

Data Integration Platform Cloud: Hands On Lab



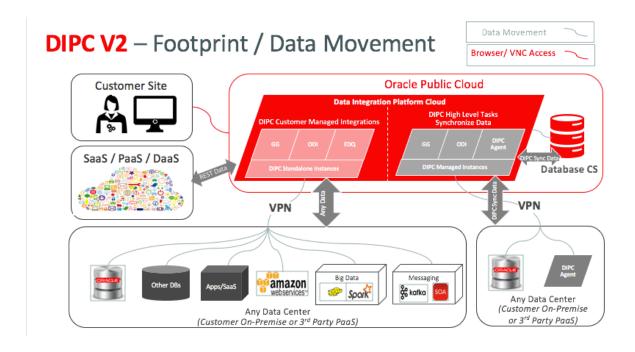
Data Integration Platform Cloud Hands On Lab





Architecture Overview

This Hands-on lab demonstrates the power and simplicity of the Data Integration Platform. For this Hands-on lab data will be sourced from an OLTP system made up of a 3NF schema, data will be extracted and synchronized in real time to an operational reporting schema, this data will then be mini batched to an analytical data warehouse. The goal of this lab to demonstrate how DIPC removes the complexity in creating a real-time operation reporting schema as well as a near real-time analytical data warehouse, enabling even novice users to perform the creation, initial load and real time synchronization of the operational reporting schema in just a couple of clicks. Historically these types of data integration tasks required expert ETL and DBA resources as well as a detailed understanding of the source schema. Built from the ground up on proven technologies, DIPC provides enterprise data integration and data governance features for today's enterprise.

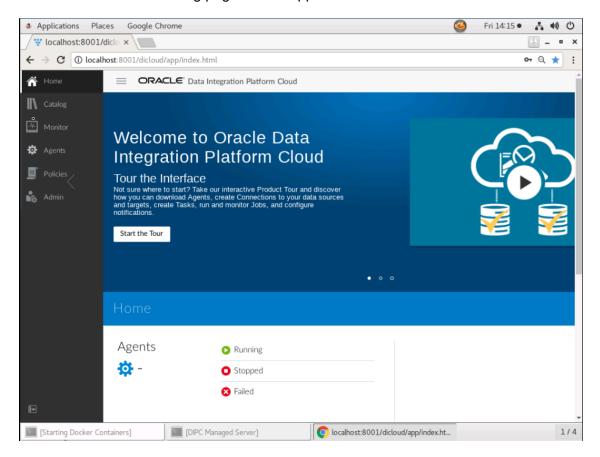




Task 1: Prep External Website Data

- 1. Log into Data Integration Platform Cloud
 - a. From your local laptop/desktop start Chrome (you can also continue to use Chrome on the Ravello instance)
 - b. Go to your <Ravello Instance hostname>:8001/dicloud/login.html
 - c. Login with weblogicwelcome1

The following page should appear -



- 2. Click Home
- 3. Click Home and click on the right arrow in the carousel
- 4. Select Create under Data Preparation
- 5. On the Create Data Preparation Task enter the following information
 - a. Name: PrepWebData
 - b. Description Prep External Website Data
- 6. For Source Configuration click the add new connection button
 - a. Name: LocalFileStore
 - b. Description Local File Store
 - c. Agent leave blank
 - d. Type: File
 - e. Directory: /tmp
- 7. Review Connections settings.
- 8. Click Test Connection Review for Errors.
 - a. Click Save
- 9. Now click on Select... next to File, pick webclicks.txt then click Select

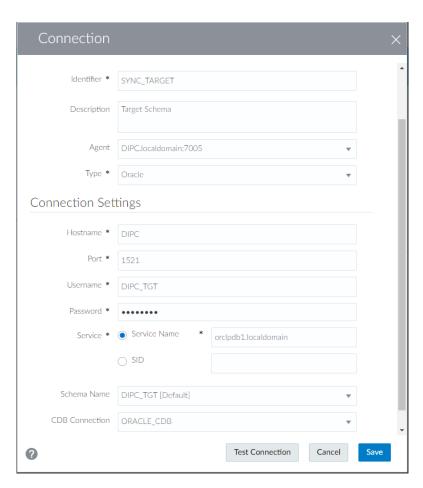




- 10. Next click on Options and uncheck Header > Enable. Click OK
- 11. In Target Configuration, select Sync Target if it already exists or click on Create button to create it.

NOTE: This connection may have already have been setup in a previous HOL.

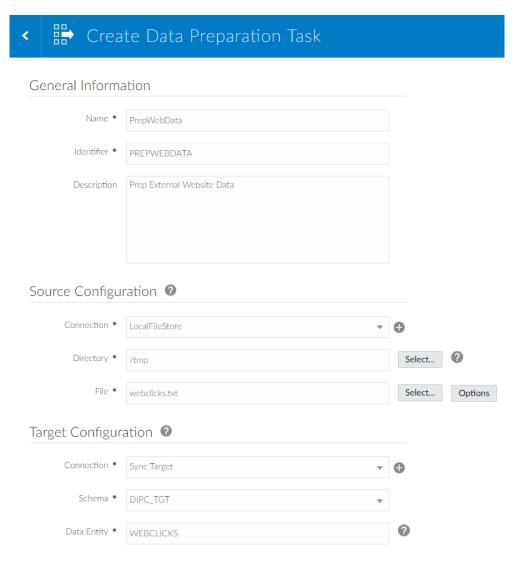
- a. Optional: Enter the following information
 - Name: Sync Target
 - **Description** Target Schema
 - Agent DIPC.localdomain:7005
 - Type Oracle selecting Oracle will expand the Connection Settings
 - Hostname: DIPC
 - Port: 1521
 - Username: DIPC_TGTPassword: welcome1
 - Service Name: orclpdb1.localdomain
 - Schema: DIPC_TGT
 - CDB Connection: ORACLE CDB



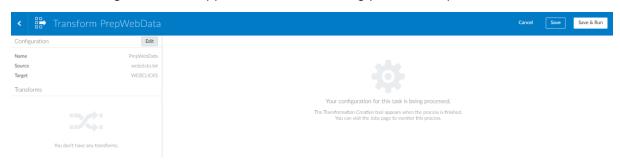
- b. Optional: Click Test Connection, Review for errors
- c. Optional: Click Save
- 12. Enter WEBCLICKS next to Data Entity under Target Configuration
 - a. Connection: DIPC_TGTb. Schema: DIPC_TGTc. Data Entity: webclicks



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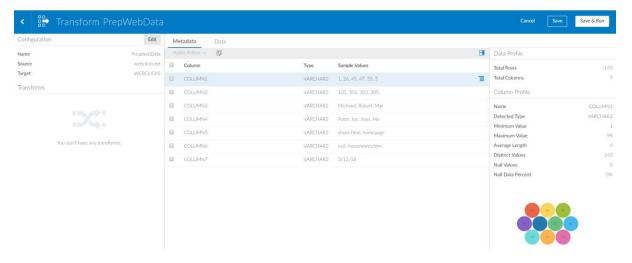
- 13. Click Save and Transform
- 14. The following screen will appear as the file is being parsed and profiled



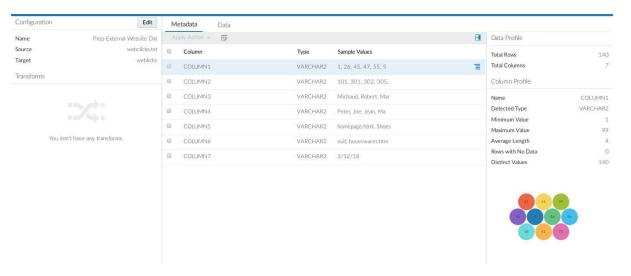
15. Once finished the data preparation screen will appear

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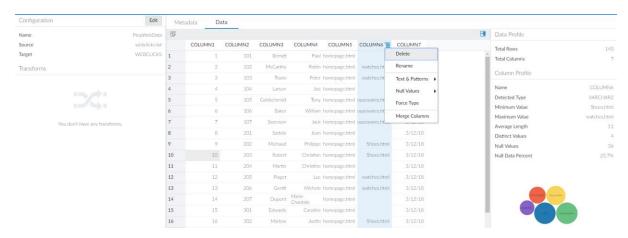
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- 16. Begin prepping/transforming the file
 - a. The profiling process has captured advanced profiling information as the flat file was ingested. Click each column to review the profiling results in the right hand data profile drawer.
 - b. There are also two views in which data can be prepped and transformed. To view the data view click the data tab



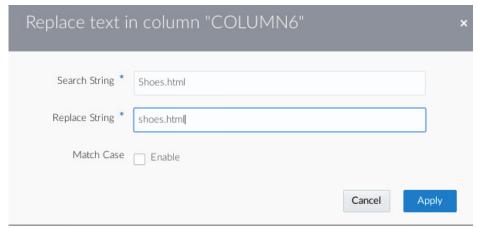
17. To transform data click the menu bar on the column



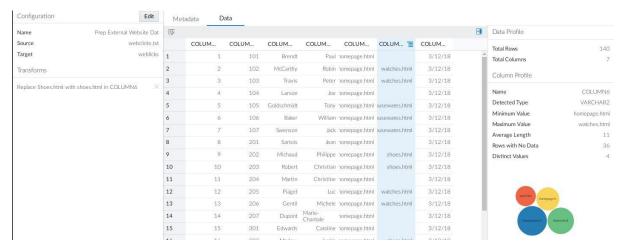
18. For Column 6 transform Shoes.html to shoes.html using the Text & Patterns > Replace transform



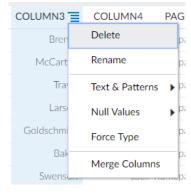
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19. Click Apply. Clicking apply updates, the data, metadata and profiling statistics. Also note the transform is saved and displayed in the left-hand drawer. This transform can be deleted and the data, metadata and profiling statistics will be updated accordingly.

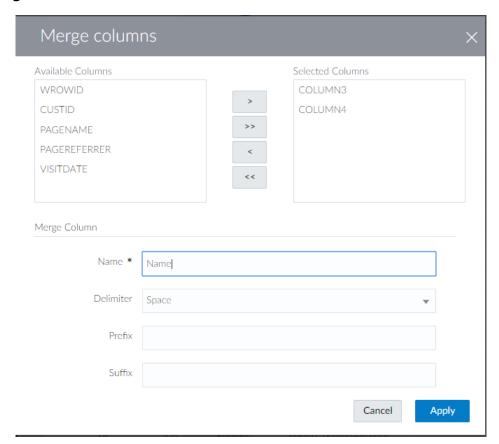


- 20. Add the following column transforms
 - a. Column 1: Rename WROWID
 - b. b. Column 2: Rename CUSTID
 - c. c. Column 5: Rename PAGENAME
 - d. d. Column 6: Rename PAGEREFERRER
 - e. e. Column 7: Rename VISITDATE
 - f. Merge COLUMN3 and COLUMN4 and create a new NAME column

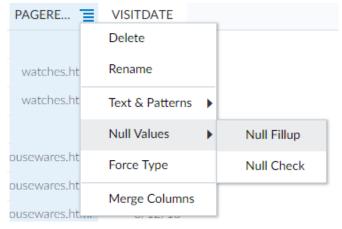


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- g. Delete columns 3 and 4
- h. Column 6: Null Values > Null Fillup

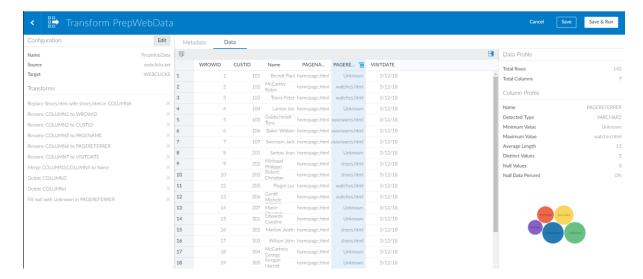




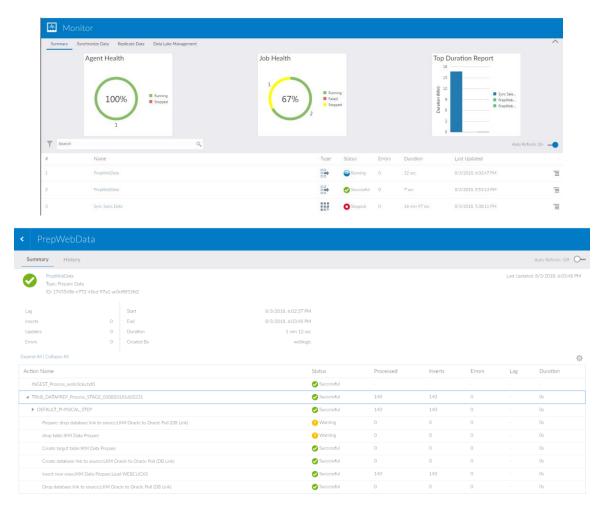
21. Review Transforms and Data

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- 22. Click Save and Run
- 23. Review Job Execution



Summary

You have now successfully completed the Hands on Lab, and have successfully performed an end-to-end data preparation task through Oracle's Data Integration Platform Cloud.