

# **Working with Load Step**

**Intellicus Enterprise Reporting and BI Platform** 



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For details, visit: <u>http://www.intellicus.com/acknowledgements.htm</u>



#### Contents

Load Step	1
Loading into File	1
Loading into NOSQL (HBASE)	
Loading into HDFS	5



Contents

## **Load Step**

Load step under Query Object loads the incoming data (after extraction and transformation) into a target system (File, Relational database, HDFS, No SQL / Columnar system etc.) to be used for further reporting needs.

Let us see properties specific to selected target connection ('Read Only' property is unchecked while creating connection to target system) required to load data.

### Loading into File

Transformation				
DEFA				
•			III	
Properties	Result			
Target Connection:	CSVFile			
File Properties				
Target File Name:	MSSQL_Time.csv	Suffix TimeStamp		
If File Exists:	Append Data			
Encoding:	ASCII			
Compression:	NONE			
Row Properties				
Line Separator:	\r\n	✓ Include Header		
Split After N Rows:		✓ Ignore Empty Rows		
Column Properties				
Enclosure:	"	Separator: ,		
Error Handling				
Error Threshold:				

Figure 1: Loading into File



The properties of Load step (in case target system is a file system) are:

Property		Values	Commonts
Target Connection			Collect a target connection on
larget Connection		Select from	Select a target connection on
	T 151 N	list	which data should be loaded
File	larget File Name	Select from	Select target file name using
Properties		list	the selected larget Connection
	If File Exists	Select from	Action to be performed in case
		list:	file exists:
		Append Data	To append data in the end
		Skip Load	To not perform any action on file and skip load step
		Delete and Create New File	To delete existing file and create a new file with the same name
	Encoding	Select from list	Option to encode the file in available formats (ASCII, ISO- 8859-1, UTF-8)
	Compression	Select from list	Option to create the file in compressed format (zip & gzip)
	Suffix TimeStamp	Check/Uncheck	Check= suffix timestamp in the chosen format to file. Select from the available list
Row Line Separator Properties		Type Yourself	Specify a separator to distinguish rows/records
	Split After N Rows	Type Yourself	Option to split the output into multiple files.
			Splitting will be performed on the basis of number of records.
			Blank/0 means no splitting. Any
			output after that many records
	Include Header	Check/Uncheck	Check= includes header from file/table.
			only for new file
	Ignore Empty Rows	Check/Uncheck	Check= ignores empty rows in table while loading
Column Properties	Enclosure	Type Yourself	Specify enclosure for column values
	Separator	Type Yourself	Specify the column separator
Error Handling	Error Threshold	Type Yourself	Specify count of error after which loading process should stop
			Any positive numbers maans
			stop processing after that many
			$\pm 1$ errors i a if its value is 2
			stan processing upon 2rd arror



## Loading into NOSQL (HBASE)

Transformation				
DatetimeData	Loa	d		
<				III
Properties Result				
Target Connection: HBASE				
Table Properties				
Target Table Name: HbaseDate	•	<ul> <li>Suffix TimeStan</li> </ul>	np	<b>~</b>
If Table Exists: Append Data		_		
Row Properties				
Row Key: UNIQUEID	•			
DataType: SIGNEDINT				
Error Handling				
Error Thrashold:				
Error miesnolu.				
Column Properties				
Fetch Schema				
Field Name	Column Family	Column Name	Hbase Data Type	
Image: Burger Burge	cf	PURCHASEDATE	DATE -	
PRODUCTNAME -	cf	PRODUCTNAME	STRING -	

Figure 2: Loading into NOSQL

The properties of Load step (in case target system is an HBASE system) are:

Property		Values		Comments
Target Connection		Select	from	Select a target connection on
		list		which data should be loaded
Table	Target Table	Select	from	Select target table name using
Properties	Name	list		the selected Target Connection
	If Table Exists	Select	from	Action to be performed in case
		list:		table exists:
		Append D	ata	To append data in the end
		Skip Load		To not perform any action on
				table and skip load step



Working with Load Step

		Drop and Create New Table	To drop the table and create new table with same name and new schema
	Suffix TimeStamp	Check/Uncheck	Check= suffix timestamp in the chosen format to table.
Row Properties	Row Key	Select from list of available fields	Unique identifier/field for each row
	DataType	Select from list	Data Type of the Row Key
Error Handling	Error Threshold	Type Yourself	Specify count of error after which loading process should stop. Any positive number>0 means stop processing after that many +1 errors i.e. if its value is 2, stop processing upon 3rd error
Column Properties	Fetch Schema	Click the option	Fetches schema of the existing table. You can see the field details of the data to be loaded under Column Properties section
	Remove All Columns	Click the option	Removes all columns in the target table

## Loading into HDFS

Transformation	
Data Source	Load
Properties	Result
Target Connection:	Connection25
File Properties	
File Properties	
Target File Name:	/user/intellicus/Load/Mobile/1 🖫 🔲 Suffix TimeStamp
If File Exists:	Append Data
Encoding:	ASCII
Compression:	ZIP
Row Properties	
Line Separator:	Vr\n Include Header
Split After N Rows:	Ignore Empty Rows
Column Properties	
Enclosure:	" Separator: ,
Error Handling	
Error Throchold	
Error Threshold:	

Figure 3: Loading into HDFS

The properties of Load step (in case target system is HDFS) are:

Property		Values		Comments
Target Connection		Select list	from	Select a target connection on which data should be loaded
File Properties	Target File Name	Select list	from	Select target file name using the selected Target Connection. You should have Read/Write/Execute access permissions on the target directory to select target file from
	If File Exists	Select list:	from	Action to be performed in case file exists:



		Append Data	To append data in the end
		Skip Load	To not perform any action on file and skip load step
		Delete and Create New File	To delete existing file and create a new file with the same name
	Encoding	Select from list	Option to encode the file in available formats (ASCII, ISO- 8859-1, UTF-8)
	Compression	Select from list	Option to create the file in compressed format (zip & gzip)
	Suffix TimeStamp	Check/Uncheck	Check= suffix timestamp in the chosen format to file.
Row Properties	Row Line Separator Type Yourself		Specify a separator to distinguish rows/records
	Split After N Rows	Type Yourself	Option to split the output into multiple files. Splitting will be performed on the basis of number of records. Blank/0 means no splitting. Any positive number means split the output after that many records
	Include Header	Check/Uncheck	Check= includes header from file/table. This option will be applicable only for new file
	Ignore Empty Rows	Check/Uncheck	Check= ignores empty rows in table while loading
Column Properties	Enclosure	Type Yourself	Specify enclosure for column values
	Separator	Type Yourself	Specify the column separator
Error Handling	Error Threshold	Type Yourself	Specify count of error after which loading process should stop. Any positive number>0 means stop processing after that many +1 errors i.e. if its value is 2, stop processing upon 3rd error

You can run and schedule Query Objects which are of Load type from under Data Model.

Running a Query Object will execute the transformation and load the data into target system. You can also schedule the query object in once or recurring mode.

Load step can also be followed by the Data Source step further followed by Format step to be used for generating reports.

