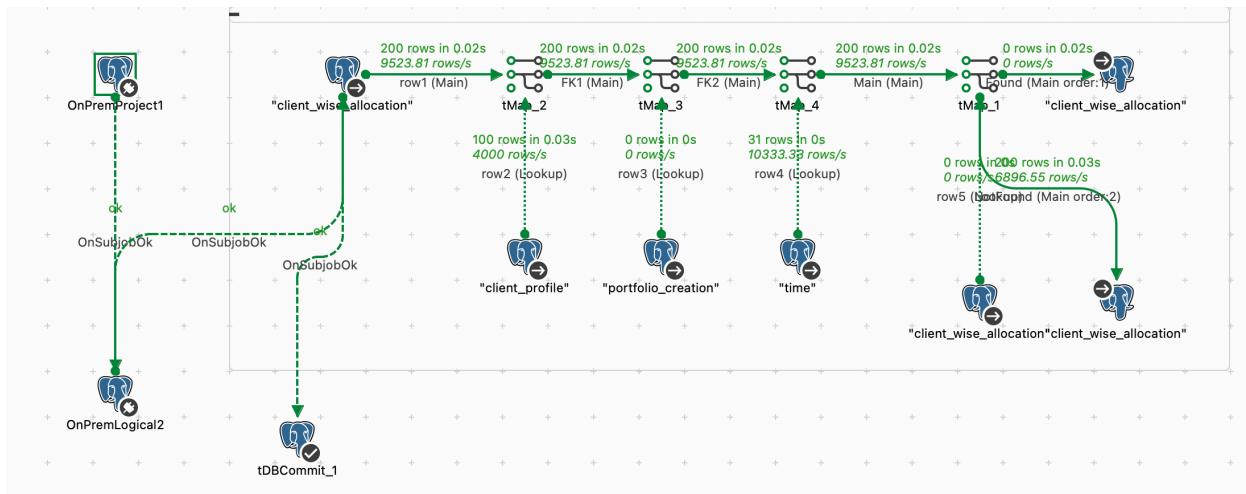
Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
FK1.portfolio_id	int	✓		10	0	nextval('po')	
FK1.strategy_id	Integer	✓		10	0		
FK1.report_id	Integer	✓		10	0		
FK1.date	Date			"dd-MM-yyyy"	13	0	

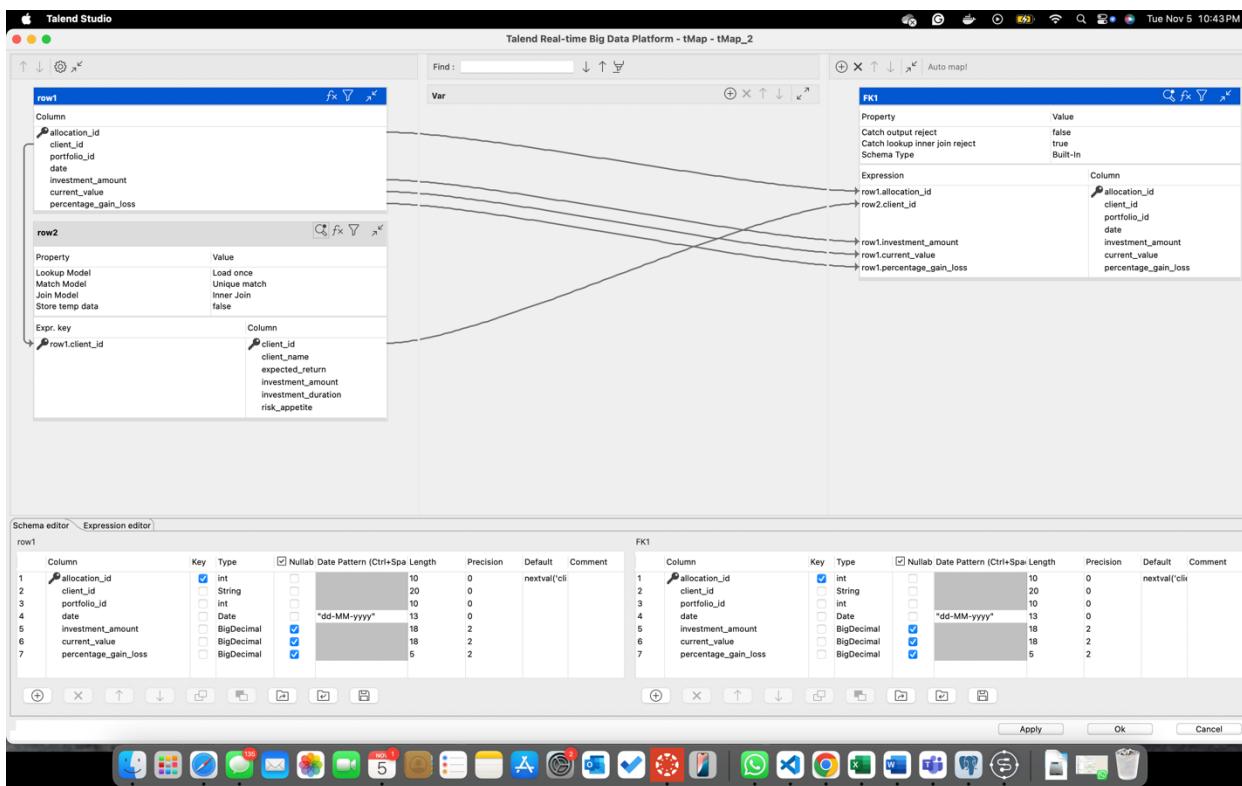
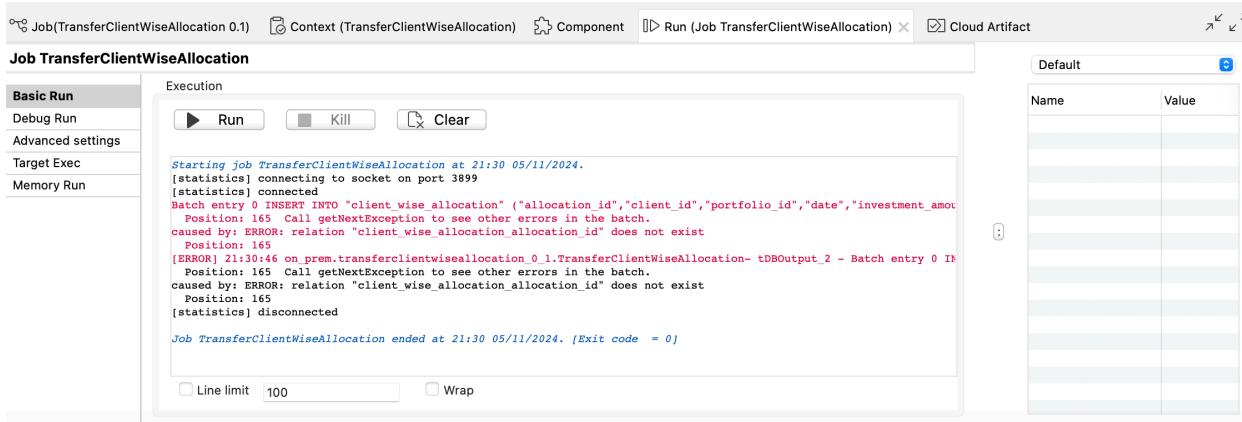
Row4 Schema Editor

Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
report_id	int	✓		10	0	nextval('po')	
isin	String						
date	Date			"dd-MM-yyyy"	13	0	
price	Double						
ratio	Double						
debt	Double						
dividend	Double						
earnings_per_share	Double						



Client Wise Allocation Transfer:





Talend Studio - Talend Real-time Big Data Platform - tMap - tMap_3

FK1

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
allocation_id		int	<input checked="" type="checkbox"/>		10	0	nextval('cli'
client_id		String	<input type="checkbox"/>		20	0	
portfolio_id		int	<input type="checkbox"/>		10	0	
date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0	
investment_amount		BigDecimal	<input type="checkbox"/>		18	2	
current_value		BigDecimal	<input checked="" type="checkbox"/>		18	2	
percentage_gain_loss		BigDecimal	<input checked="" type="checkbox"/>		5	2	

row3

Expr. key Column
FK1.portfolio_id portfolio_id strategy_id report_id date

FK2

Expression	Column
FK1.allocation_id	allocation_id
FK1.client_id	client_id
FK1.portfolio_id	portfolio_id
row3.portfolio_id	date
FK1.investment_amount	investment_amount
FK1.current_value	current_value
FK1.percentage_gain_loss	percentage_gain_loss

Schema editor / Expression editor

FK1

FK2

Talend Studio - Talend Real-time Big Data Platform - tMap - tMap_4

FK2

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
allocation_id		int	<input checked="" type="checkbox"/>		10	0	nextval('cli'
client_id		String	<input type="checkbox"/>		20	0	
portfolio_id		int	<input type="checkbox"/>		10	0	
date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0	
investment_amount		BigDecimal	<input type="checkbox"/>		18	2	
current_value		BigDecimal	<input checked="" type="checkbox"/>		18	2	
percentage_gain_loss		BigDecimal	<input checked="" type="checkbox"/>		5	2	

row4

Expr. key Column
FK2.date date day month quarter year

Main

Expression	Column
FK2.allocation_id	allocation_id
FK2.client_id	client_id
FK2.portfolio_id	portfolio_id
row4.date	date
FK2.investment_amount	investment_amount
FK2.current_value	current_value
FK2.percentage_gain_loss	percentage_gain_loss

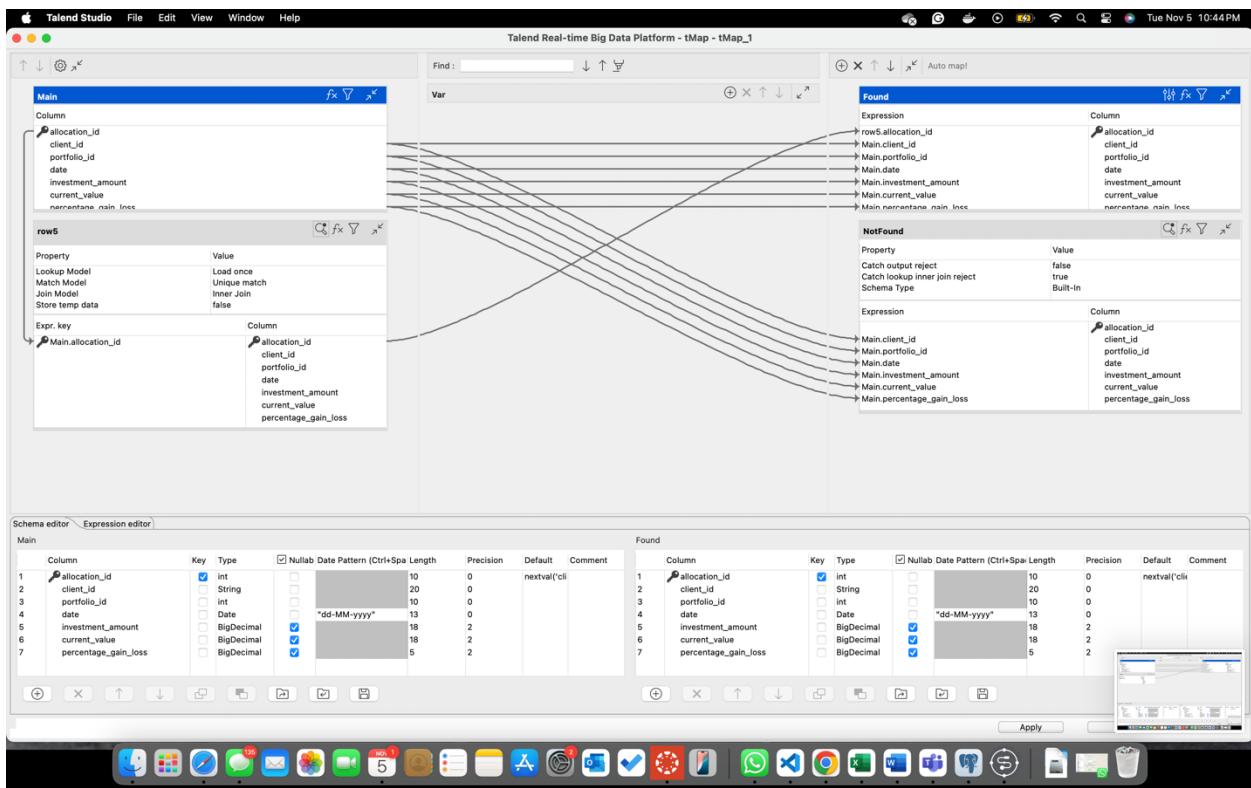
Schema editor / Expression editor

FK2

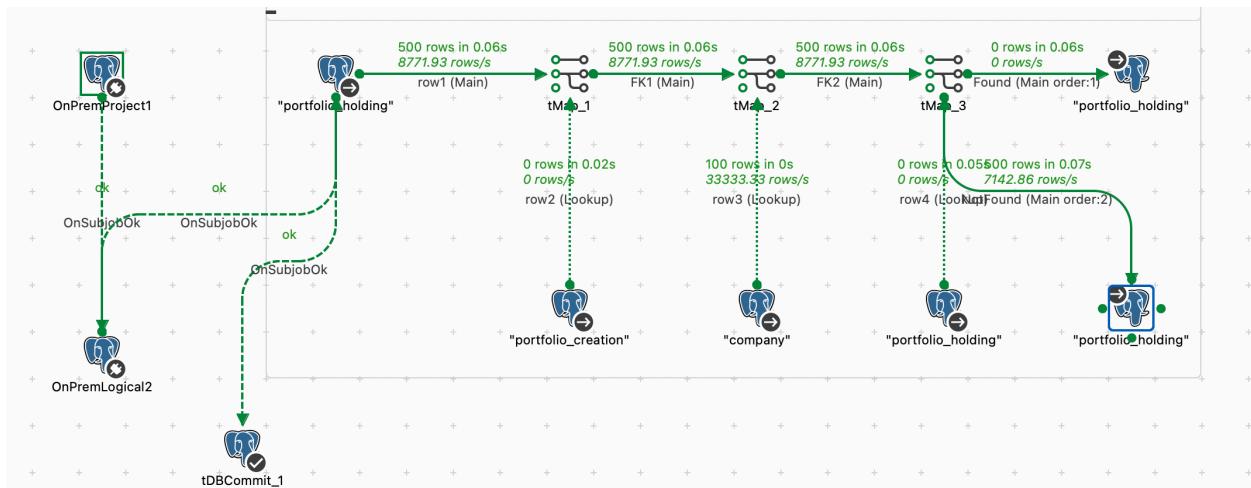
Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
allocation_id		int	<input checked="" type="checkbox"/>		10	0	nextval('cli'
client_id		String	<input type="checkbox"/>		20	0	
portfolio_id		int	<input type="checkbox"/>		10	0	
date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0	
investment_amount		BigDecimal	<input type="checkbox"/>		18	2	
current_value		BigDecimal	<input checked="" type="checkbox"/>		18	2	
percentage_gain_loss		BigDecimal	<input checked="" type="checkbox"/>		5	2	

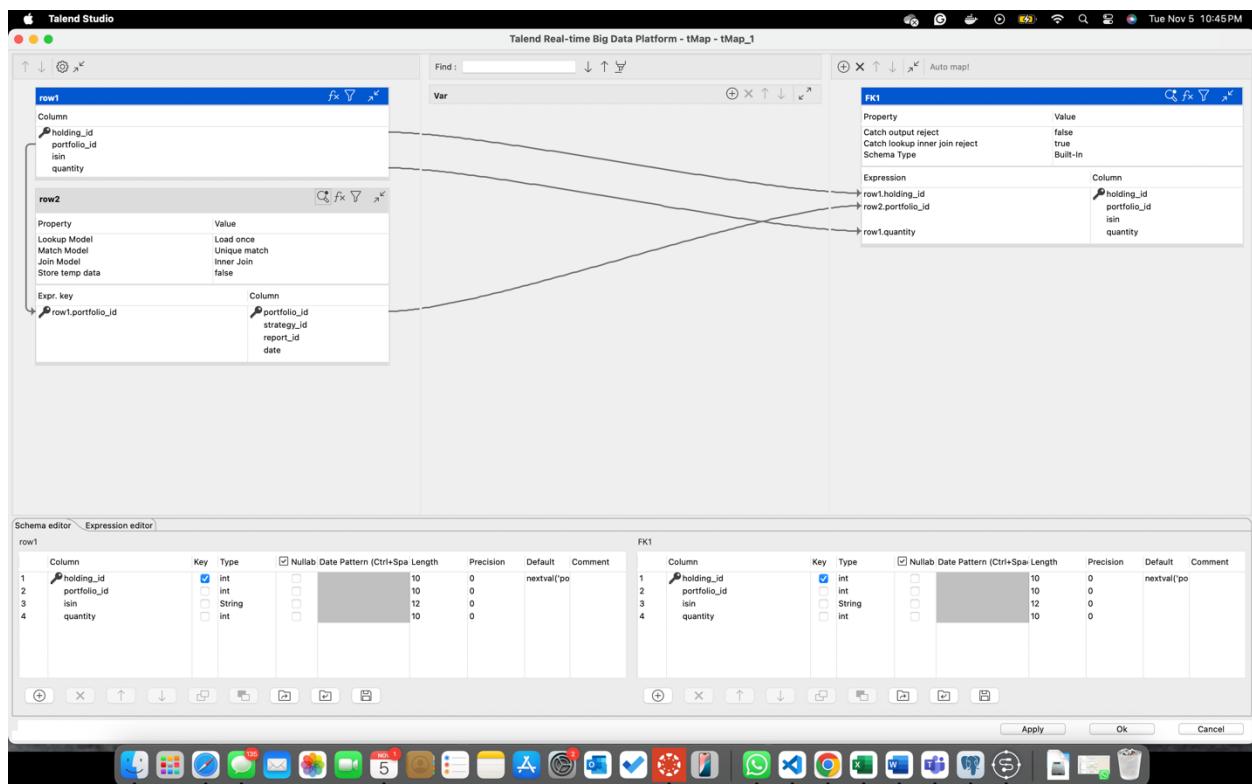
Main

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
allocation_id		int	<input checked="" type="checkbox"/>		10	0	nextval('cli'
client_id		String	<input type="checkbox"/>		20	0	
portfolio_id		int	<input type="checkbox"/>		10	0	
date		Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0	
investment_amount		BigDecimal	<input type="checkbox"/>		18	2	
current_value		BigDecimal	<input checked="" type="checkbox"/>		18	2	
percentage_gain_loss		BigDecimal	<input checked="" type="checkbox"/>		5	2	



Portfolio Holding Transfer:

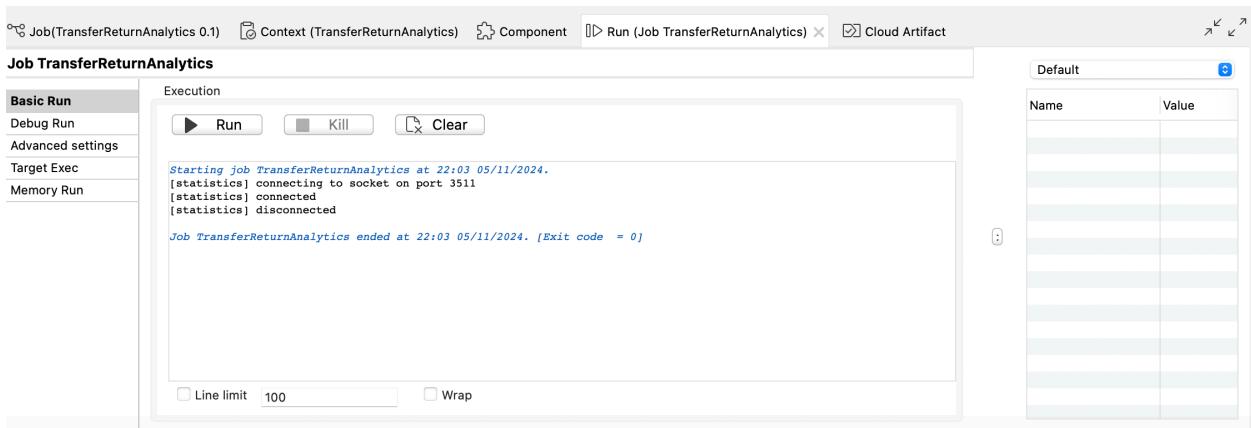
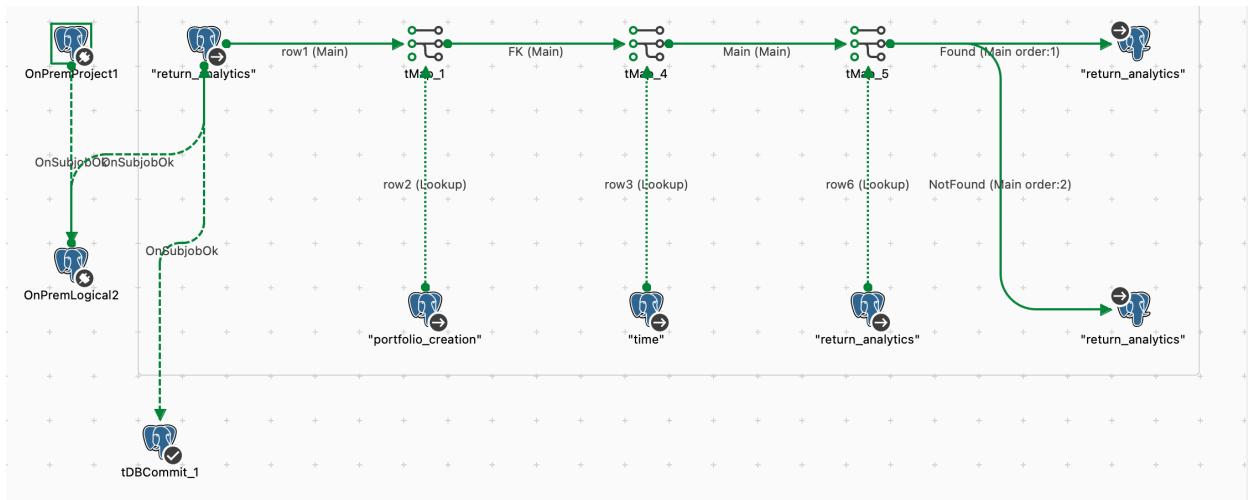




Talend Studio - Talend Real-time Big Data Platform - tMap - tMap_2

Talend Studio - Talend Real-time Big Data Platform - tMap - tMap_3

Return Analytics Transfer:



Talend Studio

Talend Real-time Big Data Platform - tMap - tMap_1

Row1

Row2

Expr. key

Schema editor \ Expression editor

row1

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
return_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		nextval('ret')
portfolio_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		
date	<input type="checkbox"/>	Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
benchmark_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		
portfolio_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		

FK

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
return_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		nextval('ret')
portfolio_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		
date	<input type="checkbox"/>	Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
benchmark_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		
portfolio_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		

Var

Auto map!

Property

- Catch output reject: false
- Catch lookup inner join reject: true
- Schema Type: Built-In

Expression

- row1:return_id → row2:portfolio_id
- row1:portfolio_id → row2:portfolio_id
- row1:benchmark_return → row2:portfolio_return
- row1:portfolio_return → row2:portfolio_return

Column

row1

row2

Expr. key

Schema editor \ Expression editor

row3

FK

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
return_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		nextval('ret')
portfolio_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		
date	<input type="checkbox"/>	Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
benchmark_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		
portfolio_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		

Main

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
return_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		nextval('ret')
portfolio_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		
date	<input type="checkbox"/>	Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
benchmark_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		
portfolio_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		

Var

Auto map!

Property

- Catch output reject: false
- Catch lookup inner join reject: true
- Schema Type: Built-In

Expression

- FK.return_id → FK.portfolio_id
- FK.date → row3:date
- FK.benchmark_return → FK.portfolio_return
- FK.portfolio_return → FK.portfolio_return

Column

FK

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
return_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		nextval('ret')
portfolio_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		
date	<input type="checkbox"/>	Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
benchmark_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		
portfolio_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		

Main

Column	Key	Type	Nullab	Date Pattern (Ctrl+Space)	Length	Precision	Default	Comment
return_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		nextval('ret')
portfolio_id	<input checked="" type="checkbox"/>	int	<input type="checkbox"/>		10	0		
date	<input type="checkbox"/>	Date	<input type="checkbox"/>	"dd-MM-yyyy"	13	0		
benchmark_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		
portfolio_return	<input type="checkbox"/>	BigDecimal	<input checked="" type="checkbox"/>		5	2		

Var

Auto map!

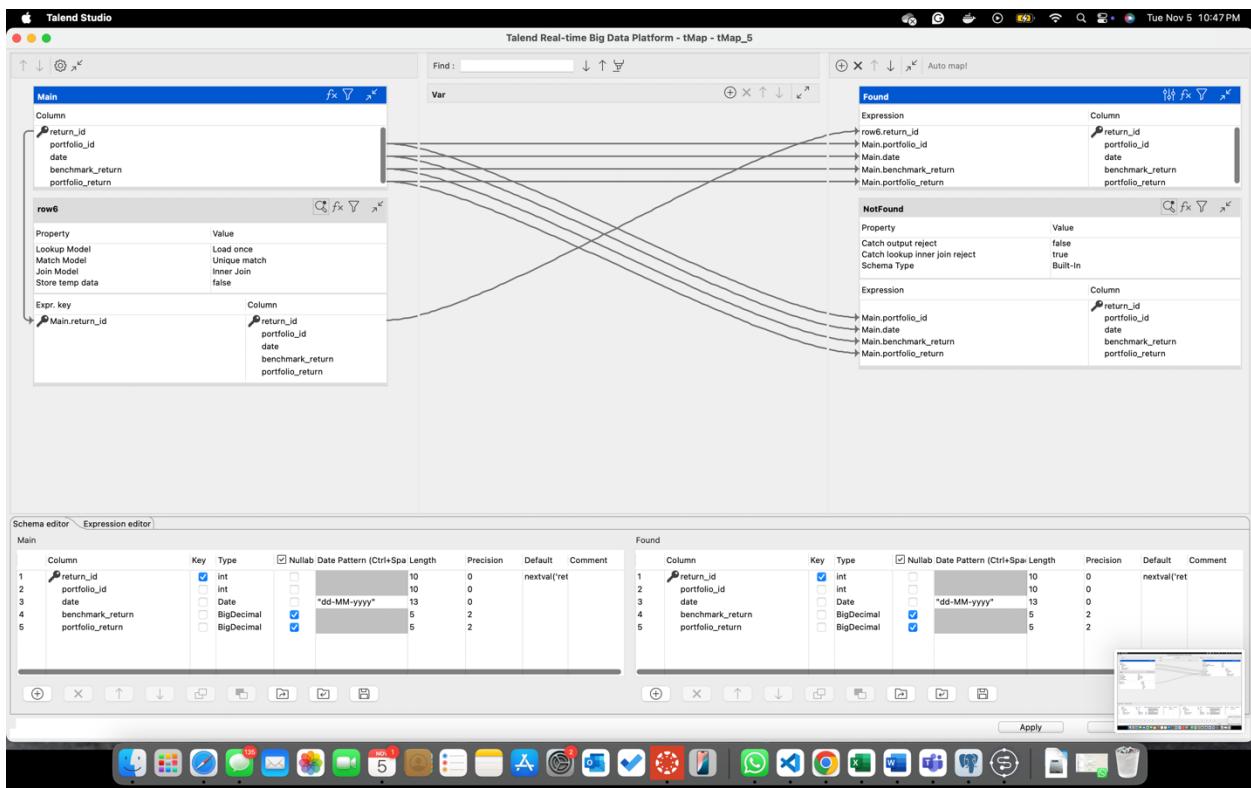
Property

- Catch output reject: false
- Catch lookup inner join reject: true
- Schema Type: Built-In

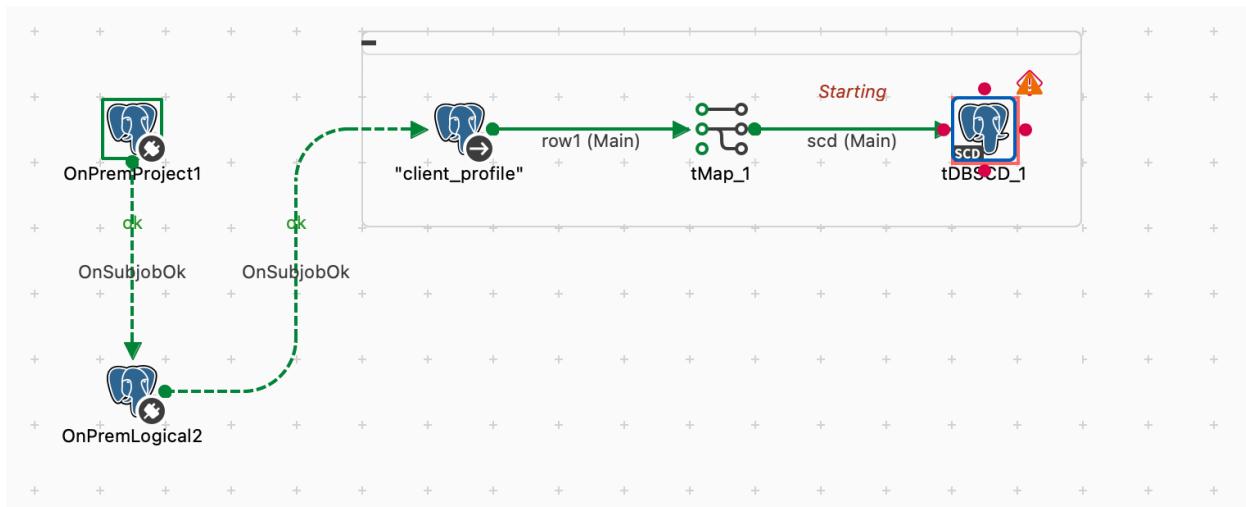
Expression

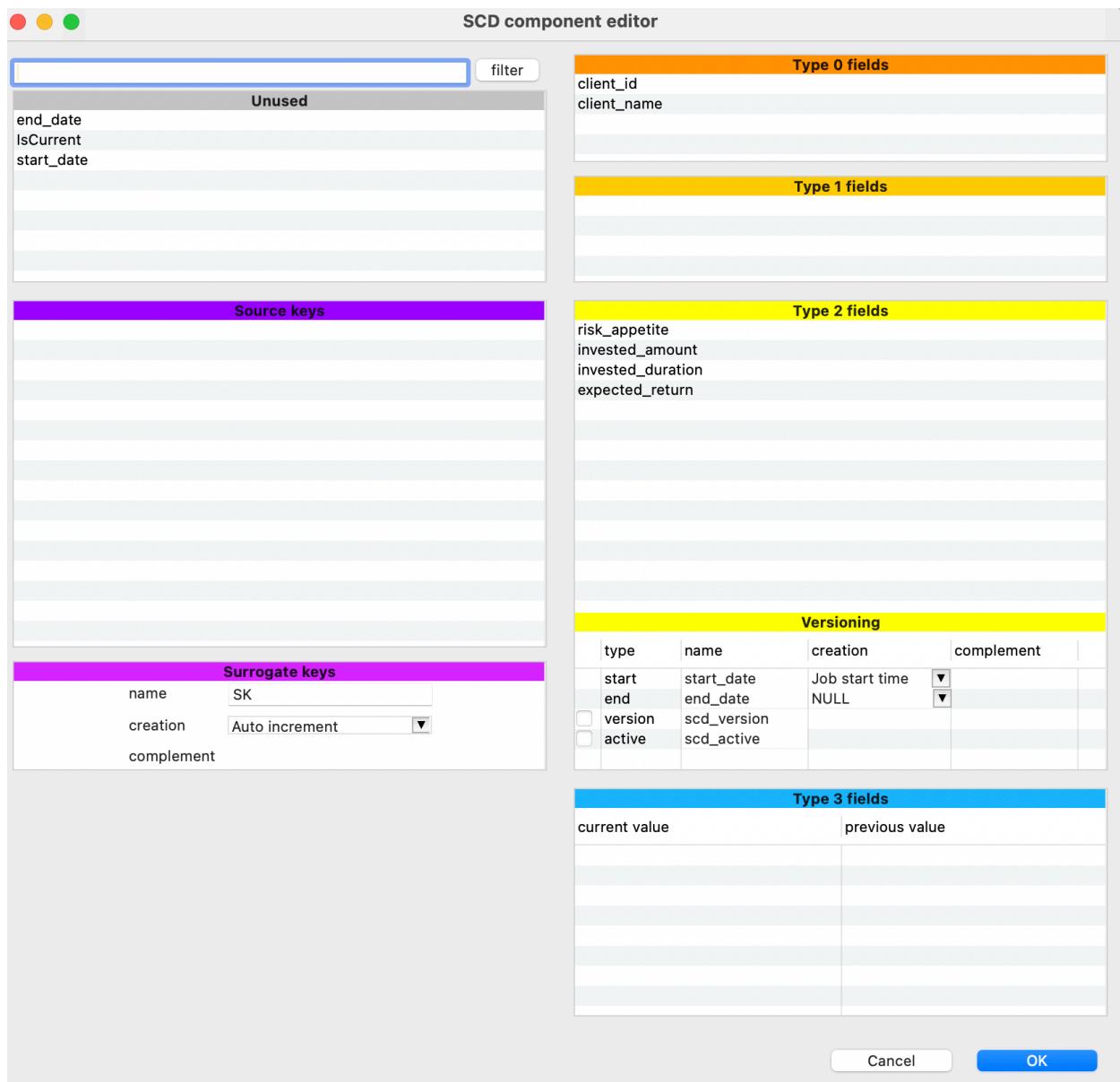
- FK.return_id → FK.portfolio_id
- FK.date → row3:date
- FK.benchmark_return → FK.portfolio_return
- FK.portfolio_return → FK.portfolio_return

Column



SCD Implementation:





Talend Studio

Talend Real-time Big Data Platform - tMap - tMap_1

Row1

Column	Expression	Column
client_id	row1.client_id	client_id
client_name	row1.client_name	client_name
expected_return	row1.expected_return	expected_return
investment_amount	row1.investment_amount	invested_amount
investment_duration	row1.investment_duration	invested_duration
risk_appetite	row1.risk_appetite	risk_appetite

scd

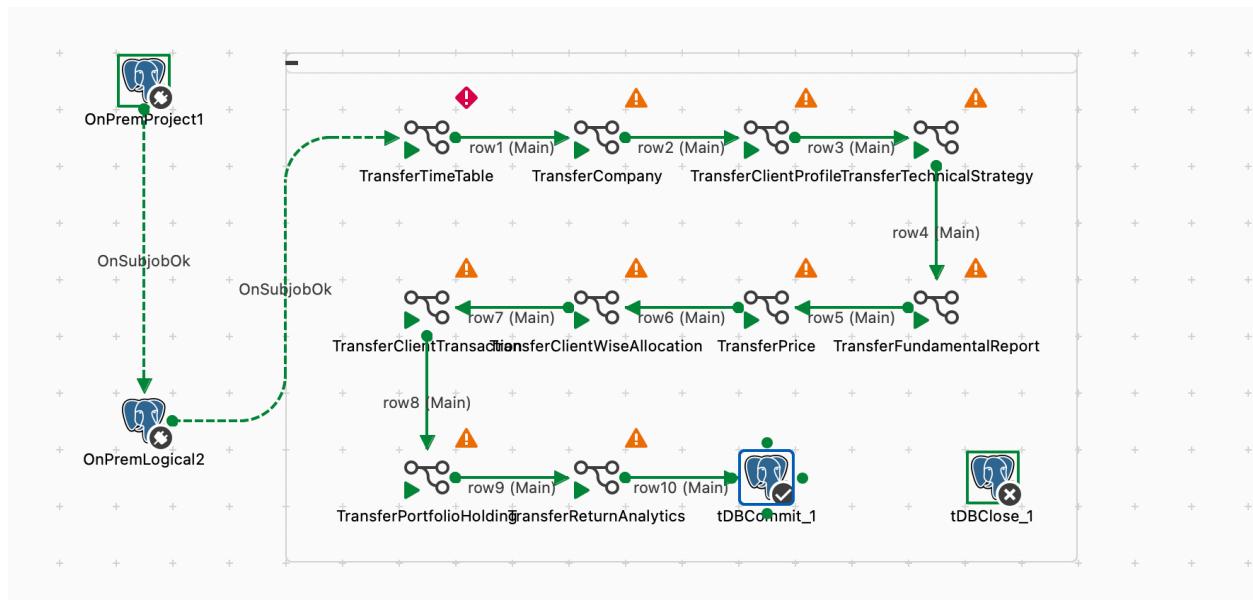
Column	Expression	Column
client_id	row1.client_id	client_id
client_name	row1.client_name	client_name
expected_return	row1.expected_return	expected_return
investment_amount	row1.investment_amount	invested_amount
investment_duration	row1.investment_duration	invested_duration
risk_appetite	row1.risk_appetite	risk_appetite
start_date		start_date
end_date		end_date

Schema editor Expression editor

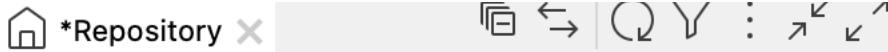
Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
1 client_id	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		20	0	
2 client_name	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		100	0	
3 expected_return	BigDecimal	<input type="checkbox"/>	<input checked="" type="checkbox"/>		5	2	
4 investment_amount	BigDecimal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		18	2	
5 investment_duration	Integer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		10	0	
6 risk_appetite	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		20	0	

Column	Type	Key	Nullab	Date Pattern (Ctrl+Space)	Precision	Default	Comment
1 client_id	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
2 client_name	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
3 expected_return	BigDecimal	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
4 invested_amount	BigDecimal	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
5 invested_duration	Integer	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
6 risk_appetite	String	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
7 start_date	Date	<input type="checkbox"/>	<input checked="" type="checkbox"/>				"dd-MM-yyyy"
8 end_date	Date	<input type="checkbox"/>	<input checked="" type="checkbox"/>				"dd-MM-yyyy"

Apply Ok Cancel



Database Connections:



LOCAL: On_Prem

✓ ⚙ Job Designs

✓ ⚙ Standard

- ⌚ ControlFlow 0.1
- ⌚ SCD 0.1
- ⌚ TransferClientProfile_Copy 0.1
- ⌚ TransferClientProfile 0.1
- ⌚ TransferClientTransaction 0.1
- ⌚ TransferClientWiseAllocation 0.1
- ⌚ TransferCompany 0.1
- ⌚ TransferFundamentalReport 0.1
- ⌚ TransferPortfolioCreation 0.1
- ⌚ TransferPortfolioHolding 0.1
- ⌚ TransferPrice 0.1
- ⌚ TransferReturnAnalytics 0.1
- ⌚ TransferTechnicalStrategy 0.1
- ⌚ TransferTimeTable 0.1

> ⚙ Joblet Designs

⌚ Contexts

> </> Code

> 📄 SQL Templates

✓ 🗂 Metadata

✓ ⚡ Db Connections

- ✓ ⚡ OnPremLogical2 0.1
 - 📄 Queries
 - 📄 Synonym schemas
- > 📄 Table schemas
 - 📄 View schemas
- ✓ ⚡ OnPremProject1 0.1
 - 📄 Queries
 - 📄 Synonym schemas
- > 📄 Table schemas
 - 📄 View schemas