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| Development Spec Document |
| Potential Match Report |
| Rev 1.0  Reltio Technical Services |
| Sanjay Behera |
| 27/03/2019 |

# Revision History

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| **Revision** | **Author Name** | **Date** | **Description** |
| 1.0 | Sanjay Behera | 27/03/2019 | Initial Draft |

# Overview

The Potential match Extract utility helps to extract the Reltio Matched Entities OV data from the specified tenant by creating a simple configuration properties file. It does not require any programming. In this extraction process, only the values that have "ov=true" along with Match URIs of an attribute come to the extract file.

## Use Case(s)

This tool extracts entity level attributes specified in the attribute properties file that are simple, nested and reference attributes along with matched URIs.

# Configuration Requirements

Please refer the QuickStart.md for the Configuration

## <https://bitbucket.org/reltio-ondemand/pot-mat-data-extract/src/master/QuickStart.md>

## Classes and Methods

Below the most relevant classes and methods are outlined

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| **AttributeExtractReportForPotentialMatches** | | |
| **Method** | **Arguments** | **Description** |
| *Main* | String[] **args** | This class is just a shell for the main method |
| *printPerformanceLog()* | long totalTasksExecuted,  long totalTasksExecutionTime,  long programStartTime,  long numberOfThreads | Takes in an a totalTasksExecuted, totalTasksExecutionTime, programStartTime and numberOfThreads prints the OPS for it. |
| waitForTasksReady | Collection<Future<Long>> futures **int** maxNumberInList | Waits for futures (load tasks list put to executor) are partially ready.  maxNumberInList parameters specifies how much tasks could be uncompleted. |

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| **PMExtractTask** | | |
| **Method** | **Arguments** | **Description** |
| *call()* |  | Runnable thread which processed the |
| *getFileToWrite()* | String name | Returns the fileWriter where the extract data need to be written |
| getXrefResponse() | ReltioObject reltioObject  Map<String, InputAttribute> attributes  ExtractProperties extractProperties | This method returns the filelds map as per the attribute mapping. |
| getSelectFields() |  | Construct the Select Fields to be passed to the API |

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| **ExtractProperties**  This class is used to manage the properties for the Utility. And Set the default value to those if required. | | |
| **Method** | **Arguments** | **Description** |
| *ExtractProperties()* |  | Constructor which takes care of the property settings. |

# Deployment & Instructions

## Building

The build path of the **pot-mat-extract** must include the **reltio-cst-core**. The main method of the application is at the following path.

**pot-mat-extract/**[**src**](https://bitbucket.org/reltio-ondemand/util-pin-report/src/master/pin-report/src/)**/**[**main**](https://bitbucket.org/reltio-ondemand/util-pin-report/src/master/pin-report/src/main/)**/**[**java**](https://bitbucket.org/reltio-ondemand/util-pin-report/src/master/pin-report/src/main/java/)**/**[**com**](https://bitbucket.org/reltio-ondemand/util-pin-report/src/master/pin-report/src/main/java/com/)**/**[**reltio**](https://bitbucket.org/reltio-ondemand/util-pin-report/src/master/pin-report/src/main/java/com/reltio/)**/extract/extract/denormalized/service/AttributeExtractReportForPotentialMatches.java**

# Other Relevant Links

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| **Link** | **Description** |
| [Bitbucket link](https://bitbucket.org/reltio-ondemand/pot-mat-data-extract) | Link to the Bitbucket Repository where the source is maintained |