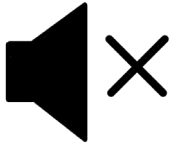


Sep 19, 2023

# Efficient Data Integration with REST API and Postman: Leveraging Parametrized CDI Mapping Templates for Multiple Mapping Tasks

- Narendra Janapati, Associate Consultant, IPS

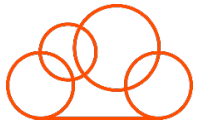
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- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
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- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

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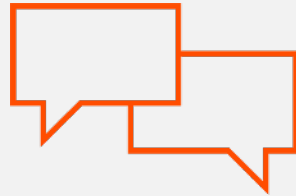
Tailored training and  
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# More Information



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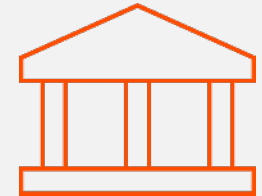
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# Efficient Data Integration Using REST API And Postman

Presenter

*Narendra Janapati, Associate Consultant*

# Agenda

1 Introduction

2 CDI templates overview

3 Demo

4 Parameter file vs Rest API

5 Q&A

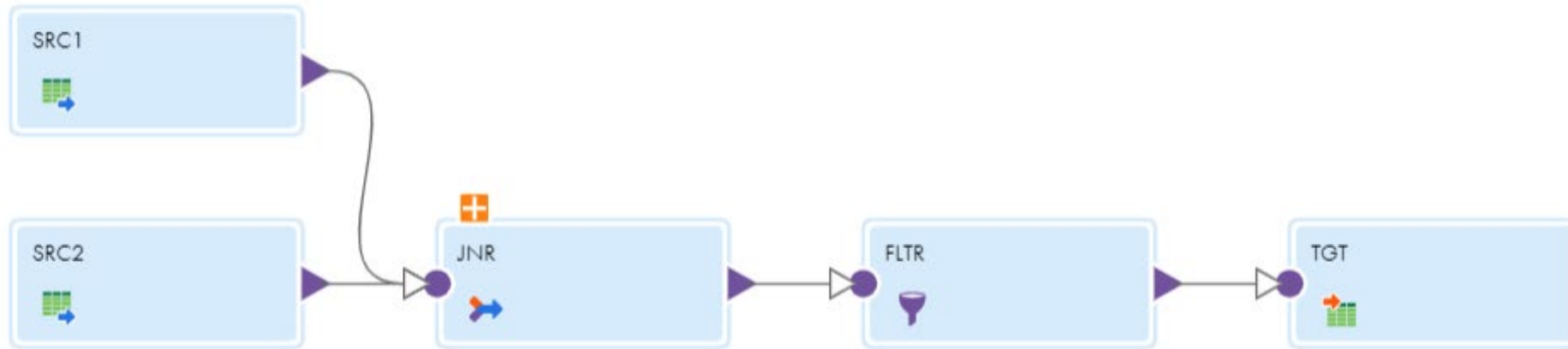
# Introduction

- This webinar is intended for the technical users and CDI/CAI developers. The session discusses data integration with REST APIs, CDI mapping templates, parametrization, mapping tasks, and Postman.
- You will also learn how to seamlessly create mapping tasks using REST APIs. By the end of the webinar, you will have a clear understanding on significant benefits of using REST APIs compared to regular parameter files.



# CDI Template-1

This is a fully parametrized mapping template consisting of two sources, joiner, filter and a target. On top of this we can build multiple mct's by updating the parameters.



# Scenario-1 [MCT1]

## SRC1

CDI.EMPLOYEES	
EMPLOYEE_ID	NUMBER
FIRST_NAME	VARCHAR2 (100 BYTE)
LAST_NAME	VARCHAR2 (100 BYTE)
EMAIL	VARCHAR2 (100 BYTE)
PHONE_NUMBER	VARCHAR2 (100 BYTE)
HIRE_DATE	VARCHAR2 (100 BYTE)
JOB_ID	VARCHAR2 (100 BYTE)
SALARY	NUMBER
COMMISSION_PCT	NUMBER
MANAGER_ID	NUMBER
DEPARTMENT_ID	NUMBER

CDI.DEPARTMENT	
DEPARTMENT_ID	NUMBER
DEPT_NAME	VARCHAR2 (100 BYTE)
LOCATION	VARCHAR2 (100 BYTE)
TRAVEL_REQUIRED	VARCHAR2 (3 BYTE)

## JNR

Src1\_DEPARTMENT\_ID=  
Src2\_DEPARTMENT\_ID

## FLTR

Src2\_TRAVEL\_REQUIRED = 'yes'

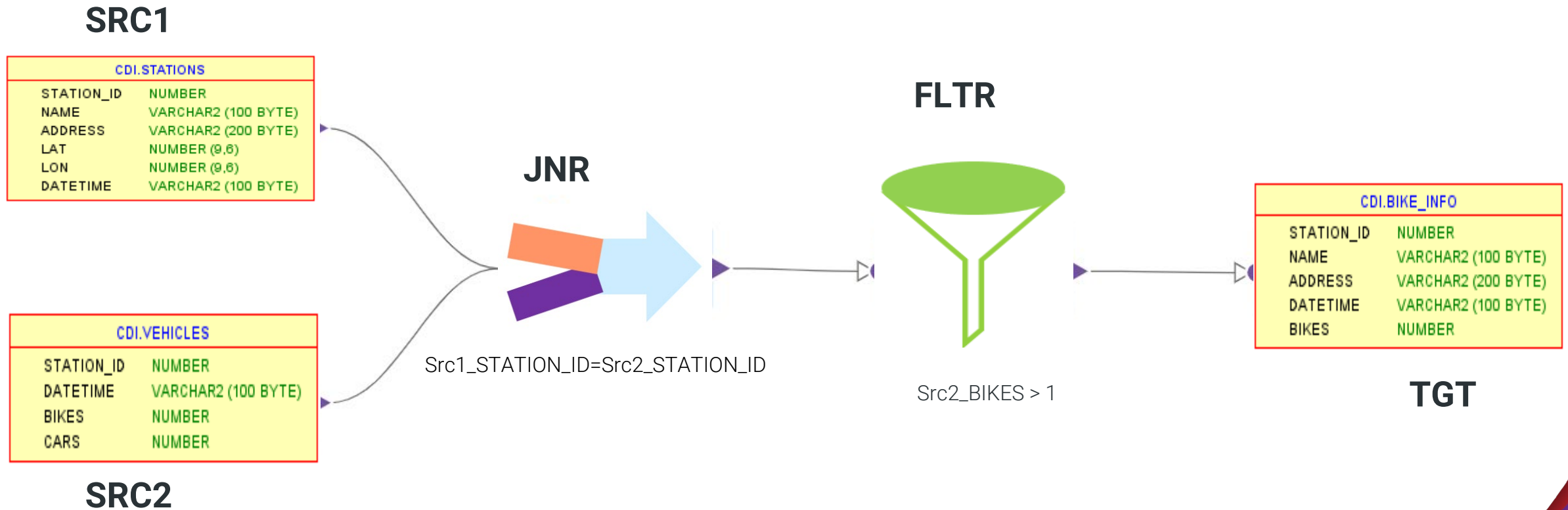
## TGT

CDI.EMP_TRAVEL	
EMPLOYEE_ID	NUMBER
FIRST_NAME	VARCHAR2 (100 BYTE)
LAST_NAME	VARCHAR2 (100 BYTE)
EMAIL	VARCHAR2 (100 BYTE)
PHONE_NUMBER	VARCHAR2 (100 BYTE)
MANAGER_ID	NUMBER
DEPARTMENT_ID	NUMBER
DEPT_NAME	VARCHAR2 (100 BYTE)
LOCATION	VARCHAR2 (100 BYTE)
TRAVEL_REQUIRED	VARCHAR2 (3 BYTE)

## SRC2

This task uses EMPLOYEES,DEPARTMENT tables to load the data into EMP\_TRAVEL table.

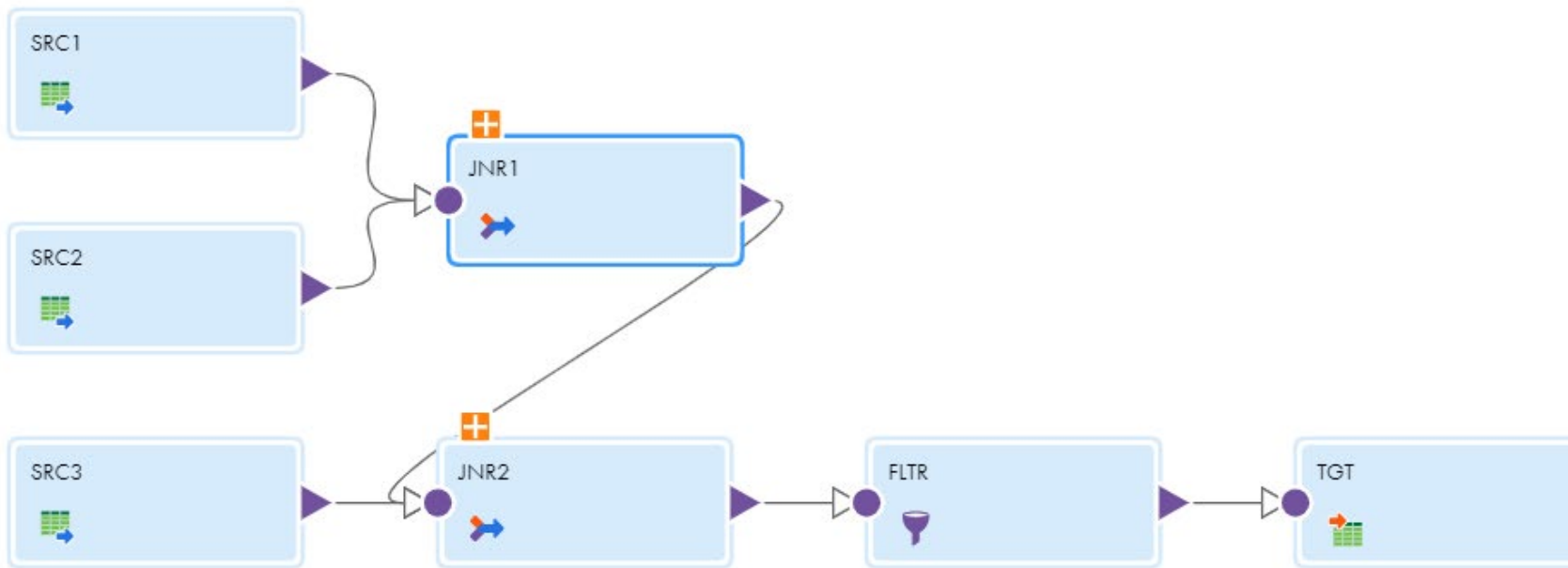
# Scenario-2 [MCT2]



This task uses STATIONS,VEHICLES tables to load the data into BIKE\_INFO table.

# CDI Template-2

This is a fully parametrized mapping template consisting of three sources, two joiners, filter and a target. On top of this we can build multiple mct's by updating the parameters.



# Scenario-1 [MCT1]

## SRC1

CDI.CUSTOMERS	
CUSTOMERNUMBER	NUMBER
CUSTOMERNAME	VARCHAR2 (100 BYTE)
CONTACTLASTNAME	VARCHAR2 (100 BYTE)
CONTACTFIRSTNAME	VARCHAR2 (100 BYTE)
PHONE	VARCHAR2 (100 BYTE)
ADDRESSLINE1	VARCHAR2 (100 BYTE)
ADDRESSLINE2	VARCHAR2 (100 BYTE)
CITY	VARCHAR2 (100 BYTE)
STATE	VARCHAR2 (100 BYTE)
POSTALCODE	VARCHAR2 (100 BYTE)
COUNTRY	VARCHAR2 (100 BYTE)
CREDITLIMIT	NUMBER

CDI.ORDERS	
ORDERNUMBER	NUMBER
ORDERDATE	VARCHAR2 (100 BYTE)
REQUIREDDATE	VARCHAR2 (100 BYTE)
SHIPPEDDATE	VARCHAR2 (100 BYTE)
STATUS	VARCHAR2 (100 BYTE)
COMMENTS	VARCHAR2 (100 BYTE)
CUSTOMERNUMBER	NUMBER
PRODUCTCODE	VARCHAR2 (100 BYTE)

CDI.PRODUCTS	
PRODUCTCODE	VARCHAR2 (100 BYTE)
PRODUCTNAME	VARCHAR2 (100 BYTE)
PRODUCTLINE	VARCHAR2 (100 BYTE)
PRODUCTVENDOR	VARCHAR2 (100 BYTE)
PRODUCTDESCRIPTION	VARCHAR2 (500 BYTE)
QUANTITYINSTOCK	NUMBER
BUYPRICE	NUMBER (15,2)
MSRP	NUMBER (15,2)

Src1\_CUSTOMERNUMBER  
=  
Src2\_CUSTOMERNUMBER

JNR1

JNR2

Src2\_PRODUCTCODE  
=  
Src3\_PRODUCTCODE

FLTR

Src2\_STATUS = 'Shipped'

CDI.SALES_DATA	
CUSTOMERNUMBER	NUMBER
ORDERNUMBER	NUMBER
SHIPPEDDATE	VARCHAR2 (100 BYTE)
STATUS	VARCHAR2 (100 BYTE)
PRODUCTCODE	VARCHAR2 (100 BYTE)
PRODUCTNAME	VARCHAR2 (100 BYTE)
BUYPRICE	NUMBER (15)

## SRC2

## SRC3

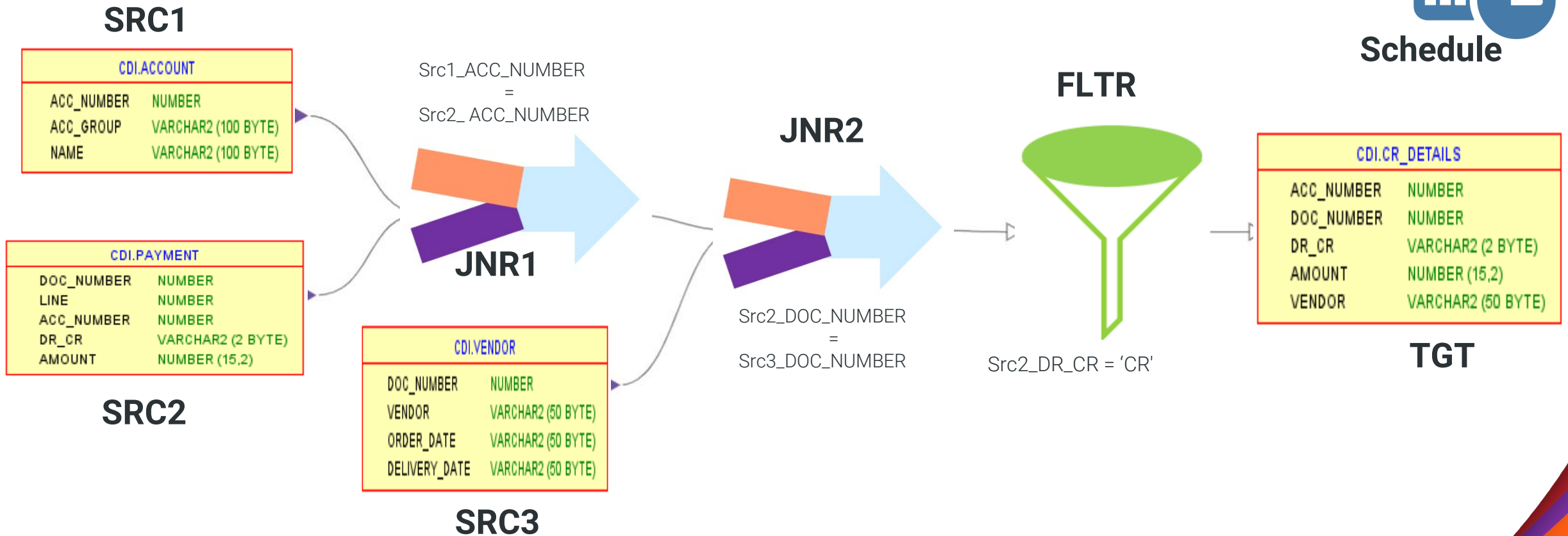
## TGT

This task uses CUSTOMERS,ORDERS,PRODUCTS tables to load data into SALES\_DATA table.

# Scenario-2 [MCT2]



**Schedule**



This task uses ACCOUNT,PAYMENT,VENDOR tables to load data into CR\_DETAILS table.

# Pre-requisites for demo

- IICS license
- IICS Secure Agent must be active & running
- Postman installed
- Relational Database installed [ex: Oracle, MySQL etc.]

DEMO





# Parameter File vs REST API

The below table distinguishes about the update flexibility on the mct's using parameter files and IICS REST API's.

Parameter File	Rest API
<ul style="list-style-type: none"><li>• -source, target connections, object names, filter conditions and expression functions can be updated through parameter file.</li></ul>	<ul style="list-style-type: none"><li>• -source, target connections, object names, filter conditions, joiner conditions, expression functions, field mappings can be updated through REST API's.</li><li>• -Adding to that schedules can be added or modified on mct, fresh mct can be created.</li><li>• -run-time environment, truncate target, creating new expression functions, triggering mct etc.</li></ul>

# Additional Info

- The entire demo showcased just now using REST APIs in postman can be automated using IICS Cloud Application Integration [CAI].
- During our Hackfest, we have built an RPT-utility for repointing mct connection and table names based on the repointing flag.

# Thank You

# Where data & AI come to



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