Instructor Notes: DI-1500 v9

There have been a few minor changes to update the course for v9.0.

Please follow the instructions outlined below to ensure you can complete the required labs:

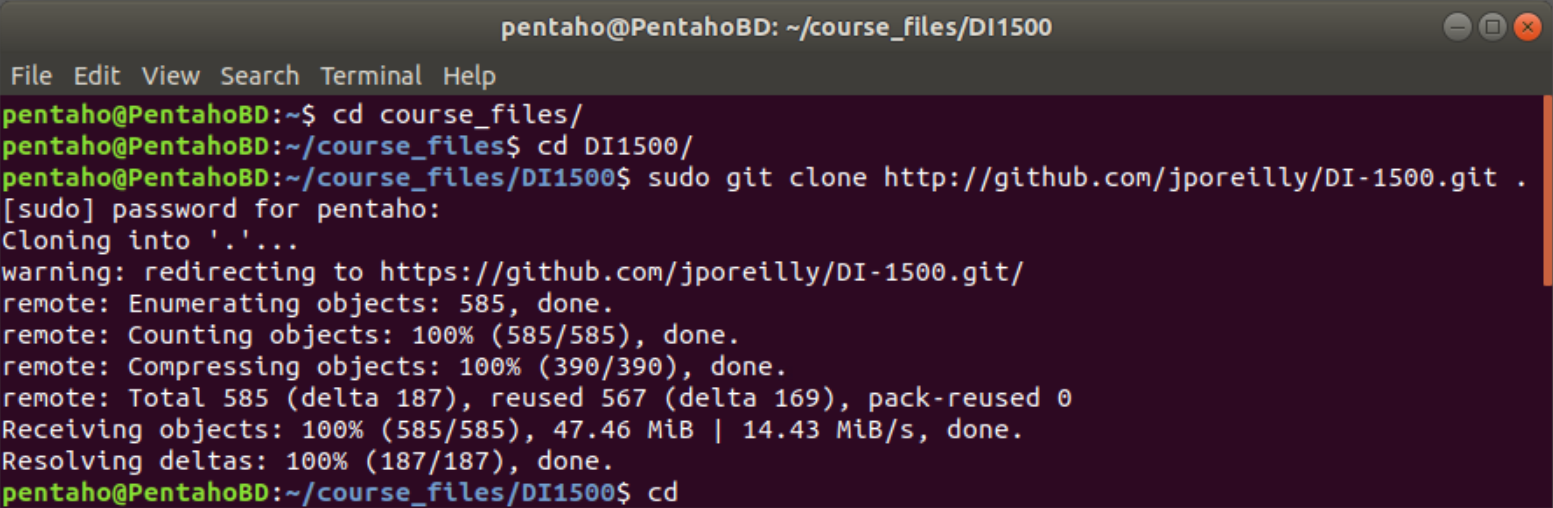
If you need to reset the course files:

1. In a terminal:

$ cd course-files/DI1500

1. Enter the following command:

$ sudo git clone <http://github.com/jporeilly/DI-1500.git> .



NB: Don’t forget the . (period) at the end of the command.

This will clonethe latest course files. The window will automatically close once completed.

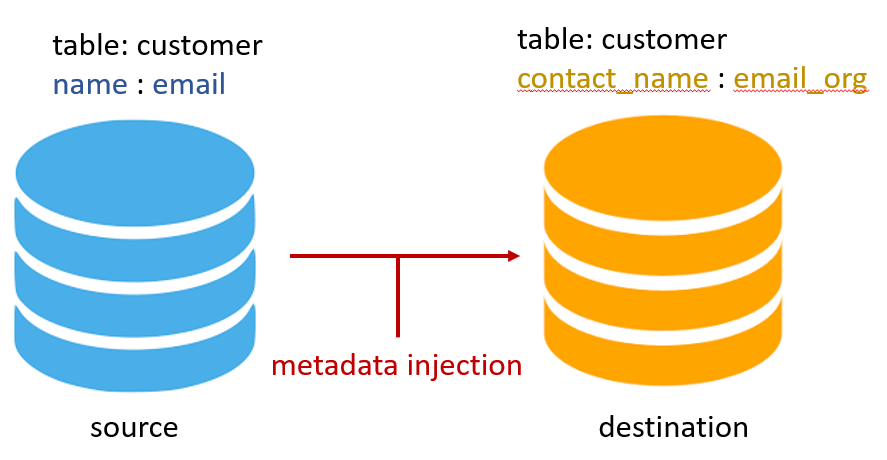
Note: Confluent Kafka has been replaced with Apache Kafka v2.5

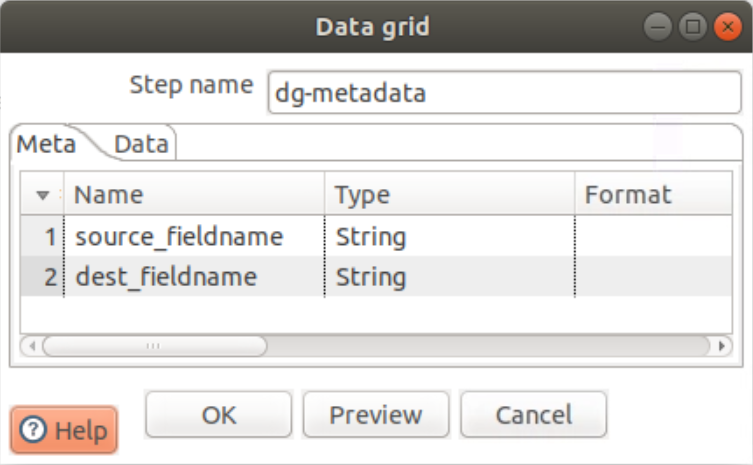
1. Check that the course files have been updated.

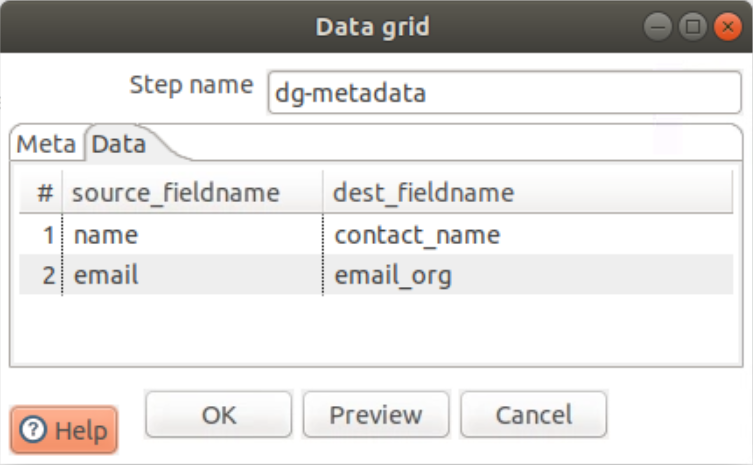
Module 1 – Metadata Injection

The data has been changed, so that you can introduce a database scenario. In moving data from one staging area to another the table properties may need to be changed (column names, varchar, etc..).

In these series of Labs you will be onboarding some data where the column names need to changed to match the destination.







Module 2 – PDI as a Data Source

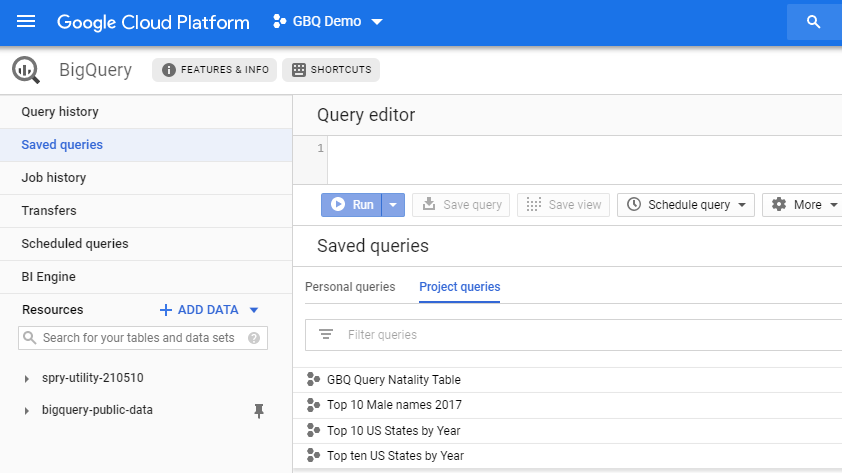
CDA

From October 14th APIXU relaunches as WeatherStack. The tr\_weather\_cda.ktr has been updated to reflect the changes in api.

Google BigQuery

The lab should only be demonstrated by the Pentaho Instructor. A new account has been created which required a new authentication key.

The following file will help execute example queries. If you switch to the new UI you will find the queries saved.



The Transformation has been updated to include the required account authentication email and path to key.

Module 3 – Streaming Data

MQTT – Mosquitto

The Mosquitto Broker service now starts automatically.

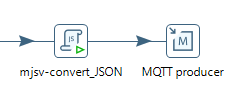
Added: Use Case – Logistics Sensor Data

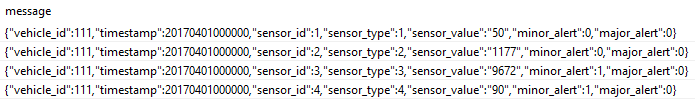
Note: This transformation will only be added if the reset script is RUN. The output can be used as a Pentaho Data Service to populate a C-Tools dashboard.

**Logistics Sensor Data**

tr\_mqtt\_producer.ktr

the sensordata stream is streamed in JSON format



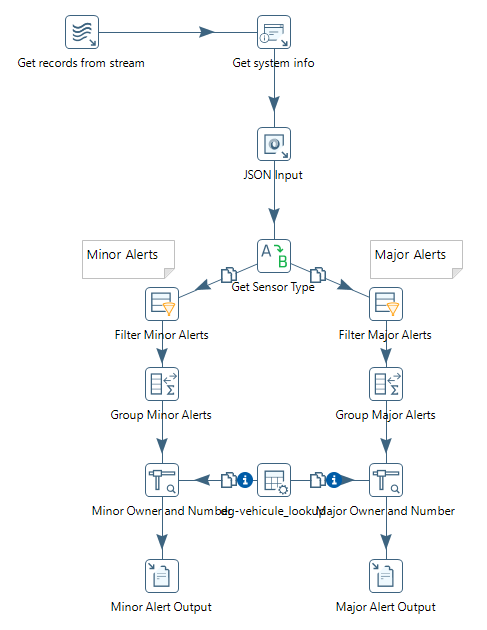


tr\_mqtt\_consumer.ktr

By default the consumer is processing:

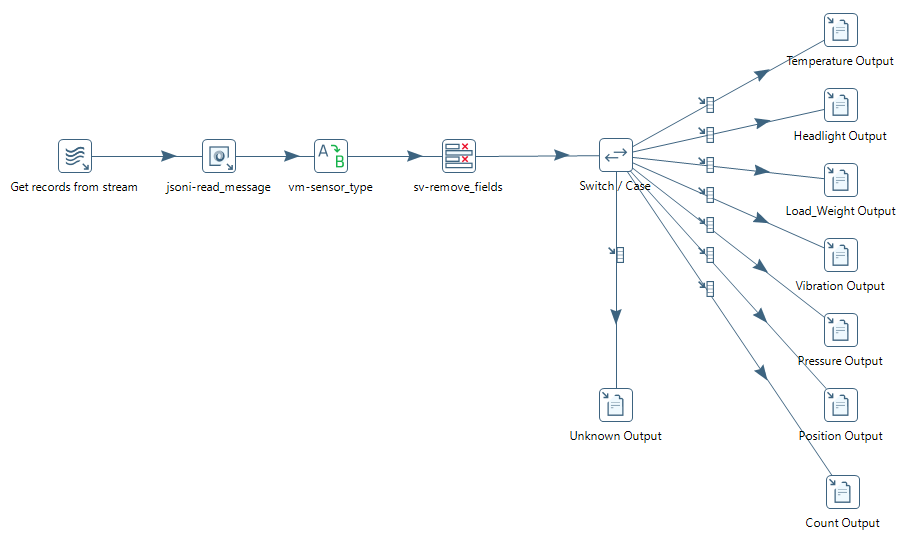


tr\_process\_alert\_data.ktr



tr\_process\_sensor\_data.ktr

Or point the consumer step to..



Module 4 – Scalability

Exercise: ‘Round Robin or Copy’ has been removed from the course files but kept in the pptx.

Exercise: ‘Transactional Transformations’ has been removed from the course files but kept in the pptx.