



Jobs

Generated by Talend Cloud Real-Time Big Data Platform

Project Name	ServerlessDemo	GENERATION DATE	Dec 4, 2018 7:49:48 PM
AUTHOR	Balkenende, Mark	Talend Cloud VERSION	7.1.1.20181026_1147

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Project Description

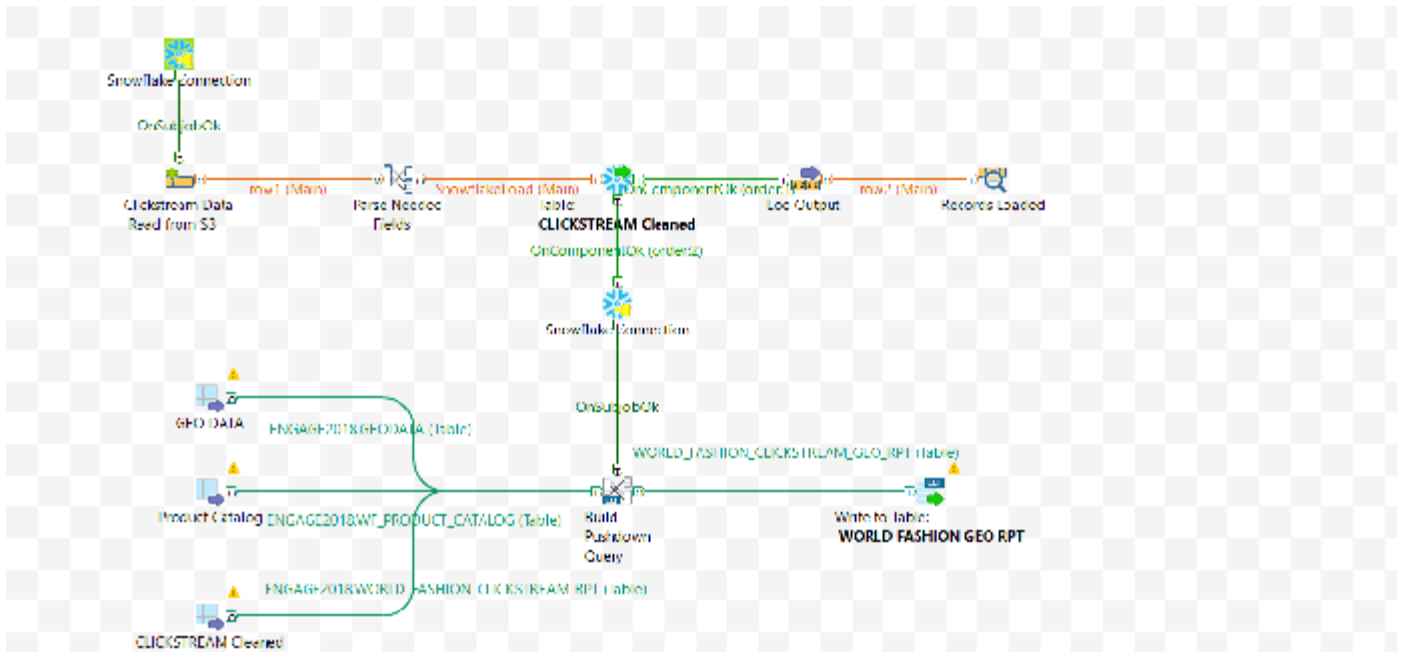
Properties	Values
Name	ServerlessDemo
Language	java

Description	Deploy to Containers
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Description

Properties	Values
Name	clickstreamtosnowflake
Author	Balkenende, Mark
Version	0.1
Purpose	
Status	
Description	This Job reads clickstream weblogs Loads to Snowflake And uses pushdown to process
Creation	Apr 25, 2018 2:13:43 AM
Modification	Dec 3, 2018 11:31:41 PM

Preview Picture



Settings

Extra settings

Name	Value
COMP_DEFAULT_FILE_DIR	
Multi thread execution	false
Implicit tContextLoad	false

Status & Logs

Name	Value
Use statistics (tStatCatcher)	false
Use logs (tLogCatcher)	false

Use volumetrics (tFlowMeterCatcher)	false
On Console	false
On Files	false
On Databases	false
Catch components statistics	false
Catch runtime errors	true
Catch user errors	true
Catch user warnings	true

Context List

ContextDefault

Name	Prompt	Need Prompt?	Type	Value	Source
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Component List

Component Name	Component Type
tDBConnection_1	tSnowflakeConnection
tDBConnection_2	tSnowflakeConnection

tDBOutput_1	tSnowflakeOutput
tELTInput_1	tELTInput
tELTInput_2	tELTInput
tELTInput_3	tELTInput
tELTMap_1	tELTMap
tELTOutput_1	tELTOutput
tFixedFlowInput_1	tFixedFlowInput
tLogRow_1	tLogRow
tMap_1	tMap
tRowGenerator_1	tRowGenerator

Components Description

Component tSnowflakeConnection

	UNIQUE NAME	tDBConnection_1	INPUT(S)	tDBOutput_1
	LABEL	Snowflake Connection	OUTPUT(S)	tELTMap_1


Component Parameters:

Properties	Values
Database	tSnowflakeConnection

Unique Name	tDBConnection_1
Component Name	tSnowflakeConnection
Family	Cloud/Snowflake
Start	false
Startable	true
SUBTREE_START	true
END_OF_FLOW	true
Activate	true
Help	HELP
Update components	true
IREPORT_PATH	
Property Type	Built-In
Query Type	Built-In
tStatCatcher Statistics	false
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
Account	"talendcdw"
Snowflake Region	
User Id	*****
Password	*****
Warehouse	"DEMO_WH"

Schema	"ENGAGE2018"
Database	"ENGAGE"
Use Custom Snowflake Region	false
Region ID	
Login Timeout	15
Tracing	OFF
Role	""
Label format	Snowflake Connection
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Original Function Parameters:
Component tSnowflakeConnection

	UNIQUE NAME	tDBConnection_2	INPUT(S)	none
	LABEL	Snowflake Connection	OUTPUT(S)	tRowGenerator_1


Component Parameters:

Properties	Values
Database	tSnowflakeConnection

Unique Name	tDBConnection_2
Component Name	tSnowflakeConnection
Family	Cloud/Snowflake
Start	true
Startable	true
SUBTREE_START	true
END_OF_FLOW	true
Activate	true
Help	HELP
Update components	true
IREPORT_PATH	
Property Type	Built-In
Query Type	Built-In
tStatCatcher Statistics	false
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
Account	"talendcdw"
Snowflake Region	
User Id	"mark"
Password	"Usage2017!"
Warehouse	"DEMO_WH"

Schema	"ENGAGE2018"
Database	"ENGAGE"
Use Custom Snowflake Region	false
Region ID	
Login Timeout	15
Tracing	OFF
Role	""
Label format	Snowflake Connection
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Original Function Parameters:
Component **tSnowflakeOutput**

	UNIQUE NAME	tDBOutput_1	INPUT(S)	tMap_1
	LABEL	Table: CLICKSTREAM Cleaned	OUTPUT(S)	tFixedFlowInput_1 , tDBConnection_1

Component Parameters:

Properties	Values
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Database	tSnowflakeOutput
Unique Name	tDBOutput_1
Component Name	tSnowflakeOutput
Family	Cloud/Snowflake
Startable	false
SUBTREE_START	false
END_OF_FLOW	true
Activate	true
Help	HELP
Update components	true
IREPORT_PATH	
Property Type	Built-In
Query Type	Built-In
tStatCatcher Statistics	false
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
properties.referencedComponent.displayName	
Account	"talendcdw"
Snowflake Region	
User Id	*****
Password	*****


Warehouse	"DEMO_WH"
Schema	"ENGAGE2018"
Database	"ENGAGE"
Table	"WORLD_FASHION_CLICKSTREAM_RPT"
Schema	{"type": "record", "name": "WORLD_FASHION_CLICKSTREAM_RPT", "fields": [{"name": "SESSIONID"
Table Action	NONE
Output Action	INSERT
Upsert Key Column	SESSIONID
Use Custom Snowflake Region	false
Region ID	
Login Timeout	15
Tracing	OFF
Role	""
Convert columns and table to uppercase	true
Convert empty strings to null	true
Custom DB Type	false
DB column type	[]
schemaReject.schema	{"type": "record", "name": "rejectOutput", "fields": [{"name": "columnName", "type": "string", "talend.isLoca
REPOSITORY_ALLOW_AUTO_SWITCH	True
Label format	Table: CLICKSTREAM Cleaned
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row

Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for WORLD_FASHION_CLICKSTREAM_RPT :

Column	Key	Type	Length	Precision	Nullable	Comment
SESSIONID	false	String			true	
USERID	false	Integer			true	
PRODUCTID	false	Integer			true	
SESSIONTIME	false	java.util.Date			true	
IPADDRESS	false	String			true	
GEOCODE	false	Integer			true	

Original Function Parameters:
Component tELTInput

	UNIQUE NAME	tELTInput_1	INPUT(S)	none
	LABEL	CLICKSTREAM Cleaned	OUTPUT(S)	tELTMap_1

Component Parameters:

Properties	Values
Unique Name	tELTInput_1


Component Name	tELTInput
Version	0.102 (ALPHA)
Family	ELT/Map/DB_JDBC
Startable	false
SUBTREE_START	false
END_OF_FLOW	false
Activate	true
DUMMY	false
tStatCatcher Statistics	false
Help	org.talend.help.tELTInput
Update components	true
IREPORT_PATH	
JAVA_LIBRARY_PATH	C:\Talend\7.1.1 Cloud\Talend-Studio\configuration\lib\java
Subjob color	
Title color	
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
REPOSITORY_ALLOW_AUTO_SWITCH	true
Schema	Built-In
Default Table Name	"WORLD_FASHION_CLICKSTREAM_RPT"
Default Schema Name	"ENGAGE2018"

Mapping	snowflake_id
Label format	CLICKSTREAM Cleaned
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for WORLD_FASHION_CLICKSTREAM_RPT :

Column	Key	Type	Length	Precision	Nullable	Comment
SESSIONID	false				true	
USERID	false				true	
PRODUCTID	false				true	
SESSIONTIME	false				true	
IPADDRESS	false				true	
GEOCODE	false				true	

Original Function Parameters:
Component tELTInput

	UNIQUE NAME	tELTInput_2	INPUT(S)	none
	LABEL	GEO DATA	OUTPUT(S)	tELTMap_1

Component Parameters:

Properties	Values
Unique Name	tELTInput_2
Component Name	tELTInput
Version	0.102 (ALPHA)
Family	ELT/Map/DB_JDBC
Startable	false
SUBTREE_START	false
END_OF_FLOW	false
Activate	true
DUMMY	false
tStatCatcher Statistics	false
Help	org.talend.help.tELTInput
Update components	true
IREPORT_PATH	
JAVA_LIBRARY_PATH	C:\Talend\7.1.1 Cloud\Talend-Studio\configuration\lib\java
Subjob color	
Title color	
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
REPOSITORY_ALLOW_AUTO_SWITCH	true


Schema	Built-In
Default Table Name	"GEODATA"
Default Schema Name	"ENGAGE2018"
Mapping	snowflake_id
Label format	GEO DATA
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for GEODATA :

Column	Key	Type	Length	Precision	Nullable	Comment
IDGEODATA	false				true	
POSTALCODE	false				true	
CITY	false				true	
SHORTSTATE	false				true	
LONGSTATE	false				true	
ISO2	false				true	
ISO3	false				true	

LAT	false				true	
LONG	false				true	
TERRITORY	false				true	
TIMEZONE	false				true	
DISTANCE	false				true	

Original Function Parameters:
Component tELTInput

	UNIQUE NAME	tELTInput_3	INPUT(S)	none
	LABEL	Product Catalog	OUTPUT(S)	tELTMap_1

Component Parameters:


Properties	Values
Unique Name	tELTInput_3
Component Name	tELTInput
Version	0.102 (ALPHA)
Family	ELT/Map/DB_JDBC
Startable	false
SUBTREE_START	false
END_OF_FLOW	false
Activate	true
DUMMY	false

tStatCatcher Statistics	false
Help	org.talend.help.tELTInput
Update components	true
IREPORT_PATH	
JAVA_LIBRARY_PATH	C:\Talend\7.1.1 Cloud\Talend-Studio\configuration\lib\java
Subjob color	
Title color	
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
REPOSITORY_ALLOW_AUTO_SWITCH	true
Schema	Built-In
Default Table Name	"WF_PRODUCT_CATALOG"
Default Schema Name	"ENGAGE2018"
Mapping	snowflake_id
Label format	Product Catalog
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for WF_PRODUCT_CATALOG :

Column	Key	Type	Length	Precision	Nullable	Comment
PROD_ID	false				true	
BRAND	false				true	
CLOTHING_TYPE	false				true	
DESCRIPTION	false				true	
PRICE	false				true	
SIZE	false				true	

Original Function Parameters:
Component tELTOutput

	UNIQUE NAME	tELTOutput_1	INPUT(S)	tELTMap_1, tELTInput_2, tELTInput_3
	LABEL	Write to Table: WORLD FASHION GEO RPT	OUTPUT(S)	none

Component Parameters:

Properties	Values
Unique Name	tELTOutput_1
Component Name	tELTOutput
Version	0.102 (ALPHA)
Family	ELT/Map/DB_JDBC

Startable	false
SUBTREE_START	false
END_OF_FLOW	true
Activate	true
DUMMY	false
tStatCatcher Statistics	false
Help	org.talend.help.tELTOutput
Update components	true
IREPORT_PATH	
JAVA_LIBRARY_PATH	C:\Talend\7.1.1 Cloud\Talend-Studio\configuration\lib\java
Subjob color	
Title color	
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
Action on table	TRUNCATE
!!!CREATE_TABLE_TYPE.NAME!!!	SET
Action on data	INSERT
REPOSITORY_ALLOW_AUTO_SWITCH	TRUE
Schema	Built-In
Where clauses (for UPDATE and DELETE only)	""
Default Table Name	"WORLD_FASHION_CLICKSTREAM_GEO_RPT"

Default Schema Name	"ENGAGE2018"
Table name from connection name is variable	false
Use different table name	false
Table name	""
Mapping	snowflake_id
Label format	Write to Table: WORLD FASHION GEO RPT
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for WORLD_FASHION_CLICKSTREAM_GEO_RPT :

Column	Key	Type	Length	Precision	Nullable	Comment
SESSIONID	false				true	
USERID	false				true	
PRODUCTID	false				true	
SESSIONTIME	false				true	
IPADDRESS	false				true	
GEOCODE	false				true	

POSTALCODE	false				true	
CITY	false				true	
STATECD	false				true	
ISO3	false				true	
LAT	false				true	
LONG	false				true	
TERRITORY	false				true	
GEOHASHCODE	false				true	
BRAND	false				true	
PRICE	false				true	
SIZE	false				true	
CLOTHING_TYPE	false				true	
DESCRIPTION	false				true	

Original Function Parameters:
Component **tFixedFlowInput**

	UNIQUE NAME	tFixedFlowInput_1	INPUT(S)	tDBOutput_1
	LABEL	Log Output	OUTPUT(S)	tLogRow_1

Component Parameters:


Properties	Values
Unique Name	tFixedFlowInput_1
Component Name	tFixedFlowInput
Version	0.102 (ALPHA)
Family	Misc
Start	false
Startable	true
SUBTREE_START	true
END_OF_FLOW	false
Activate	true
DUMMY	false
tStatCatcher Statistics	false
Help	org.talend.help.tFixedFlowInput
Update components	true
IREPORT_PATH	
JAVA_LIBRARY_PATH	C:\Talend\7.1.1 Cloud\Talend-Studio\configuration\lib\java
Subjob color	
Title color	
Enable parallel execution	false
Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
REPOSITORY_ALLOW_AUTO_SWITCH	true

Schema	Built-In
Number of rows	1
Use Single Table	true
Values	[[{SCHEMA_COLUMN=CountOut, VALUE=((Integer)globalMap.get("tDBOutput_1_NB_SUCCESS"))}]
Use Inline Table	false
Inline Table	[]
Use Inline Content(delimited file)	false
Row Separator	"\n"
Field Separator	"," ,
Content	
Label format	Log Output
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row
Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for tFixedFlowInput_1 :

Column	Key	Type	Length	Precision	Nullable	Comment
CountOut	false	Integer			true	

Original Function Parameters:
Component tLogRow

	UNIQUE NAME	tLogRow_1	INPUT(S)	tFixedFlowInput_1
	LABEL	Records Loaded	OUTPUT(S)	none

Component Parameters:

Properties	Values
Unique Name	tLogRow_1
Component Name	tLogRow
Version	0.101 (ALPHA)
Family	Logs_Errors
Startable	false
SUBTREE_START	false
END_OF_FLOW	true
Activate	true
DUMMY	false
tStatCatcher Statistics	false
Help	org.talend.help.tLogRow
Update components	true
IREPORT_PATH	
JAVA_LIBRARY_PATH	C:\Talend\7.1.1 Cloud\Talend-Studio\configuration\lib\java
Subjob color	
Title color	
Enable parallel execution	false


Number of parallel executions	2
PARALLELIZE_KEEP_EMPTY	false
REPOSITORY_ALLOW_AUTO_SWITCH	true
Schema	Built-In
Basic	false
Table (print values in cells of a table)	true
Vertical (each row is a key/value list)	false
Print unique name	true
Print label	false
Print unique name and label	false
Field Separator	" "
Print header	false
Print component unique name in front of each output row	false
Print schema column name in front of each value	false
Use fixed length for values	false
Lengths	[{SCHEMA_COLUMN=CountOut, LENGTH=10}]
Print content with log4j	true
Min column number of optimize code	100
Label format	Records Loaded
Hint format	__UNIQUE_NAME__ __COMMENT__
Connection format	row

Show Information	false
Comment	
Use an existing validation rule	false
Validation Rule Type	

Schema for tLogRow_1 :

Column	Key	Type	Length	Precision	Nullable	Comment
CountOut	false	Integer			true	

Original Function Parameters:
Component tELTMap

	UNIQUE NAME	tELTMap_1	INPUT(S)	tELTMap_1 , tELTInput_2, tELTInput_3
	LABEL	Build Pushdown Query	OUTPUT(S)	tELTOutput_1

Mapper table for tELTMap_1 (input):

Mapper table Properties (ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT):

Properties	Values
Name	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT
Table Name	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT
Alias	
Join Type	NO_JOIN
isMinimized	false

Metadata Table Entries(ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT):

Name	Expression	Operator	isJoin
SESSIONID			false
USERID			false
PRODUCTID			false
SESSIONTIME			false
IPADDRESS			false
GEOCODE			false

Custom Conditions Entries(ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT):

Name	Expression	Operator	isJoin
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Mapper table Properties (ENGAGE2018.GEODATA):

Properties	Values
Name	ENGAGE2018.GEODATA
Table Name	ENGAGE2018.GEODATA
Alias	
Join Type	NO_JOIN
isMinimized	false

Metadata Table Entries(ENGAGE2018.GEODATA):

Name	Expression	Operator	isJoin
IDGEODATA	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.GEOCODE=		false
POSTALCODE			false
CITY			false
SHORTSTATE			false
LONGSTATE			false
ISO2			false
ISO3			false
LAT			false
LONG			false
TERRITORY			false
TIMEZONE			false
DISTANCE			false

Custom Conditions Entries(ENGAGE2018.GEODATA):

Name	Expression	Operator	isJoin
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Mapper table Properties (ENGAGE2018.WF_PRODUCT_CATALOG):

Properties	Values
Name	ENGAGE2018.WF_PRODUCT_CATALOG
Table Name	ENGAGE2018.WF_PRODUCT_CATALOG
Alias	
Join Type	NO_JOIN
isMinimized	false

Metadata Table Entries(ENGAGE2018.WF_PRODUCT_CATALOG):

Name	Expression	Operator	isJoin
PROD_ID	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.PRODUCTID=		f
BRAND			f
CLOTHING_TYPE			f
DESCRIPTION			f
PRICE			f
SIZE			f

Custom Conditions Entries(ENGAGE2018.WF_PRODUCT_CATALOG):

Name	Expression	Operator	isJoin
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Mapper table for tELTMap_1 (output):

Mapper table Properties (table2):

Properties	Values
Name	table2
Table Name	WORLD_FASHION_CLICKSTREAM_GEO_RPT
Alias	
Join Type	
isMinimized	false

Metadata Table Entries(table2):


Name	Expression	Operator
SESSIONID	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.SESSIONID	
USERID	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.USERID	
PRODUCTID	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.PRODUCTID	
SESSIONTIME	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.SESSIONTIME	
IPADDRESS	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.IPADDRESS	
GEOCODE	ENGAGE2018.WORLD_FASHION_CLICKSTREAM_RPT.GEOCODE	
POSTALCODE	ENGAGE2018.GEODATA.POSTALCODE	
CITY	ENGAGE2018.GEODATA.CITY	
STATECD	ENGAGE2018.GEODATA.SHORTSTATE	

ISO3	ENGAGE2018.GEODATA.ISO3	
LAT	ENGAGE2018.GEODATA.LAT	
LONG	ENGAGE2018.GEODATA.LONG	
TERRITORY	ENGAGE2018.GEODATA.TERRITORY	
GEOHASHCODE	'1'	
BRAND	ENGAGE2018.WF_PRODUCT_CATALOG.BRAND	
PRICE	ENGAGE2018.WF_PRODUCT_CATALOG.PRICE	
SIZE	ENGAGE2018.WF_PRODUCT_CATALOG.SIZE	
CLOTHING_TYPE	ENGAGE2018.WF_PRODUCT_CATALOG.CLOTHING_TYPE	
DESCRIPTION	ENGAGE2018.WF_PRODUCT_CATALOG.DESCRPTION	

Custom Conditions Entries(table2):

Name	Expression	Operator	isJoin
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Component tMap

	UNIQUE NAME	tMap_1	INPUT(S)	tRowGenerator_1
	LABEL	Parse Needed Fields	OUTPUT(S)	tDBOutput_1

Component Parameters:

Properties	Values
tStatCatcher Statistics	false
Enable parallel execution	false
Mapping links display as:	AUTO
Temp data directory path:	
Max buffer size (nb of rows):	2000000
Ignore trailing zeros for BigDecimal	true
Show Information	false
Comment	
Use an existing validation rule	false

Mapper table for tMap_1 (input):

Mapper table Properties(row1):

Properties	Values
Name	row1
Matching-mode	UNIQUE_MATCH
isMinimized	false
isReject	false
isRejectInnerJoin	false
isInnerJoin	false
expressionFilter	null

Metadata Table Entries(row1):

Name	Type	Expression	isNullable
SessionID	String		true
UserID	Integer		true
ProductID	Integer		true
Sessiontime	java.util.Date		true
ipAddress	String		true
geoCode	Integer		true

Constraint Table Entries(row1):

Name	Type	Expression	isNullable
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Mapper table for tMap_1 (output):
Mapper table Properties(SnowflakeLoad):

Properties	Values
Name	SnowflakeLoad
Matching-mode	
isMinimized	false
isReject	false
isRejectInnerJoin	false
isInnerJoin	false
expressionFilter	null

Metadata Table Entries(SnowflakeLoad):

Name	Type	Expression	isNullable
SESSIONID	String	row1.SessionID + Numeric.random(11111,99999)	true
USERID	Integer	row1.UserID	true
PRODUCTID	Integer	row1.ProductID	true
SESSIONTIME	java.util.Date	row1.Sessiontime	true
IPADDRESS	String	Numeric.random(52,199)+"."+ Numeric.random(52,99)+"."+ Numeric.random(52,99)+"."+ Numeric.random(52,999)	true
GEOCODE	Integer	row1.geoCode	true

Constraint Table Entries(SnowflakeLoad):

Name	Type	Expression	isNullable
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Mapper table for tMap_1 (var):

Mapper table Properties(Var):

Properties	Values
Name	Var
Matching-mode	
isMinimized	true
isReject	false
isRejectInnerJoin	false
isInnerJoin	false
expressionFilter	null


Metadata Table Entries(Var):

Name	Type	Expression	isNullable
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Constraint Table Entries(Var):

Name	Type	Expression	isNullable
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Component tRowGenerator

	UNIQUE NAME	tRowGenerator_1	INPUT(S)	tDBConnection_2 , tELTInput_1
	LABEL	Clickstream Data Read from S3	OUTPUT(S)	tMap_1

Component Parameters:

Properties	Values
tStatCatcher Statistics	false
Enable parallel execution	false
Show Information	false
Comment	
Use an existing validation rule	false

Row generator information for tRowGenerator_1 :

Column	Key	Type	Nullable	Length	Precision	Default	Comment	Functions	Param
SessionID	false	String	true					getAsciiRandomString(6)	
UserID	false	Integer	true					random(1 ,2000111)	
ProductID	false	Integer	true					random(1 ,99)	
Sessiontime	false	java.util.Date	true					getCurrentDate()	
ipAddress	false	String	true					getUsCity()	
geoCode	false	Integer	true					random(100 ,48000)	