

EXAMPLE - Base64 Encoding Functions

This example demonstrates base64 encoding functions in Trifacta Self-Managed Enterprise Edition.

- `BASE64ENCODE` - converts an input string to base64 encoding, with optional padding at the end. See *BASE64ENCODE Function*.
- `BASE64DECODE` - converts an input base64encoded-string back to ASCII text. See *BASE64DECODE Function*.

Source:

The following example contains three columns of different data types:

IntegerField	StringField	ssn
-2082863942	This is a test string.	987654321
2012994989	"Hello, world."	987654322
-1637187918	"Hello, world. Hello, world. Hello, world."	987654323
-1144194035	fyi	987654324
-971872543		987654325
353977583	This is a test string.	987-65-4321
-366583667	"Hello, world."	987-65-4322
-573117553	"Hello, world. Hello, world. Hello, world."	987-65-4323
2051041970	fyi	987-65-4324
522691086		987-65-4325

Transformation - encode:

You can use the following transformation to encode all of the columns in your dataset:

Transformation Name	Edit column with formula
Parameter: Columns	All
Parameter: Formula	<code>base64encode(\$col, true)</code>

Results - encode:

The transformed dataset now looks like the following. Note the padding (equals signs) at the end of some of the values. Padding is added by default.

IntegerField	StringField	ssn
LTlwODI4NjM5NDI=	VGhpcyBpcyBhIHRlc3Qgc3RyaW5nLg==	OTg3NjU0Mzlx
MjAxMjk5NDk4OQ==	IkhbGxvLCB3b3JsZC4i	OTg3NjU0Mzly
LTE2MzcxODc5MTg=	IkhbGxvLCB3b3JsZC4gSGVsbG8sIHdvcmxkLiBIZWxsbywgZD29ybGQulG==	OTg3NjU0MzIz
LTExNDQxOTQwMzU=	Znlp	OTg3NjU0MzI0
LTk3MTg3MjU0Mw==		OTg3NjU0MzI1
MzUzOTc3NTgz	VGhpcyBpcyBhIHRlc3Qgc3RyaW5nLg==	OTg3LTY1LTQzMjE=
LTM2NjU4MzY2Nw==	IkhbGxvLCB3b3JsZC4i	OTg3LTY1LTQzMjI=

LTU3MzExNzU1Mw==	lkhIbGxvLCB3b3JsZC4gSGVsbG8sIHdvcmxkLiBIZWxsbywg29ybGQulg==	OTg3LTY1LTQzMjM=
MjA1MTA0MTk3MA==	Znlp	OTg3LTY1LTQzMjQ=
NTlyNjxkMDg2		OTg3LTY1LTQzMjU=

Transformation - decode:

The following transformation can be used to decode all of the columns:

Transformation Name	Edit column with formula
Parameter: Columns	All
Parameter: Formula	base64decode(\$col)

Results - decode:

IntegerField	StringField	ssn
-2082863942	This is a test string.	987654321
2012994989	"Hello, world."	987654322
-1637187918	"Hello, world. Hello, world. Hello, world."	987654323
-1144194035	fyi	987654324
-971872543		987654325
353977583	This is a test string.	987-65-4321
-366583667	"Hello, world."	987-65-4322
-573117553	"Hello, world. Hello, world. Hello, world."	987-65-4323
2051041970	fyi	987-65-4324
522691086		987-65-4325