EXAMPLE - Base64 Encoding Functions

This example demonstrates how to convert an input string to a base64-encoded value and back to ASCII text strings.

Functions:

Item	Description
BASE64ENCODE Function	Converts an input value to base64 encoding with optional padding with an equals sign (=). Input can be of any type. Output type is String.
BASE64DECODE Function	Converts an input base64 value to text. Output type is String.

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	`base64encode($col, true)`

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
LTIwODI4NjM5NDI=	VGhpcyBpcyBhIHRlc3Qgc3RyaW5nLg==	OTg3NjU0MzIx
MjAxMjk5NDk4OQ==	IkhlbGxvLCB3b3JsZC4i	OTg3NjU0MzIy
LTE2MzcxODc5MTg=	IkhlbGxvLCB3b3JsZC4gSGVsbG8sIHdvcmxkLiBIZWxsbywgd29ybGQuIg==	OTg3NjU0MzIz
LTExNDQxOTQwMzU=	Znlp	OTg3NjU0MzI0

LTk3MTg3MjU0Mw==		OTg3NjU0MzI1
MzUzOTc3NTgz	VGhpcyBpcyBhIHRlc3Qgc3RyaW5nLg==	OTg3LTY1LTQzMjE=
LTM2NjU4MzY2Nw==	IkhlbGxvLCB3b3JsZC4i	OTg3LTY1LTQzMjI=
LTU3MzExNzU1Mw==	IkhlbGxvLCB3b3JsZC4gSGVsbG8sIHdvcmxkLiBIZWxsbywgd29ybGQuIg==	OTg3LTY1LTQzMjM=
MjA1MTA0MTk3MA==	Znlp	OTg3LTY1LTQzMjQ=
NTIyNjkxMDg2		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