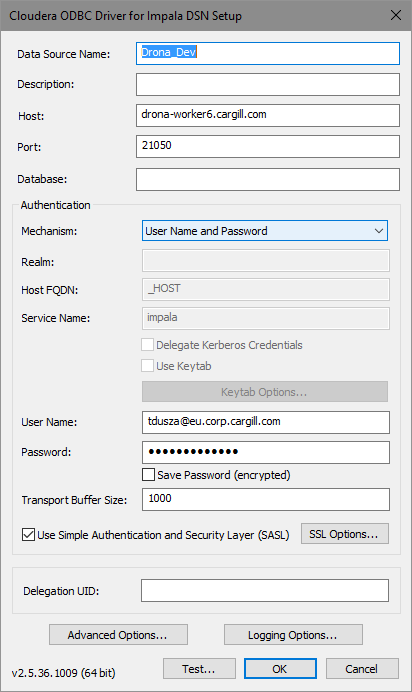
Drona\_Dev

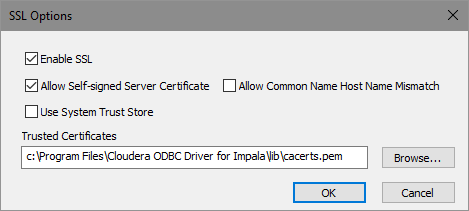
drona-worker6.cargill.com

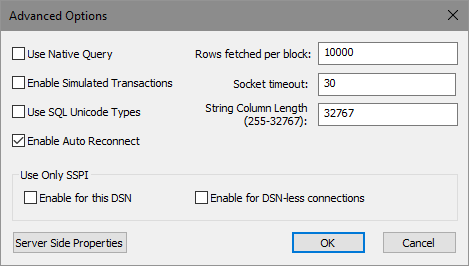
21050

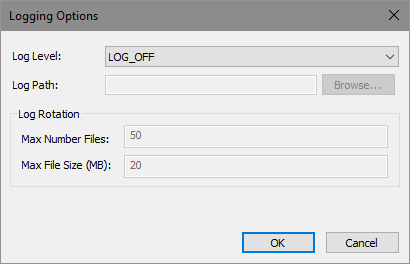
[tdusza@eu.corp.cargill.com](mailto:tdusza@eu.corp.cargill.com)



c:\Program Files\Cloudera ODBC Driver for Impala\lib\cacerts.pem





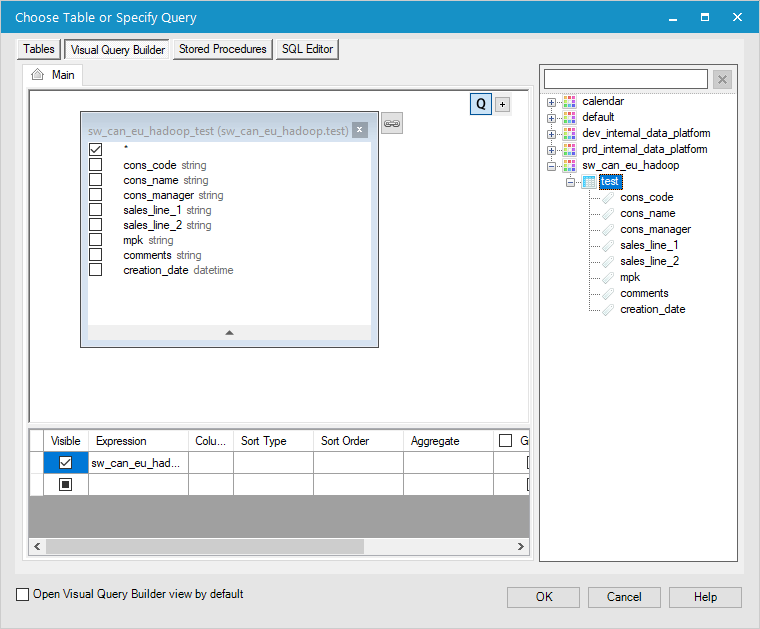


**DSNless Connection string:**

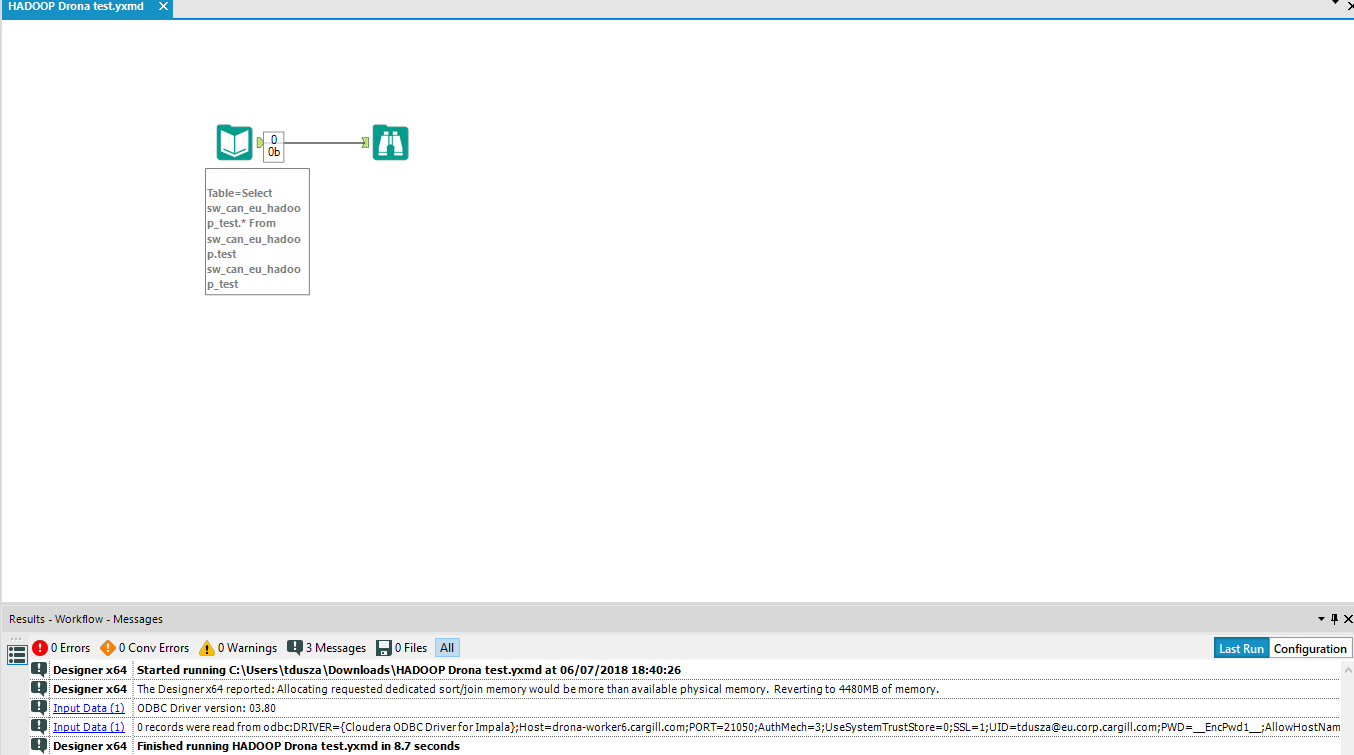
odbc:DRIVER={Cloudera ODBC Driver for Impala};Host=drona-worker6.cargill.com;PORT=21050;AuthMech=3;UseSystemTrustStore=0;SSL=1;UID=tdusza@eu.corp.cargill.com;PWD=\_\_EncPwd1\_\_;AllowHostNameCNMismatch=1;AllowSelfSignedServerCert=1;DelegateKrbCreds=0;KrbFQDN=\_HOST;KrbServiceName=impala;TrustedCerts=c:\Program Files\Cloudera ODBC Driver for Impala\lib\cacerts.pem;

\_\_EncPwd1\_\_ - replace with your password

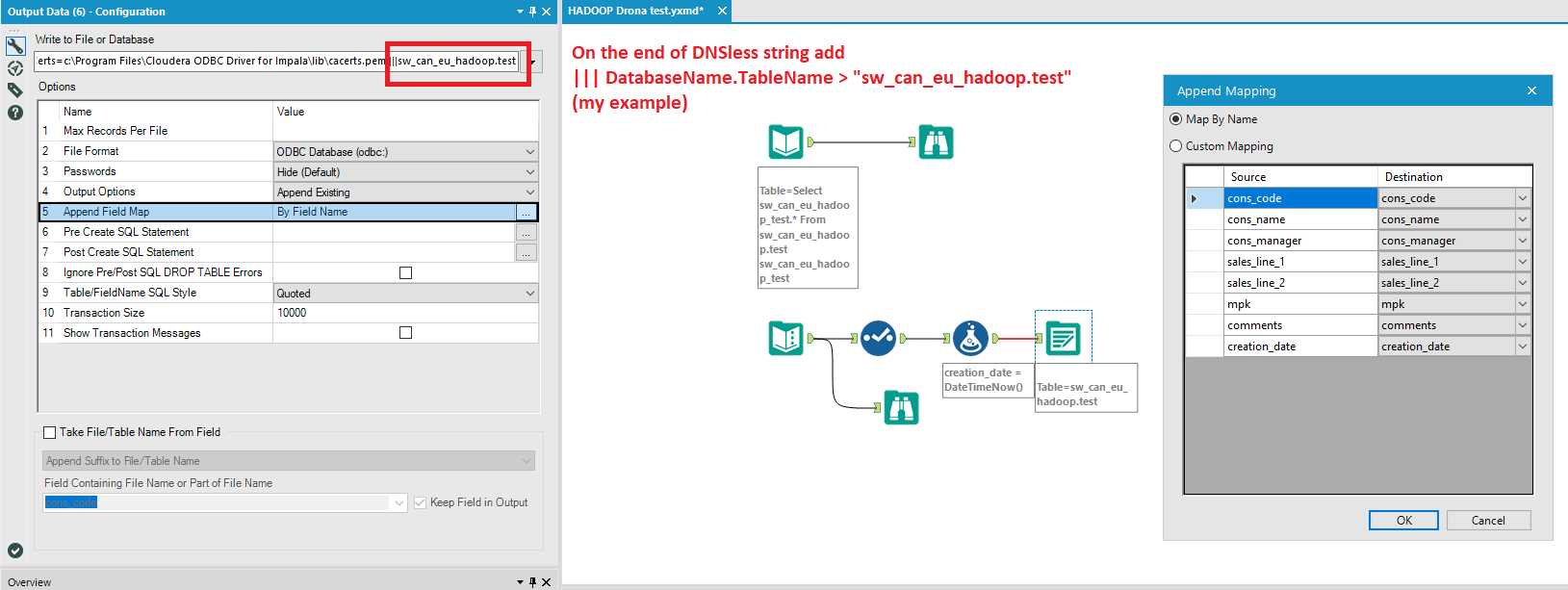
**Input Tool:**



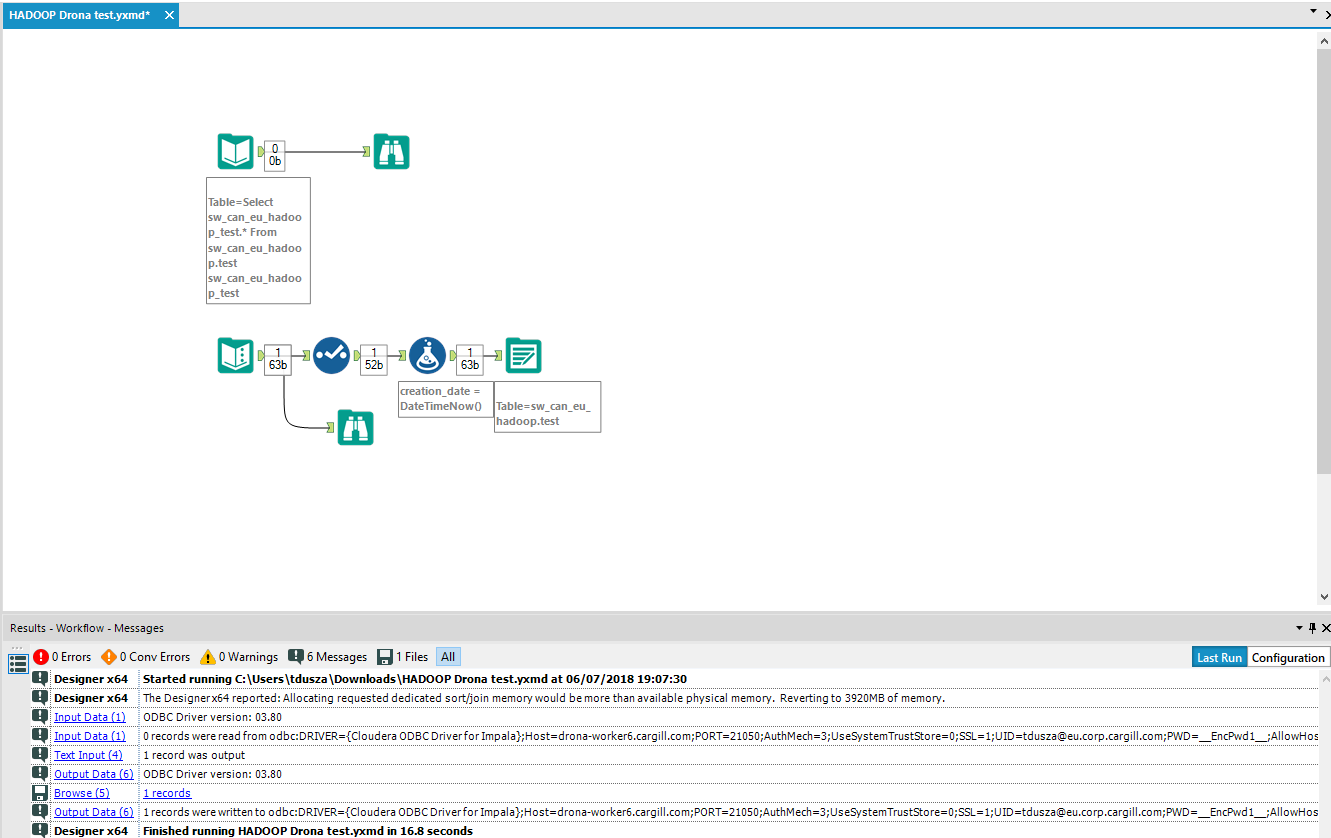
Results:



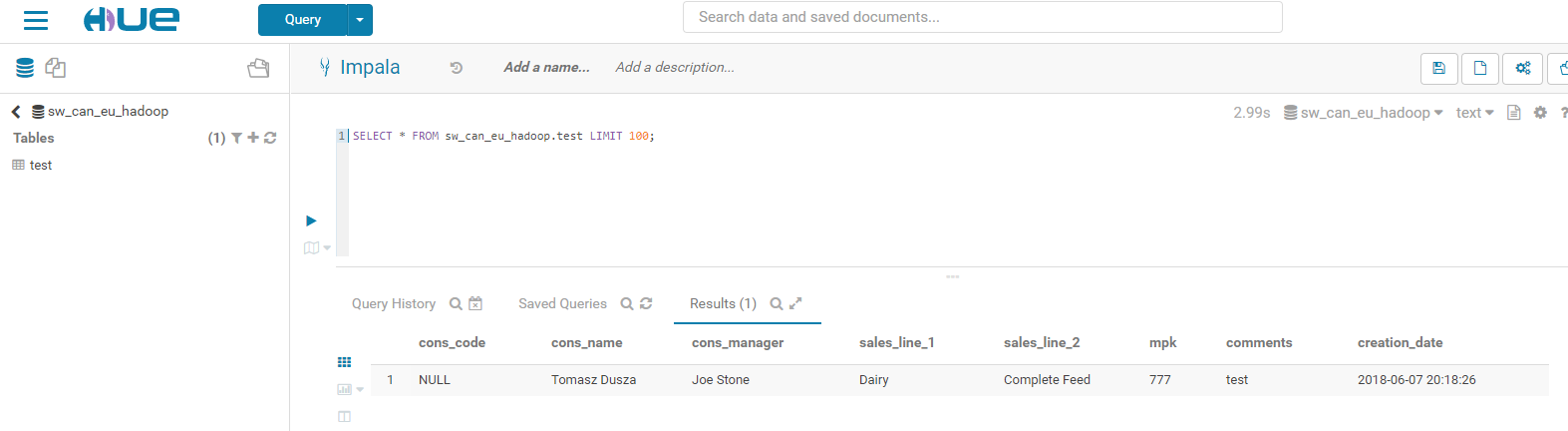
**Output Tool:**



Running:



Results in Hue:



Important notes:

<https://help.alteryx.com/current/DataSources/Impala.htm>

# Cloudera Impala

|  |  |
| --- | --- |
| **Type of Support:** | Read & Write; In-Database |
| **Validated On:** | Impala 2.6.0; Simba Impala Driver 1.2.11.1016 |
| **Connection Type:** | ODBC (32- and 64-bit) |
| **Driver Details:** | The ODBC driver can be downloaded [here](http://pages.alteryx.com/Alteryx-Driver-Downloads-LP.html). Certified with CDH 5.8.  *In-Database processing requires 64-bit database drivers.* |

## Alteryx tools used to connect

* [Input Data Tool](https://help.alteryx.com/current/DbFileInput.htm) and [Output Data Tool](https://help.alteryx.com/current/DbFileOutput.htm) (Standard workflow processing)
* [Connect In-DB Tool](https://help.alteryx.com/current/LockInInput.htm) and [Data Stream In Tool](https://help.alteryx.com/current/LockInStreamIn.htm) (In-database workflow processing)

## Additional Details

If you are using Windows Kerberos authentication (via SSPI), you must select the "Use Only SSPI - Enable for this DSN" option within the Simba Impala ODBC driver Advanced Options.

If you have issues with reading or writing Unicode® characters, access the Simba Impala ODBC driver. Under Advanced Options, select the “Use SQL Unicode Types” option.

### Write Support

The Impala ODBC driver supports both the Impala write capability and HDFS connection options via one of the following two methods:

* For a standard workflow use the [Output Data Tool](https://help.alteryx.com/current/DbFileOutput.htm). Select the Hadoop connection option, and then select HDFS Avro or HDFS CSV for the File Format.
* For an In-Database workflow use the [Connect In-DB Tool](https://help.alteryx.com/current/LockInInput.htm) or the [Data Stream In Tool](https://help.alteryx.com/current/LockInStreamIn.htm). Establish a Read connection. On the Write tab select HDFS Avro or HDFS (CSV) for the Driver.

### Limitations

[[Open](javascript:void(0);)Field Names](javascript:void(0);)

* To write a table with field names that total more than 4000 characters, use CSV instead of Avro.
* When creating field names and writing queries in Impala, note that identifiers (names of databases, tables or columns) in Impala have certain restrictions. While reserved keywords are supported, other identifiers are not supported. For example:
  + Identifiers cannot have a space.
  + Identifiers cannot begin with a number (e.g., 1st is invalid)
  + Identifiers can only be alphanumeric (e.g., no percent sign (tax%), dollar sign (money$), symbols (>, < etc) or any other non-ASCII characters.
  + Identifiers are case insensitive (e.g., T1 and t1 are the same identifier)

[[Open](javascript:void(0);)Character Support](javascript:void(0);)

* Quoted fields in table styles are not supported.
* Unicode® characters are not supported.

[[Open](javascript:void(0);)SQL Support](javascript:void(0);)

Delete and Append statements are not supported.

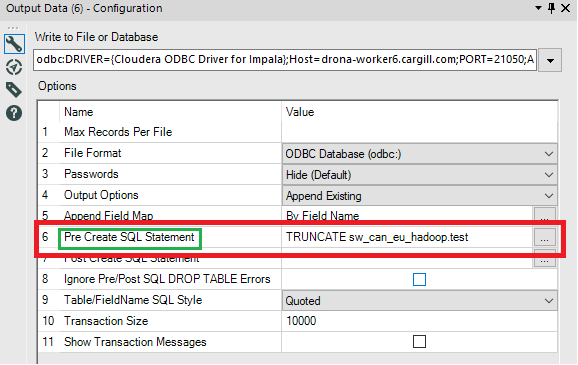
[[Open](javascript:void(0);)Strings and Integer Support](javascript:void(0);)

* Strings are limited to 32,767 bytes.
* The TINYINT data type range is -128 to 127 and therefore needs to be mapped to INT16.

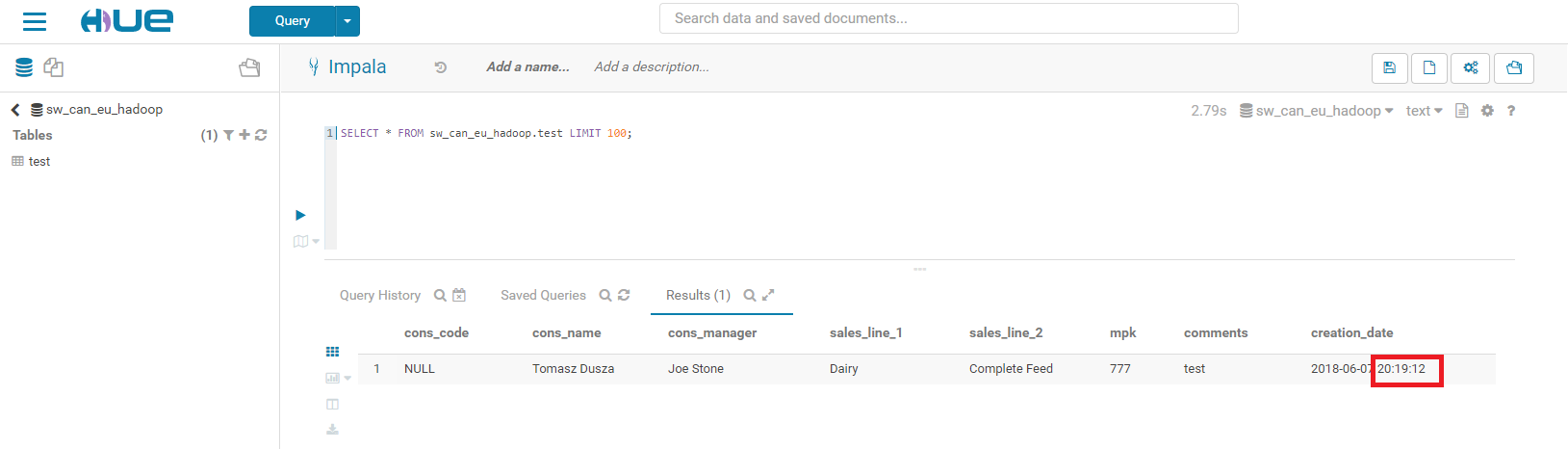
[[Open](javascript:void(0);)In-Database](javascript:void(0);)

* Due to an Impala database limitation, you cannot select a table with the [Connect In-DB Tool](https://help.alteryx.com/current/LockInInput.htm) and then write to HDFS Avro with either the **Overwrite Table (Drop)** or **Create New Table** Creation Mode in the [Write Data In-DB Tool](https://help.alteryx.com/current/LockInOutput.htm).

Since you **cannot Delete rows or Drop table** – the only solution between appending the new data is to **Truncate the table** (it willerase all rows but will not remove the table).



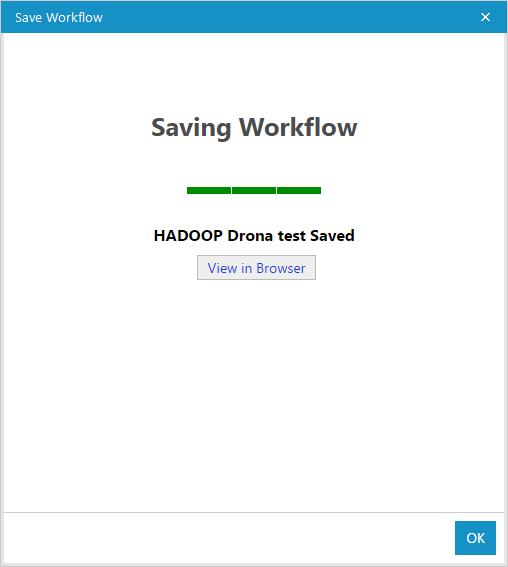
Results:



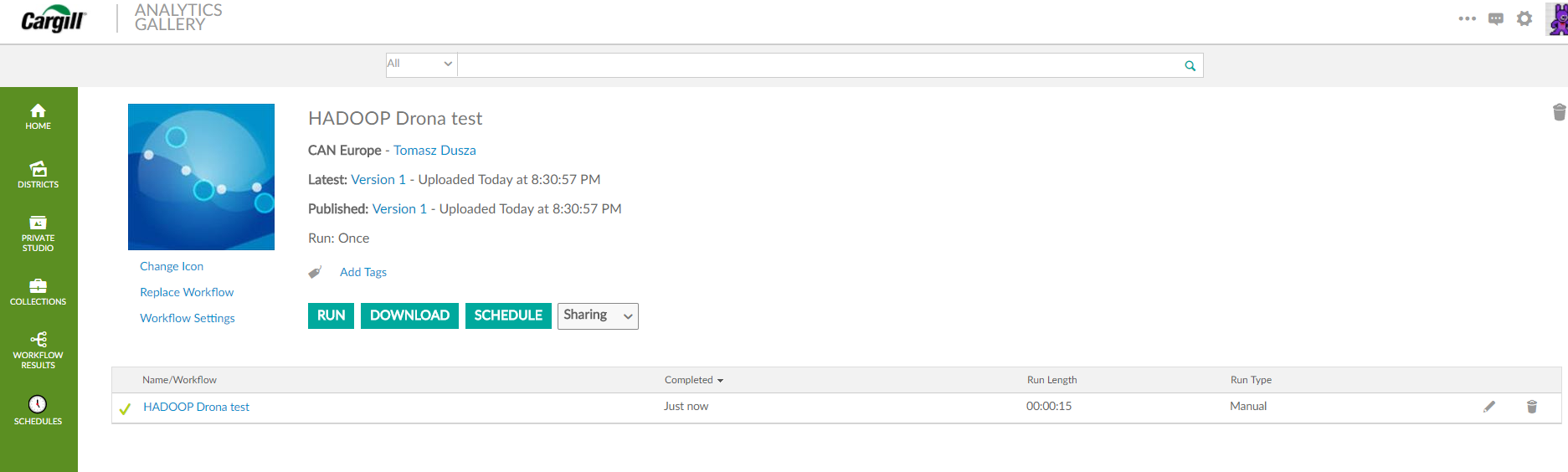
Before:



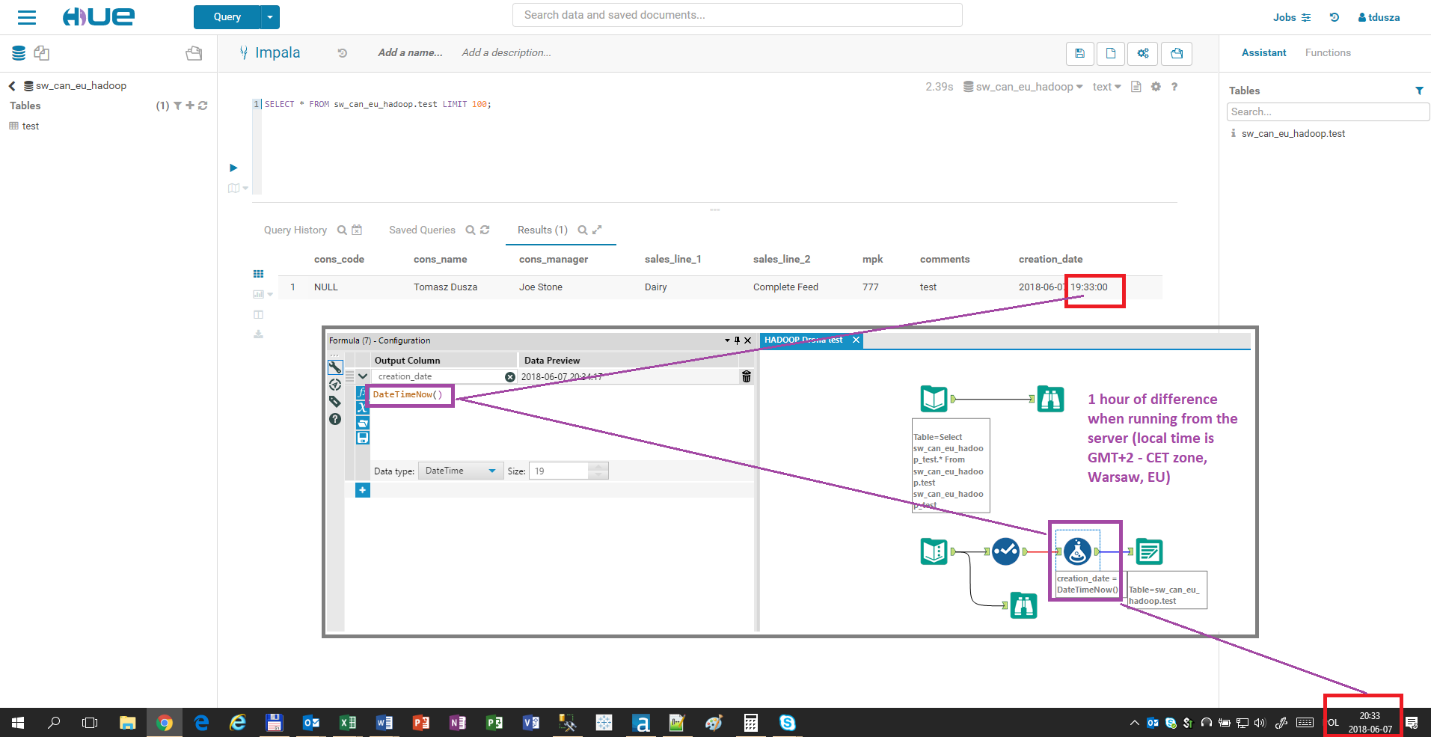
Publishing on the Alteryx server:



Running from the Alteryx server:



DateTimeNow Alteryx function – important note:



For consideration: to implement time neutral function:

<https://help.alteryx.com/9.5/Reference/DateTimeFunctions.htm>

### Conversion Functions

The following functions will convert a DateTime field to either UTC (Coordinated Universal Time) or Local Time. Many web API's allow for date-based queries, and they frequently need the time to be in UTC. To learn more about UTC, see [wikipedia.org/wiki/Coordinated\_Universal\_Time](http://en.wikipedia.org/wiki/Coordinated_Universal_Time).

* **DateTimeToLocal():** Converts a UTC DateTime field to the local system timezone.

***DateTimeToLocal('2014-08-01 20:01:25')****will return the local system timezone (Mountain Time) as****2014-08-01 14:01:25***

* **DateTimeToUTC():** Converts a DateTime in the local system timezone to UTC.

***DateTimeToUTC(DateTimeNow())****will return the Coordinated Universal Time at workflow runtime:****2014-08-01 20:01:25****(where Local Mountain time was 2014-08-01 14:01:25)*