# Title: ITMD526\_Assignment\_04

First Name	Last Name	CWID
Arpit	Khandekar	A20409171

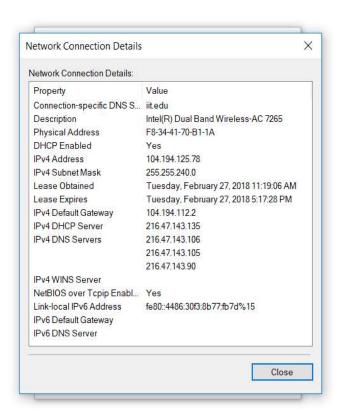
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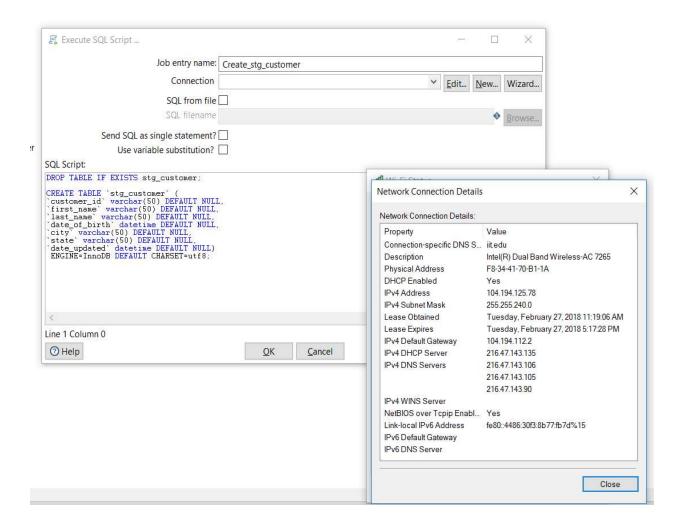
#### 1. Extracting the excel source to stg\_customer table.

- 1. First, we need to take new job which start with **Start** input as an input for the job.
- 2. Then in Pentaho tool I have drag and drop SQL as scripting input named as 'Create stg\_customer'

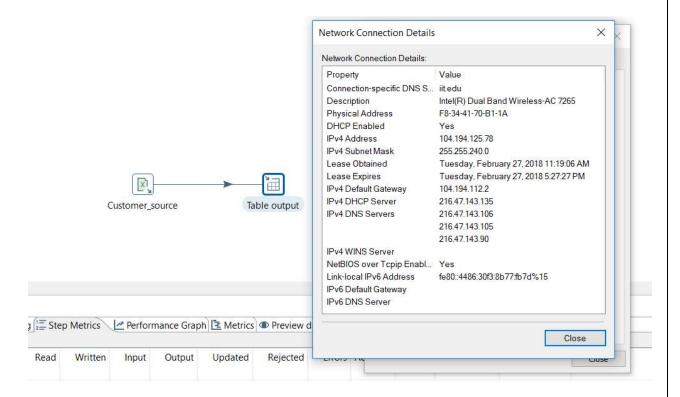




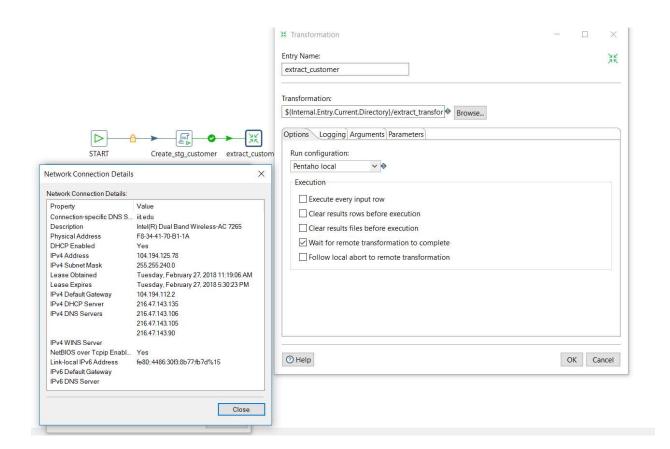
3. We will write **DDL statement** to create stg\_customer in SQL script **'Create\_stg\_customer'**, also we will mention to drop table if it is already existing in database.



4. Now we will take transformation where excel input 'Customer\_source' transformed to Table output.

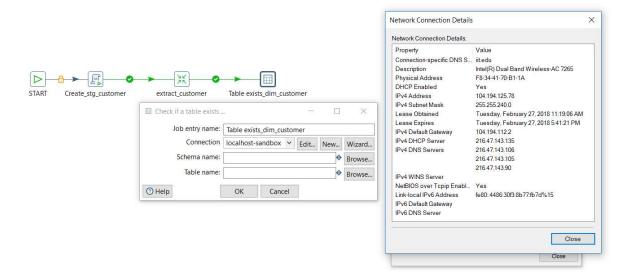


5. We need to **link** this **transformation** to our **main job** which can be done by using **dynamic** path to our job.

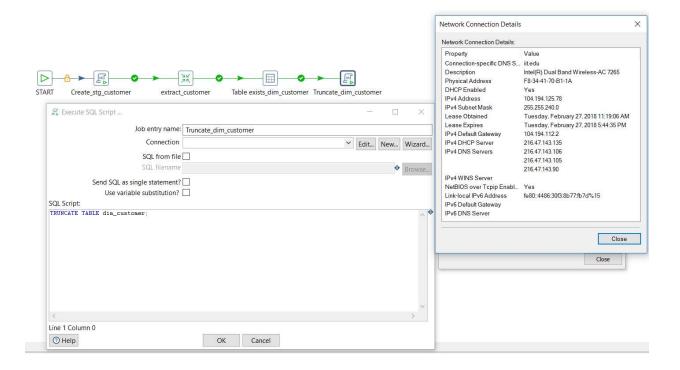


## 2. Read the staging table to build a dimension called dim\_customer

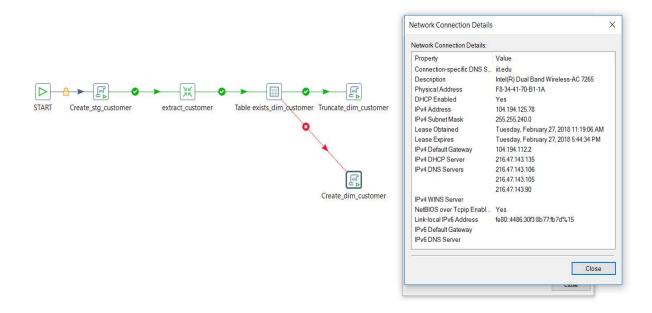
 Now, we will take table exists" Table exists\_dim\_customer" to our job just to check if table "dim\_customer" already exist, if table exist then truncate the table "dim\_customer" entries else create a new table "dim\_customer"



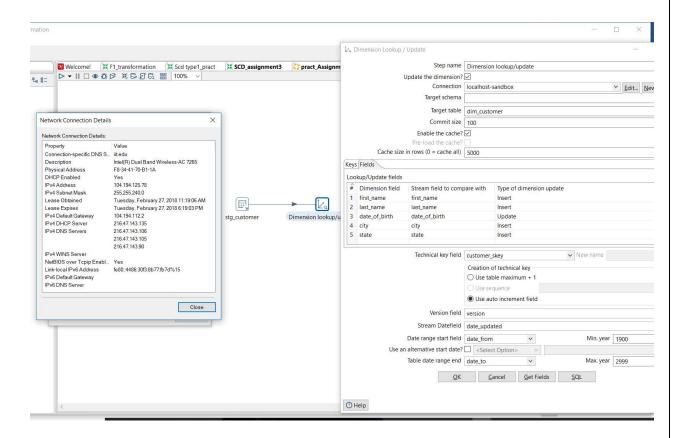
2. If table "dim\_customer" exists then truncate table dim\_customer by taking one sql scripting in pentaho tool.



3. If table does not exists, then **create new** table dim\_customer by taking another SQL scripting in the Pentaho.

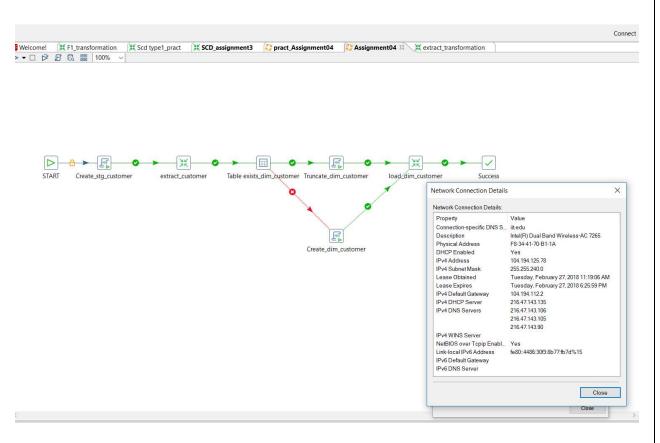


4. Furthermore, we need to load a transformation using table as input "stg\_customer" and Dimension lookup/update as output connecting to same database schema 'localhost-sandbox' Having target table as "dim\_customer".

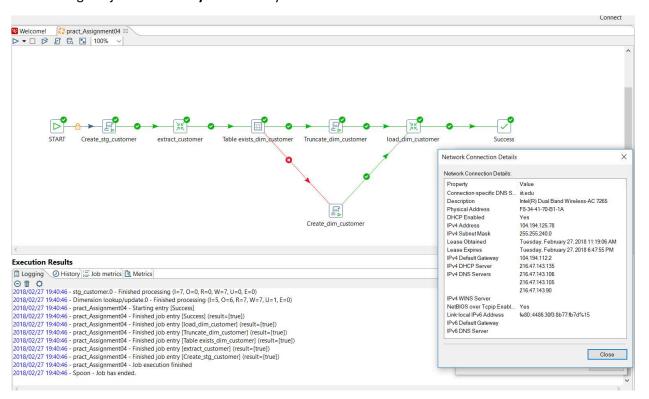


Taking type of dimension as **Update** (**SCD type1**) for date\_of\_birth column, while for other column as **Insert** (**SCD type2**).

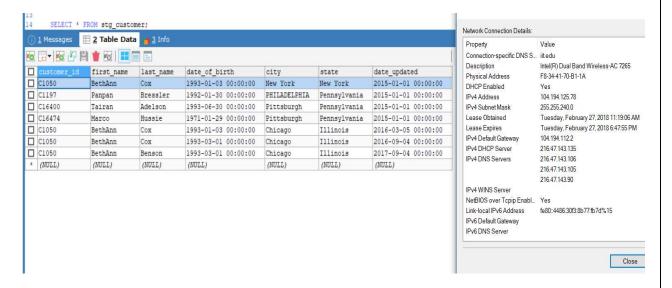
5. Every Job ends with Success, drag and drop to our main output sheet.



6. Running the job successfully without any errors.

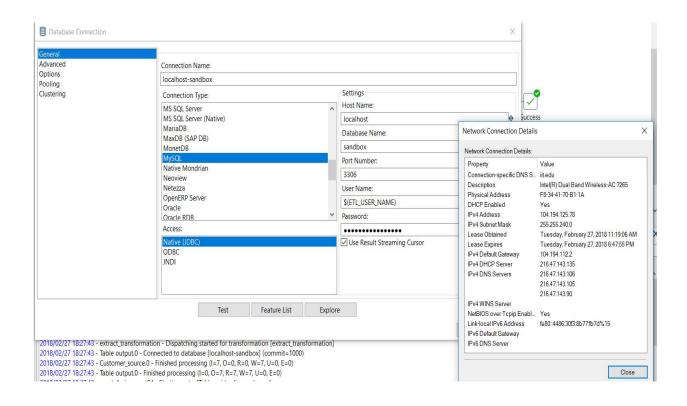


7. Checking the **entry** from the **database**, where we found that records are inserted to **stg\_customer** table.

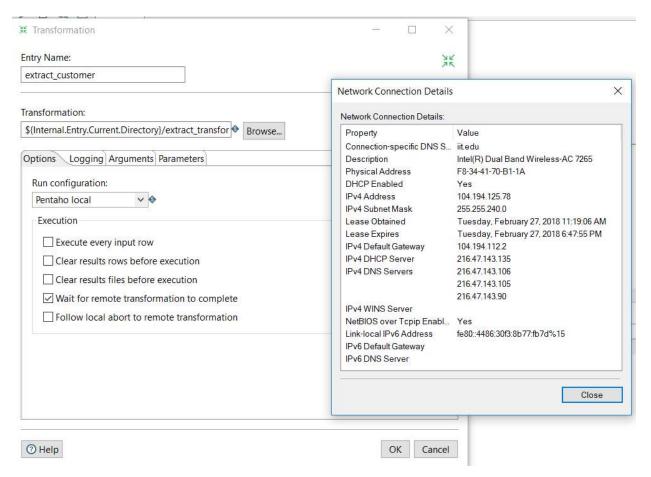


## 3. Jobs has been created which by following guidelines:

- Job has been created by using environment variables as ETL\_USER\_NAME and ETL\_USER\_PASS
  for database connections.
- 2. Database is connected to **sandbox** database having server as **localhost**.



3. Transformations are linked with **Internal.Entry.Current.Directory** to jobs, **instead** of using **absolute** path.



4. Zip file includes main Kettle job "pract\_Assignment04.kjb" and two transformation as extract\_transformation.ktr and Dimension\_Customer\_transformation.ktr