EXAMPLE - DATE and TIME Functions

This example illustrates how the `DATE` and `TIME` functions operate. Both functions require that their outputs be formatted properly using the `DATEFORMAT` function.

- `DATE` - Generates valid Datetime values from three integer inputs: year, month, and day. See *DATE Function*.
- `TIME` - Generates valid Datetime values from three integer inputs: hour, minute, and second. See *TIME Function*.
- `DATETIME` - Generates valid Datetime values from six integer inputs: year, month, day, hour, minute, and second. See *DATETIME Function*.
- `DATEFORMAT` - Formats valid Datetime values according to the provided formatting string. See *DATEFORMAT Function*.

Source:

year	month	day	hour	minute	second
2016	10	11	2	3	0
2015	11	20	15	22	30
2014	12	25	18	30	45

Transformation:

Transformation Name	`New formula`
Parameter: Formula type	`Single row formula`
Parameter: Formula	`DATEFORMAT(DATE (year, month, day),'yyyy-MM-dd')`
Parameter: New column name	`'fctn_date'`

Transformation Name	`New formula`
Parameter: Formula type	`Single row formula`
Parameter: Formula	`DATEFORMAT(TIME (hour, minute, second),'HH-mm-ss')`
Parameter: New column name	`'fctn_time'`

Transformation Name	`New formula`
Parameter: Formula type	`Single row formula`
Parameter: Formula	`DATEFORMAT(DATETIME (year, month, day, hour, minute, second),'yyyy-MM-dd-HH:mm:ss')`
Parameter: New column name	`'fctn_datetime'`

Results:

NOTE: All inputs must be inferred as Integer type and must be valid values for the specified input. For example, month values must be integers between 1 and 12, inclusive.

year	month	day	hour	minute	second	fctn_date	fctn_time	fctn_datetime
2016	10	11	2	3	0	2016-10-11	02-03-00	2016-10-11-02:03:00
2015	11	20	15	22	30	2015-11-20	15-22-30	2015-11-20-15:22:30
2014	12	25	18	30	45	2014-12-25	18-30-45	2014-12-25-18:30:45

You can apply other date and time functions to the generated columns. For an example, see *YEAR Function*.