

Nama : Jefry Lianto  
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KOM : C

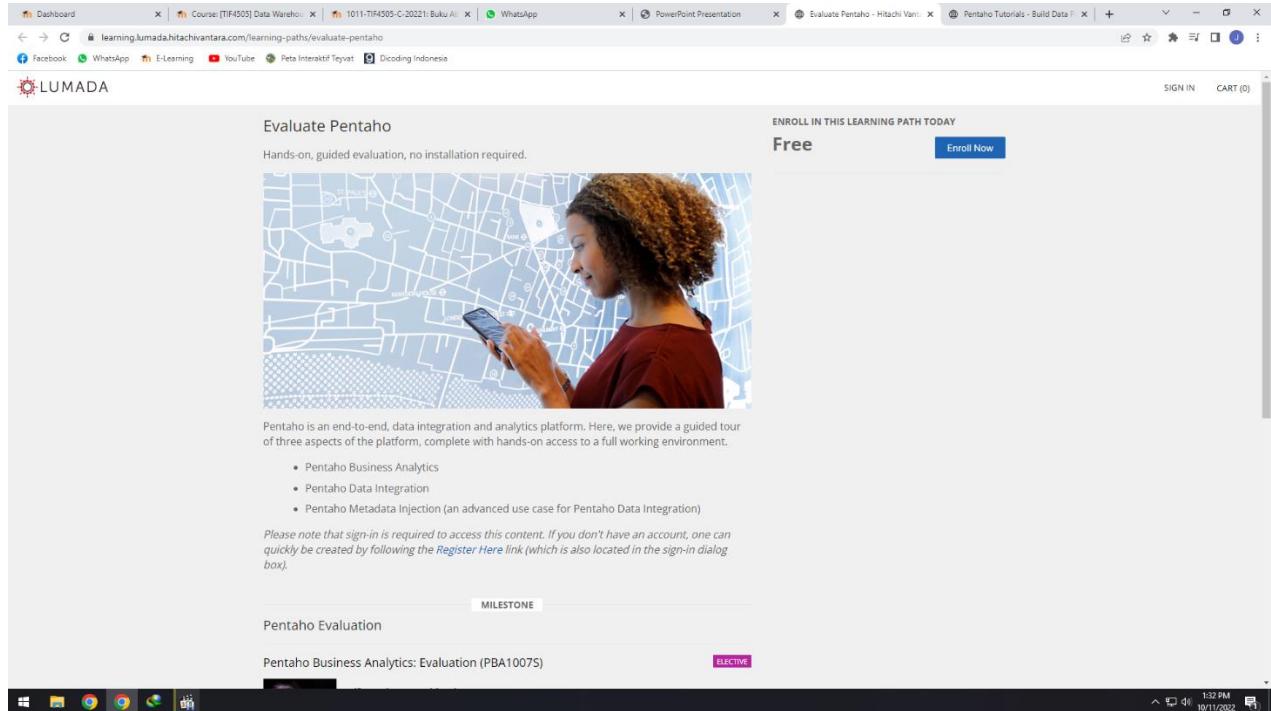
## Tugas DBWI 1

Download pentaho hitachi.

Link : <https://www.hitachivantara.com/en-us/products/lumada-dataops/data-integration-analytics/download-pentaho.html>

The screenshot shows a web browser window with multiple tabs open. The main content area displays the Hitachi Lumada Data Integration and Analytics website. The page features a large banner with the text "Turn Data into Actionable Insights." and two calls to action: "Try Hands On Experience" and "Start a Free 30 Day Trial". To the right of the banner is a photograph of two workers standing on top of a wind turbine. Below the banner, the text "Which Pentaho Experience is right for you?" is displayed, followed by a link to compare key differences. The bottom half of the page contains a form titled "Download Pentaho" with fields for First Name, Last Name, Business Email, Business Telephone, Company Name, Job Title, Address, City, Country/Region, State, and a submission agreement checkbox. There are also "Yes" and "No" radio buttons for a consent question and a "SUBMIT" button. The background of the page features a large image of a wind turbine.

Setelah itu, pada bagian download, klik Try Hands On Experience. Maka akan dialihkan ke halaman berikut. Setelah itu, enroll now.



Evaluate Pentaho

Hands-on, guided evaluation, no installation required.

ENROLL IN THIS LEARNING PATH TODAY

**Free**

PENTaho Business Analytics

PENTaho Data Integration

PENTaho Metadata Injection (an advanced use case for PENTaho Data Integration)

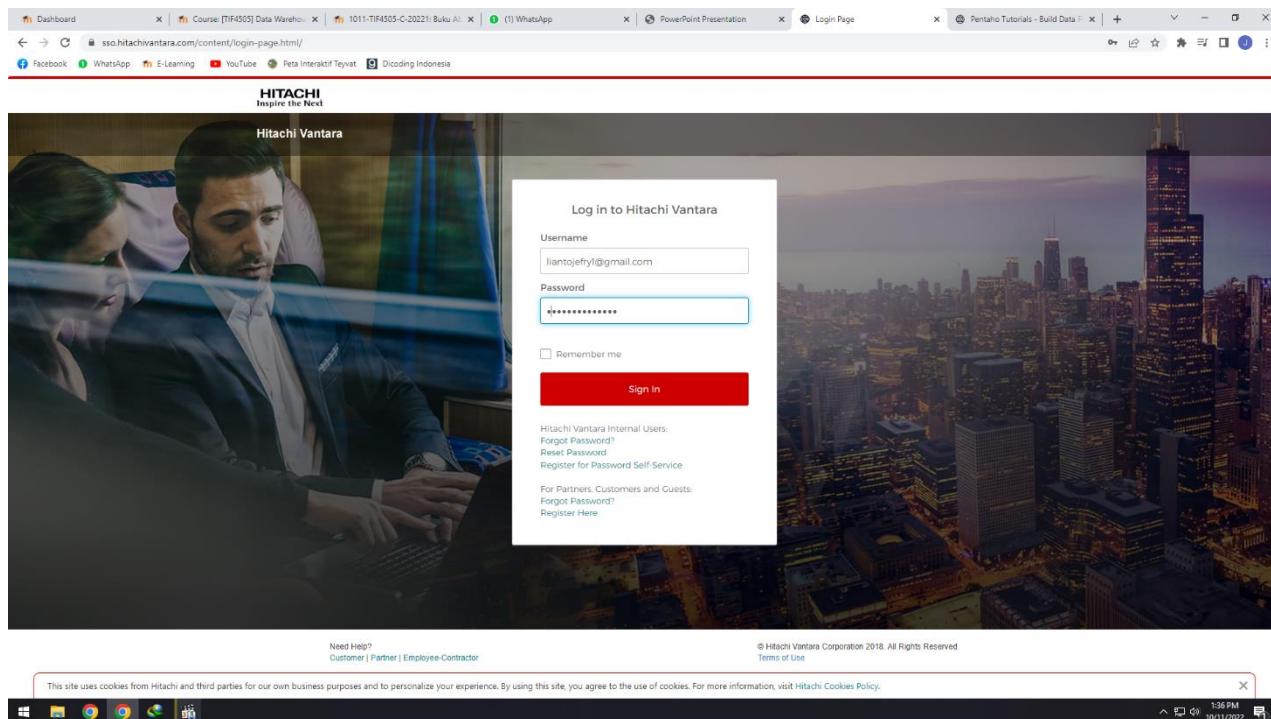
Please note that sign-in is required to access this content. If you don't have an account, one can quickly be created by following the Register Here link (which is also located in the sign-in dialog box).

MILESTONE

Pentaho Evaluation

Pentaho Business Analytics: Evaluation (PBA1007S) ELECTIVE

Login Hitachi untuk enroll class.



HITACHI  
Inspire the Next

Hitachi Vantara

Log in to Hitachi Vantara

Username: liantojeffy@gmail.com

Password: \*

Remember me

**Sign In**

Hitachi Vantara Internal Users:  
[Forgot Password?](#)  
[Reset Password](#)  
[Register for Password Self-Service](#)

For Partners, Customers and Guests:  
[Forgot Password?](#)  
[Register Here](#)

Need Help?  
[Customer](#) | [Partner](#) | [Employee-Contractor](#)

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Setelah enroll, maka akan muncul course untuk melatih penggunaan pentaho hitachi. Kali ini kita akan belajar tentang Pentaho Data Integration.

The screenshot shows a web browser window with three course cards listed under 'PENTHAO EVALUATION'.  
1. **Pentaho Business Analytics: Evaluation (PBA1007S)**  
- ELECTIVE  
- Self-Paced Course with Lab  
- (60 min) Self-paced, interactive online training with virtual lab environment for hands-on practice.  
- [View Details](#)  
2. **Pentaho Data Integration: Evaluation (PDI1028S)**  
- ELECTIVE  
- Self-Paced Course with Lab  
- (60 min) Self-paced, interactive online training with virtual lab environment for hands-on practice.  
- [View Details](#)  
3. **PDI Evaluation: Metadata Injection (PDI1030S)**  
- ELECTIVE  
- Self-Paced Course with Lab  
- (60 min) Self-paced, interactive online training with virtual lab environment for hands-on practice.  
- [View Details](#)

Setelah itu, akan muncul course untuk Pentaho Data Integration

The screenshot shows a web browser window displaying the details of the 'Pentaho Data Integration: Evaluation (PDI1028S)' course.  
Left sidebar:  
- LESSONS  
- 01. COURSE  
 - PDI: Evaluation  
 - Introduction  
 - LAB\_PDI1028S  
 - PDI: Evaluation  
 - Completion and Survey  
- NOTES  
- SUPPORT  
- SIGN OUT  
Main content area:  
- Course / PDI: Evaluation  
- Get started with Pentaho Data Integration (PDI)!  
- Read and watch the demonstrations in this course to learn about PDI. Gain hands-on experience in a virtual lab environment and build a data pipeline for a data preparation scenario.  
- This course covers Pentaho: v9.2

Pada course ini, kita dapat menggunakan web virtual machine yang disediakan oleh pentaho.

Pentaho Data Integration: Evaluation (PDI1028S)

LUMADA

LESSONS

01. COURSE

- PDI: Evaluation
  - Introduction
  - LAB\_PDI1028S**
  - PDI: Evaluation
- Completion and Survey

NOTES

SUPPORT

SIGN OUT

Course / PDI: Evaluation

Use the course content and lab to get hands-on experience.

**Important information for using the lab**

- To access your lab's console, click the **Launch** button, wait up to **5 minutes** for it to be ready, then click **Open Lab**.
- The lab will launch in a new browser tab. Return to the original tab to view the course content and use the lab tab to interact with the lab.
- After you launch the lab for the first time, it will be available for **7 days**.
- Need help? Send us an email.

Status: Ready to provision

Launch

10/11/2022 14:40 PM

Tunggu status finish baru lunch.



Maka akan muncul halaman baru yang berisi web virtual machine.

Dashboard

Course / HITACHI VANTARA TRAINING COURSES

hitachi-vantara-training.cmlabs.skytap.com/lab\_access/self\_learner/747/a563e93de995549bfaa68b3f315937d099e9ae086686433f377bcacf4138ab11/learning\_console

Run time remaining: 7 h 59 m :33 s

Activities

Rubbish Bin

Ctrl+Alt+Del

Resources

Lab Information

Pentaho Data Integration: Evaluation (PDI1028S)

- If you would like hands-on practice with PDI to build your own data pipeline, use the lab and follow along during the guided demonstrations shown throughout the course.
- For the best experience, use two monitors. One for your lab and one to watch the course content.
- Need help? Send us an email!

Ports

The following ports within your lab are accessible from the Internet:

VM	Port	Address
Ubuntu 18.04.1 LTS Base	22	services-us-central.sky...

HITACHI  
Inspire the Next

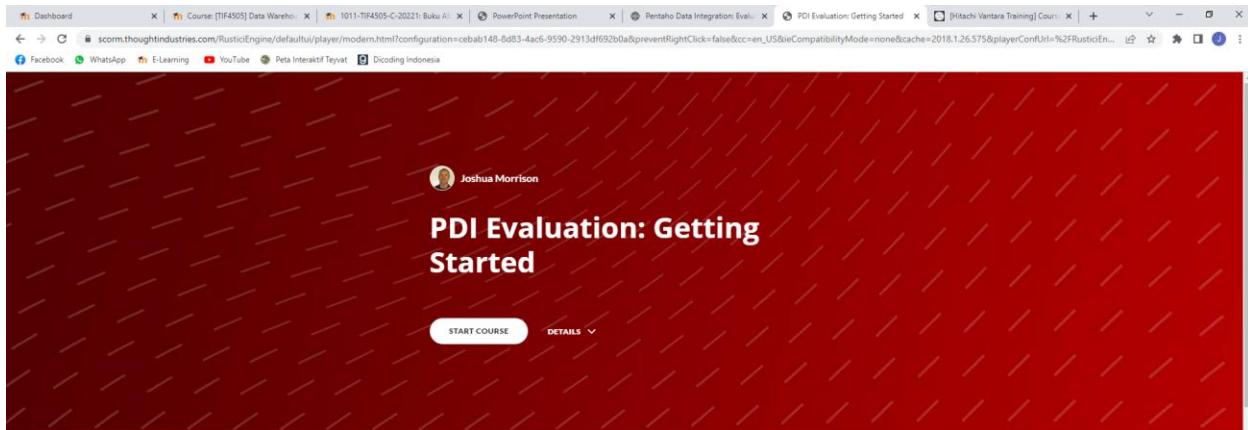
This website uses cookies to ensure you get the best experience. [Learn more](#) | [Dismiss](#)

Powered by Course Manager by Skytap

14:40 PM 10/11/2022

Course selanjutnya yaitu PDI Evaluation

Klik Start Course untuk memulai.



Pada bagian pertama terdapat video penjelasan tentang pengertian PDI dan cara penggunaannya.

A screenshot of the course player interface. On the left, there is a vertical navigation menu with sections like 'Course Introduction', 'Data Preparation Scenario', 'Your First Look at PDI', 'Take a Peak at the Solution', and 'Hands-On: Building Your Transformation'. A progress bar indicates '0% COMPLETE'. The main content area shows a video player with a black frame. Inside the frame, there is a red banner with the text 'NEW TO PDI?'. Below the video player is a red 'CONTINUE' button. The status bar at the bottom of the screen shows the date and time as '10/11/2022 1:45 PM'.

Pada bagian kedua, diberikan scenario dimana seseorang bekerja pada suatu perusahaan, dan diberikan data yang berantakan seperti standar alamat yang tidak sesuai dll. Nah solusi nya itu menggunakan PDI untuk mengolah data agar sesuai dengan standar dan format.

**Plan for Success**

It's a good idea to know what's needed to accomplish your goal. And while you're at it, plan for success!

To Do:

- Read customer file
- Fix customer data
- Load data into database

boss = 😊

PDI is awesome!

**CONTINUE**

Pada bagian 3, dijelaskan tentang tutorial penggunaan Pentaho Data Integration seperti cara untuk open file, table, preview dan lainnya.

**Objectives**

- Identify and navigate the user interface of PDI's graphical design environment called Spoon
- Describe in a general way what a transformation is and how it functions
- Create and run a simple transformation

Welcome to Pentaho Data Integration

OPEN CREATE LEARN EXTEND

Community Pentaho Forum HitachiVantara.com

**CONTINUE**

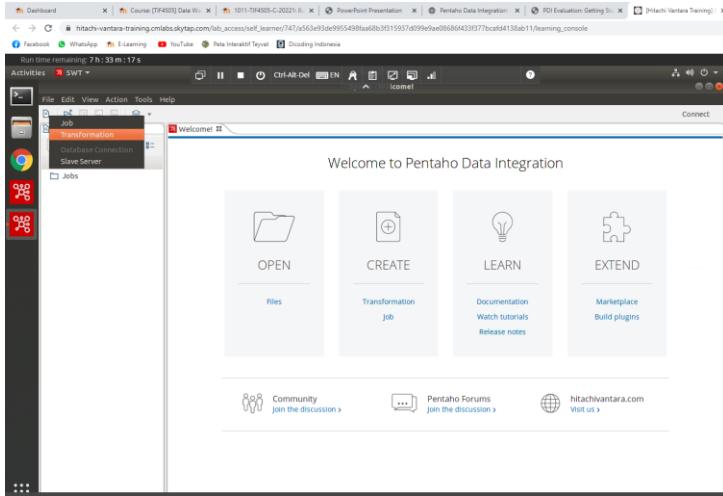
Pada bagian 4 menunjukkan seperti apa solusi di Pentaho Data Integration dan cara kerjanya.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'PDI Evaluation: Getting Started'. The page content is a presentation slide with a red background. At the top right is the HITACHI logo with the tagline 'Inspire the Next'. The main title of the slide is 'Solution Overview'. On the left side, there is a sidebar with a dark red header that says 'PDI Evaluation: Getting Started' and '80% COMPLETE'. Below the header, there is a list of course modules: 'Course Introduction', 'Data Preparation Scenario', 'Your First Look at PDI', 'Take a Peak at the Solution', and 'Hands-On Building Your Transformation'. Each module has a small circular icon next to it. At the bottom of the sidebar, it says '© 2021 HITACHI VANTARA LLC. ALL RIGHTS RESERVED.'.

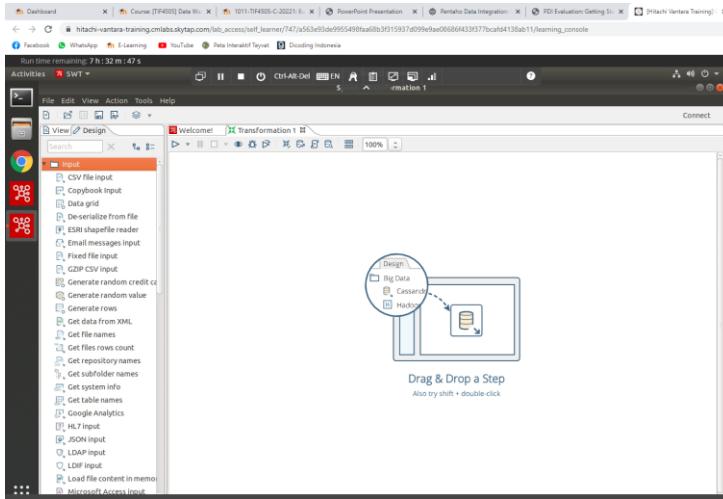
Terakhir yaitu tutorial cara menggunakan PDI ( praktek ) untuk membaca sebuah csv file dan memanipulasi data nya.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'PDI Evaluation: Getting Started'. The page content is a presentation slide with a red background. At the top right is the HITACHI logo with the tagline 'Inspire the Next'. The main title of the slide is 'Data Preparation Scenario' and 'Reading Customer Data (CSV File Input Step)'. On the left side, there is a sidebar with a dark red header that says 'PDI Evaluation: Getting Started' and '80% COMPLETE'. Below the header, there is a list of course modules: 'Course Introduction', 'Data Preparation Scenario', 'Your First Look at PDI', 'Take a Peak at the Solution', and 'Hands-On Building Your Transformation'. Each module has a small circular icon next to it. At the bottom of the sidebar, it says '© 2021 HITACHI VANTARA LLC. ALL RIGHTS RESERVED.'.

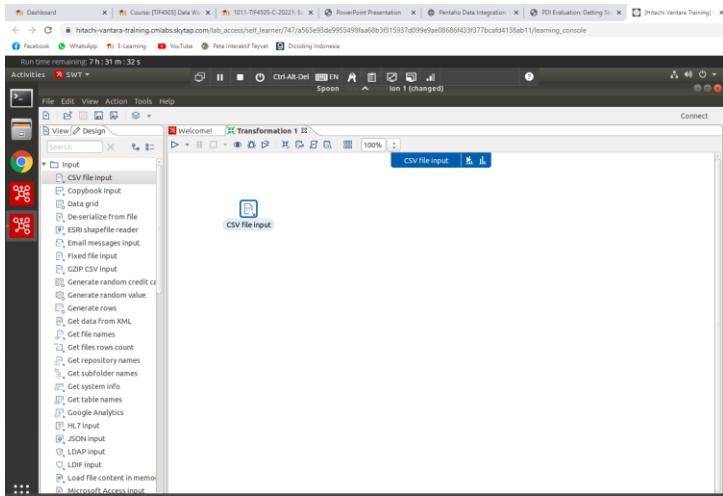
Pertama buka Pentaho, selanjutnya pada bagian new, klik transformation.



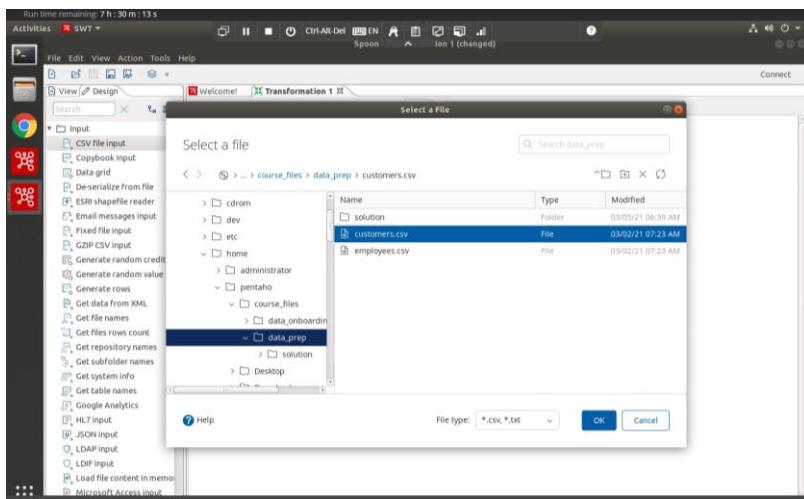
Setelah itu expand bagian input.



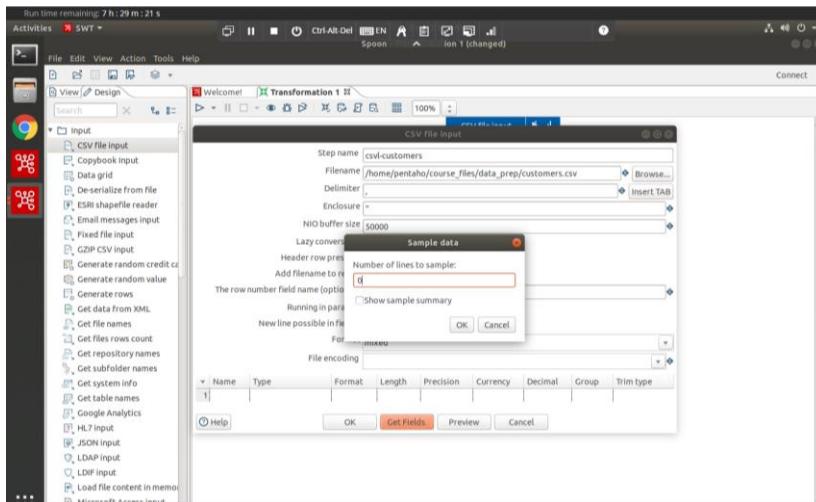
Drag and drop CSV file input.



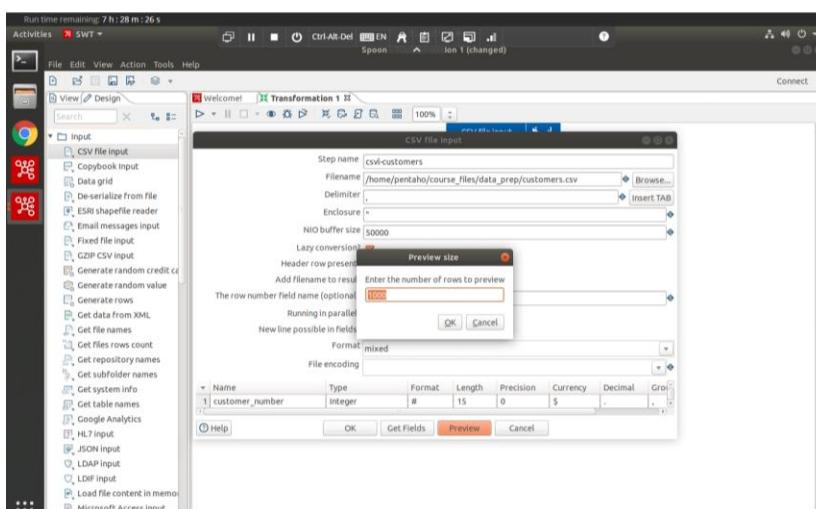
Klik 2x pada ikon CSV dan select file customer.csv



Ubah nama file sebagai berikut, pada bagian field ubah jadi 0.



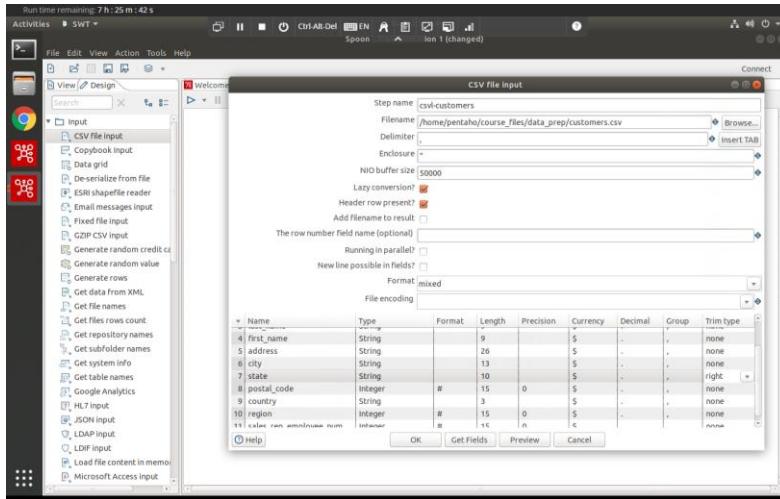
Klik preview untuk melihat isi dalam file.



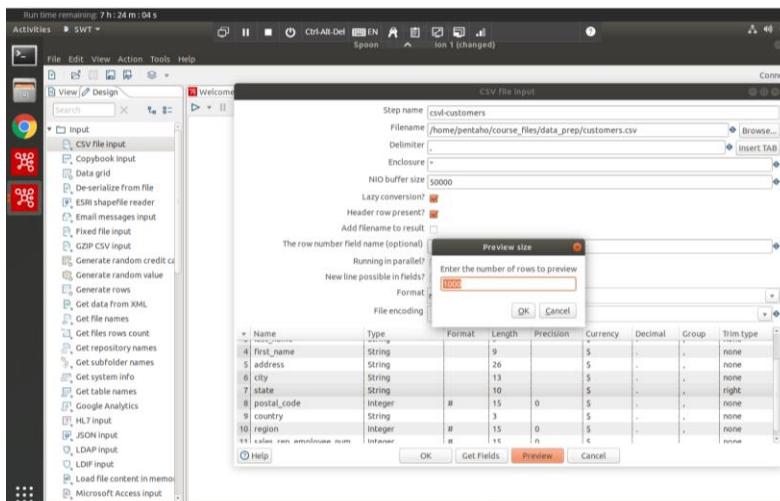
Pada data ini, terlihat adanya trailing spaces pada state. Klik close.

	customer_number	customer_name	last_name	first_name	address	city	state	postal_code	country	region	sales
1	112	Signal Gift Stores	King	Sue	245 Edgefield St.	Las Vegas	NV.	83030	USA	14	
2	124	Mini Gifts Distributors Ltd.	Nelson	Valerie	982 Lilac Street	San Rafael	CA	97504	USA	15	
3	129	Mini Wheels Co.	Murphy	Juli	125 Augusta St.	San Francisco	CA	94217	USA	15	
4	131	Union Square Inc.	Yu	Keiji	987 Springdale Road	New York	NY	10022	USA	10	
5	151	Machine-Matic Inc.	Wong	Jeff	978 Union Avenue	NYC	NY	10022	USA	10	
6	157	Diceart Classics Inc.	Yu	Kyung	907 Windsor St.	Allentown	PA	70367	USA	4	
7	161	Techrics Stores Inc.	Hirano	Juri	7473 Bishop Ave.	Burlingame	CA	94217	USA	16	
8	168	American Souvenirs Inc.	Franco	Sue	541 East Halifax Street	New Haven	CT	97823	USA	13	
9	173	Cambridge Collectables Co.	Tseng	Kyung	271 South Moon Drive	Cambridge	MA	51247	USA	5	
10	175	Gift Depot Inc.	King	Juli	9920 Pennsylvania Lane	Bridgewater	CT	97562	USA	3	
11	181	Vitachrome Inc.	Frick	Michael	48 Tower Lane	NYC	NY	10022	USA	10	
12	198	Auto-Moto Classics Inc.	Taylor	Leslie	8132 East Riverside Street	Brickhaven	MA	58339	USA	2	
13	204	Collectables	Barrera	Miguel	9801 Arcadia St.	Brickhaven	MA	58339	USA	2	
14	205	Buy-Groceries.com	Young	Alie	983 1/2 Spring Lane	Portland	ME	90001	USA	16	
15	219	Boats & Toys Co.	Young	Leslie	377 Java Ave.	Glendale	CA	92341	USA	16	
16	239	Collectable Mini Designs Co.	Thompson	Valerie	341 South Lumber St.	San Diego	CA	92127	USA	17	
17	280	Marta's Replicas Co.	Hernandez	Marta	904 Meadowbrook Street	Cambridge	MA	51247	USA	5	
18	319	Mini Classics	Frick	Steve	429 Anchorage St.	White Plains	NY	24067	USA	11	
19	320	Mini Creations Ltd.	Tam	Wing C.	357 John Drive	New Bedford	MA	05053	USA	7	
20	321	Corporate Gift Ideas Co.	Brown	Juli	908 Gray St.	San Francisco	CA	94217	USA	15	
21	328	Tekni Collectables Inc.	Brown	William	266 Court Drive	Newark	NJ	94019	USA	9	
22	339	China Connection	Decker	Francisca	901 1/2 Main Street	Philadelphia	PA	71205	USA	12	
23	347	Men 'n' Women's Wear Inc.	Chandler	Melba	229 Carrollage St.	Los Angeles	CA	10103	USA	16	
24	363	Gifts4AllAges.com	Yoshida	Juri	222 Green Lake St.	Boston	MA	51003	USA	1	
25	363	Online Discount Creations Co.	Young	Valerie	7987 Manchester St.	Nashua	NH	62005	USA	8	
26	379	Collectables For Less Inc.	Nelson	Allen	26 Corporation St.	Brickhaven	MA	58339	USA	2	
27	424	Classic Legends Inc.	Hernandez	Maria	9847 West Oceanview St.	NYC	NY	10022	USA	10	
28	447	Gift Ideas Corp.	Lewis	Dan	655 Wentworth Street	Glendale	CT	97561	USA	6	
29	450	The Sharp Gifts Warehouse	Frick	Sue	817 Pin Oak St.	San Jose	CA	94217	USA	15	
30	455	Super Scale Inc.	Murphy	Leslie	834 Bank Lane	New Haven	CT	97823	USA	13	

Kita akan mengubah trim type dari state dari none ke right.



Setelah itu preview.



Maka sudah tidak ada trailing space pada kolom state.

Run time remaining: 7h:24m:34s

Activities SWT

Rows of step: csv-customers (34 rows)

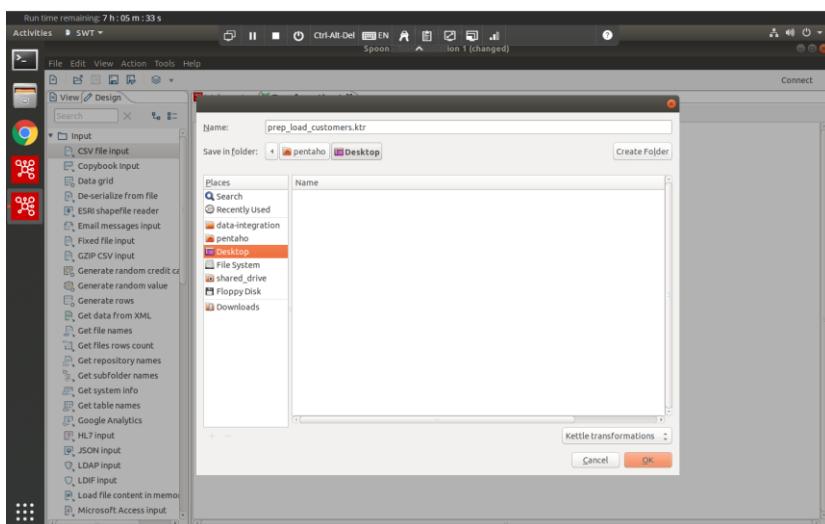
customer_number	customer_name	last_name	first_name	address	city	state	postal_code	country	region	sales_reps
1	112 Signal Gift Stores	King	Susan	240 Edgerfield St.	Las Vegas	NV	89000	USA	14	
2	113 Mini Wheels Distributors Ltd.	Nelson	Jeff	9821 Lise Street	San Rafael	CA	94163	USA	15	
3	129 Mini Wheels Co.	Murphy	Julie	125 Augusta St.	San Francisco	CA	94117	USA	15	
4	131 Land of Toys Inc.	Vu	Kwai	9 South Summit Road	NYC	NY	10022	USA	10	
5	131 Muscle Machine Inc.	Young	Jeff	9788 Union Avenue	NYC	NY	10022	USA	10	
6	137 Diecast Classics Inc.	Vu	Kyung	907 Windsor St.	Arlington	VA	20267	USA	4	
7	145 Toy Collectables	Huang	Jari	7425 1/2 Main St.	Burlingame	CA	94010	USA	16	
8	168 American Souvenirs Inc	Franco	Sue	541 East Halifax Street	New Haven	CT	97833	USA	13	
9	173 Cambridge Collectables Co.	Tseng	Kyung	271 South Moon Drive	Cambridge	MA	51247	USA	5	
10	175 Gift Depot Inc	King	Julie	9920 Pennsylvania Lane	Bridgewater	CT	97562	USA	3	
11	181 Vitachrome Inc.	Frick	Michael	48 Tower Lane	NYC	NY	10022	USA	10	
12	190 Autoreactive Collectables	Taylor	Leslie	8130 Northgate Boulevard	Bethesda	MD	58801	USA	2	
13	204 Toy Collectables	Reed	Mark	8095 Archer St	Brickhaven	MA	98319	USA	2	
14	205 Toy Collectables	Young	Julie	663 Blue Spruce Lane	Pasadena	CA	90003	USA	16	
15	219 Boards & Toys Co.	Leah	Steve	377 Java Ave.	Glendale	CA	92561	USA	16	
16	239 Collectable Mini Designs Co.	Thompson	Valarie	341 South Lumber St.	San Diego	CA	92117	USA	17	
17	289 Mart's Replicas Co.	Hernandez	Marta	904 Meadowbrook Street	Cambridge	MA	51247	USA	5	
18	319 Mini Creations Ltd.	Allen	Steve	429 Achorage St.	Wellesley Hills	MA	24067	USA	11	
19	320 Mini Creations Ltd.	Tan	Victor	537 Main Street	New York	NY	10033	USA	7	
20	321 Corporate Gift Ideas Co.	Brown	Julie	998 Gray St.	San Francisco	CA	94117	USA	15	
21	328 Tekno Collectables Inc.	Brown	William	266 Court Drive	Newark	NJ	94019	USA	9	
22	339 Classic Gift Ideas, Inc.	Cervantes	Francisca	798 Pinnacle Ave.	Philadelphia	PA	71270	USA	12	
23	347 Men 'N' US Retailers, Ltd.	Chandler	Michael	529 carriage St.	Los Angeles	CA	91003	USA	16	
24	362 Giftware Direct	Voshko	Julie	222 Manchester St.	Boston	MA	51003	USA	1	
25	363 Giftware Direct Creations Co.	Wong	Valerie	798 Manchester St.	Nashua	NH	62000	USA	8	
26	379 Collectables For Less Inc.	Nelson	Allen	26 Corporation St.	Brickhaven	MA	58339	USA	2	
27	424 Classic Legends Inc.	Hernandez	Maria	8847 West Oceanview St.	NYC	NY	10022	USA	10	
28	447 Gift Ideas Corp.	Lewis	Dan	655 Wrenwood Street	Glendale	CT	97561	USA	6	
29	454 The Sharp Gifts Warehouse	Frick	Sue	817 Pin Oak St.	San Jose	CA	94117	USA	15	
30	455 Super Scale Inc.	Murphy	Leslie	834 Baltic Lane	New Haven	CT	97823	USA	13	

Close Show Log

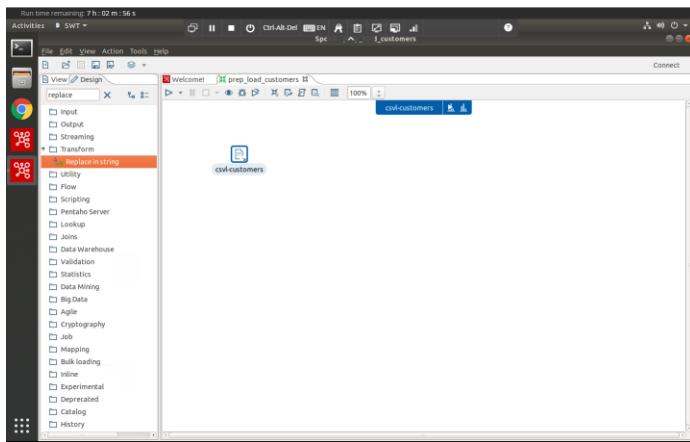
## Selanjutnya Standardize Address and State Data

The screenshot shows a software interface for data preparation. On the left, there's a navigation sidebar with a tree view of course sections like 'Course Introduction', 'Data Preparation Scenario', 'Your First Look at PDI', 'Take a peek at the Solution', and 'Hands-On Building Your Transformation'. The main area has a red background with white text. At the top, it says 'PDI Evaluation: Getting Started' and 'Data Preparation Scenario'. Below that, it says 'Standardize Address and State Data (Replace in String Step)'. There's also a 'HITACHI Inspire the Next' logo. A large red 'CONTINUE' button is at the bottom. The status bar at the bottom right shows '1:00 PM 10/11/2022'.

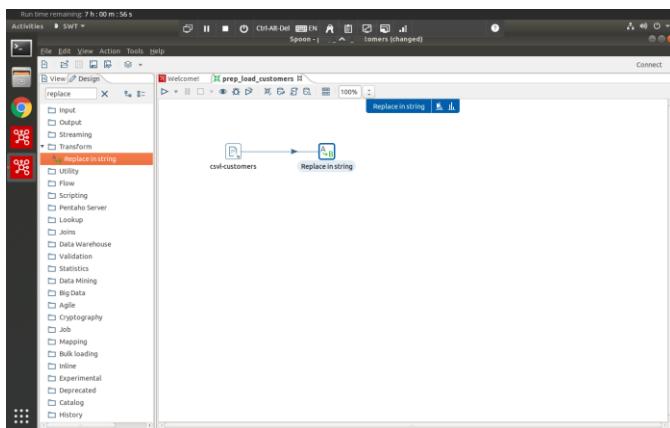
Sebelumnya save file dengan nama prep\_load\_customers.ktr di bagian Desktop



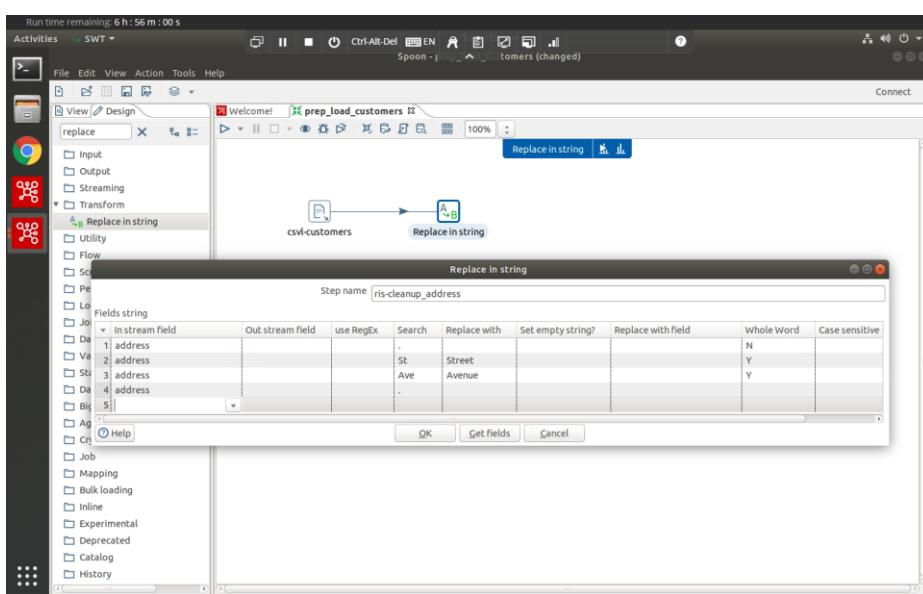
Selanjutnya klik 1x pada csvl-customers, pada bagian design, cari replace.



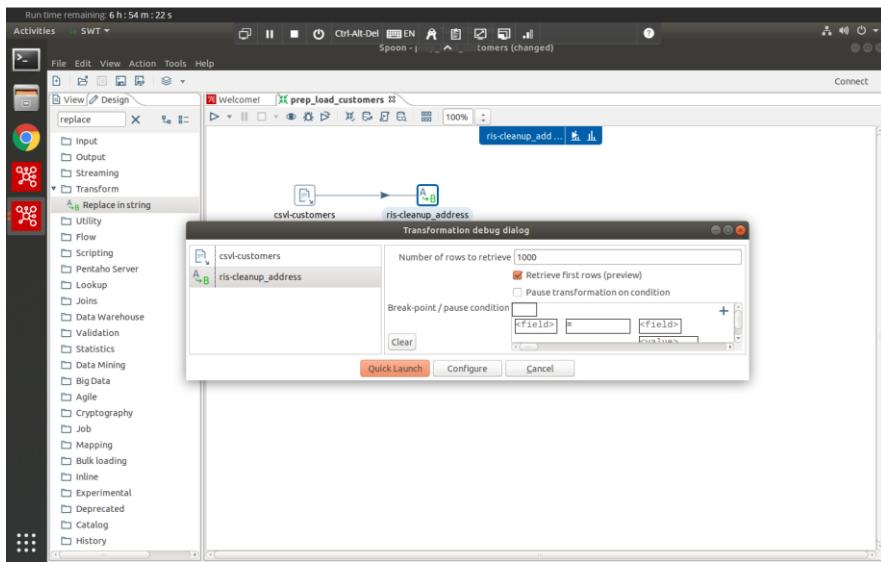
Klik 2x pada bagian desgin replace dan akan muncul replace in string yang terhubung dengan csv



Selanjutnya klik replace, dan masukkan sesuai format berikut. Jadi kita akan menghapus titik pada address dan state dan juga mengubah St dan Ave menjadi Street dan Avenue. Setelah selesai, klik Ok.



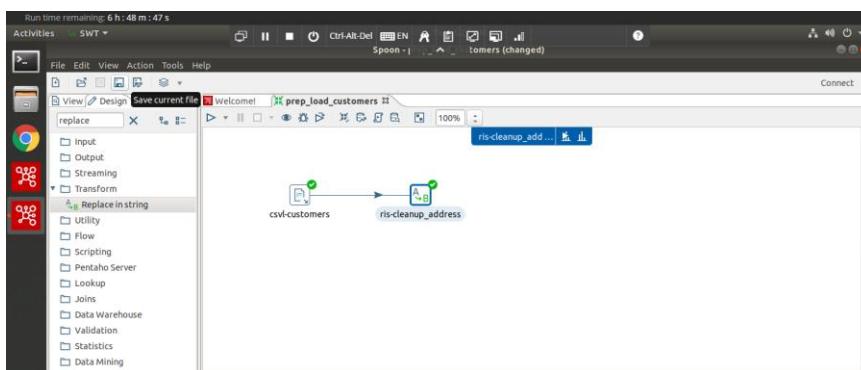
Klik kanan pada bagian cleanup\_address dan select preview. Klik Quick Launch



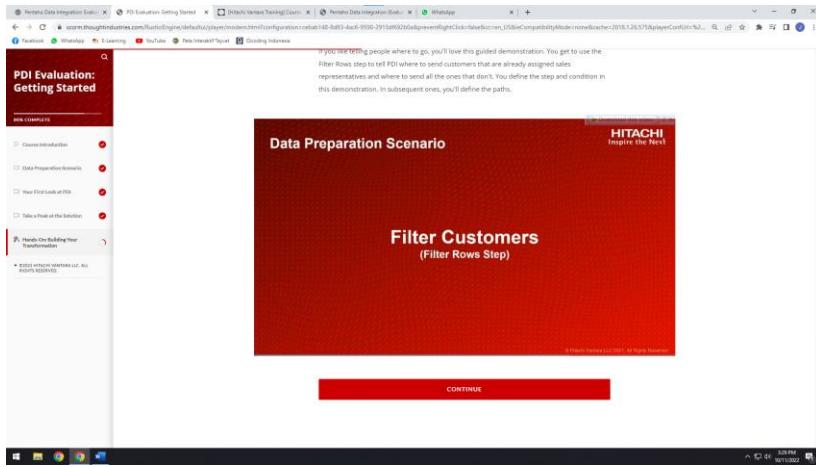
Pada kolom address, data yang tidak sesuai sudah distandarisasi sesuai dengan format.

customer_number	customer_name	last_name	first_name	address	city	state	postal_code	country	region	sales
1	112 Signal Gift Stores	King	Sue	245 Edgefield Street	Las Vegas	NV.	83030	USA	14	10000
2	124 Mini Gifts Distributors Ltd.	Nelson	Valarie	982 Lilac Street	San Rafael	CA	97562	USA	15	10000
3	129 Mini Wheels Co.	Murphy	Julie	125 Augusta Street	San Francisco	CA	94217	USA	15	10000
4	131 Land of Toys Inc.	Yu	Kwai	9 South Summit Road	NYC	NY	10022	USA	10	10000
5	151 Muscle Machine Inc	Young	Jeff	9788 Union Avenue	NYC	NY	10022	USA	10	10000
6	157 Diecast Classics Inc.	Yu	Kyung	907 Windsor Street	Allentown	PA	70267	USA	4	10000
7	161 Techincs Stores Inc.	Hirano	Juri	7473 Bishop Avenue	Burlingame	CA	94217	USA	16	10000
8	168 American Souvenirs Inc	Franco	Sue	541 East Halifax Street	New Haven	CT	97823	USA	13	10000
9	173 Cambridge Collectables Co.	Tseng	Kyung	271 South Moon Drive	Cambridge	MA	51247	USA	5	10000
10	175 Gift Depot Inc.	King	Julie	9920 Pennsylvania Lane	Bridgewater	CT	97562	USA	3	10000
11	181 Vitzachrome Inc.	Frick	Michael	48 Tower Lane	NYC	NY	10022	USA	10	10000
12	198 Auto-Moto Classics Inc.	Taylor	Leslie	8132 East Riverside Street	Brickhaven	MA	58339	USA	2	10000
13	204 Online Mini Collectables	Barajas	Miguel	8093 Archer Street	Brickhaven	MA	58339	USA	2	10000
14	205 Toys4GrownUps.com	Young	Julie	663 Blue Spring Lane	Pasadena	CA	90003	USA	16	10000
15	219 Boards & Toys Co.	Young	Leslie	377 Java Avenue	Glendale	CA	92561	USA	16	10000
16	239 Collectable Mini Designs Co.	Thompson	Valarie	341 South Lumber Street	San Diego	CA	91217	USA	17	10000
17	266 Marta's Replicas Co.	Hernandez	Marta	904 Meadowbrook Street	Cambridge	MA	51247	USA	5	10000
18	319 Mini Classics	Frick	Steve	429 Anchorage Street	White Plains	NY	24067	USA	11	10000
19	320 Mini Creations Ltd.	Tam	Wing C	357 John Drive	New Bedford	MA	50553	USA	7	10000
20	321 Corporate Gift Ideas Co.	Brown	Julie	908 Gray Street	San Francisco	CA	94217	USA	15	10000
21	328 Tekni Collectables Inc.	Willian	William	266 Court Drive	Newark	NJ	94019	USA	9	10000
22	339 Classic Gift Ideas, Inc.	Cervante	Francisca	798 Pinnacle Avenue	Philadelphia	PA	71270	USA	12	10000
23	347 Men 'R' US Retailers, Ltd.	Chandler	Michael	529 carriage Street	Los Angeles	CA	91003	USA	16	10000
24	362 Gifts4AllAges.com	Yoshido	Juri	222 Green Lake Street	Boston	MA	51003	USA	1	10000
25	363 Online Diecast Creations Co.	Young	Valarie	7987 Manchester Street	Nashua	NH	62005	USA	8	10000
26	379 Collectables For Less Inc.	Nelson	Allen	26 Corporation Street	Brickhaven	MA	58339	USA	2	10000
27	424 Classic Legends Inc.	Hernandez	Maria	8847 West Oceanview Street	NYC	NY	10022	USA	10	10000
28	447 Gift Ideas Corp.	Lewis	Dan	655 Wentworth Street	Glendale	CT	97561	USA	6	10000
29	450 The Sharp Gifts Warehouse	Frick	Sue	817 Pin Oak Street	San Jose	CA	94217	USA	15	10000
30	455 Super Scale Inc.	Murphy	Leslie	834 Bank Lane	New Haven	CT	97823	USA	13	10000

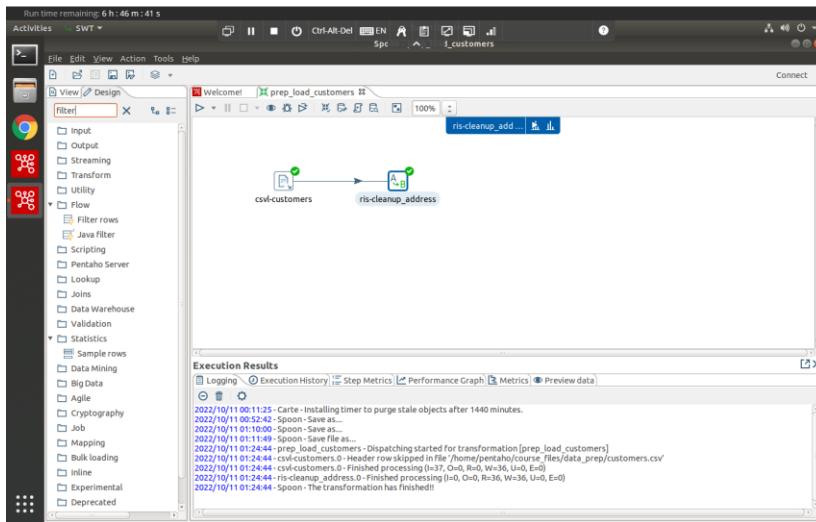
Setelah itu save current file.



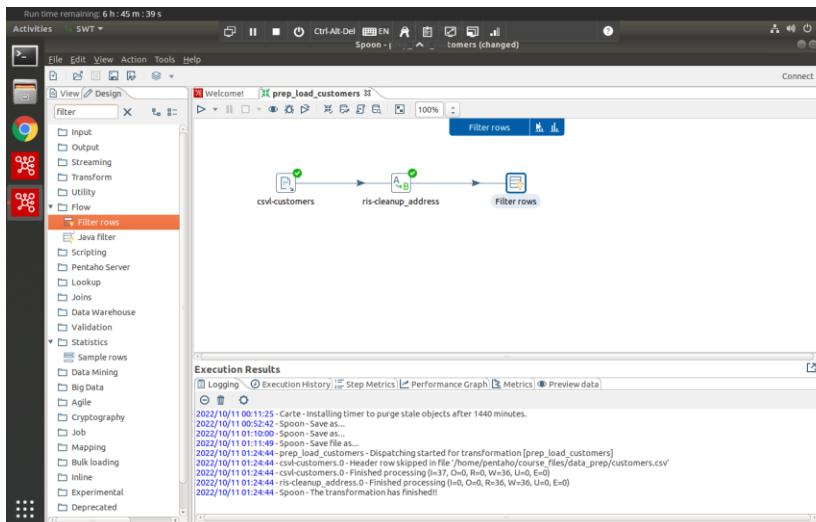
## Selanjutnya Filter Customers.



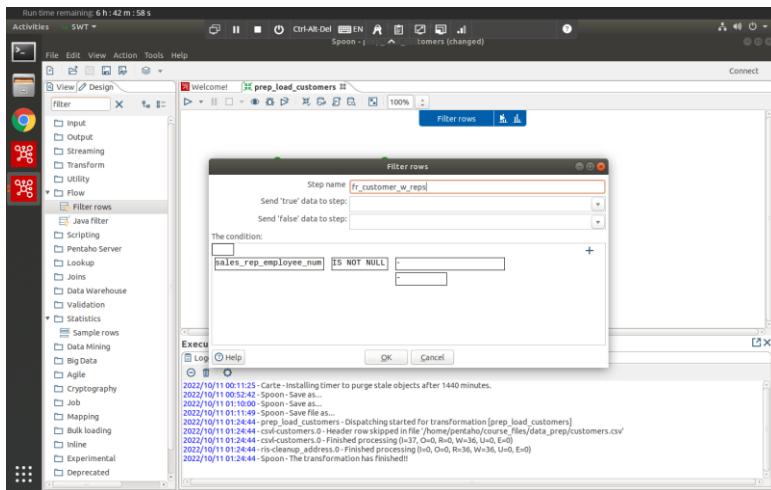
Pada bagian design, cari filter.



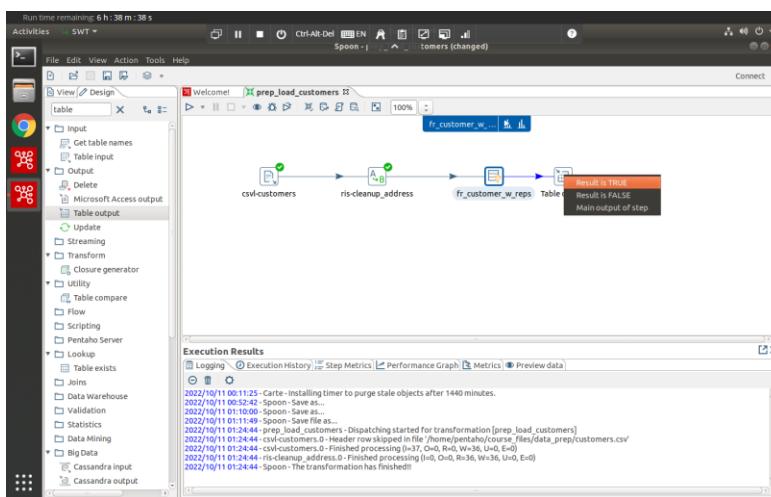
Drag and drop Filter rows.



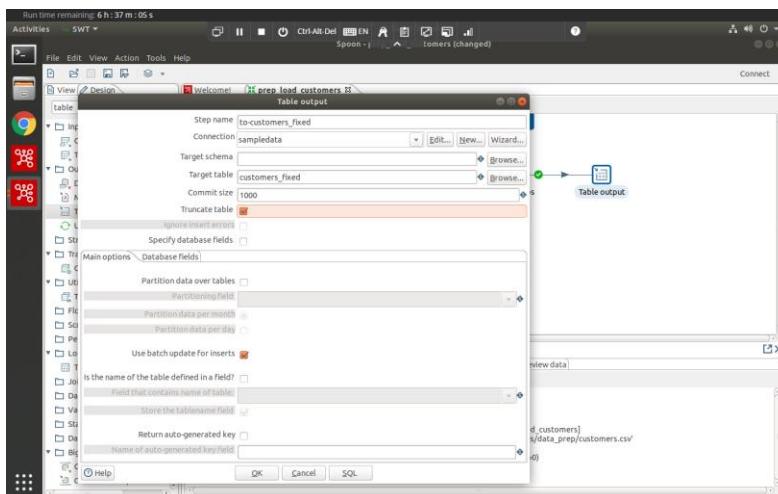
Klik 2x pada filter rows dan ubah step name dan condition seperti berikut.



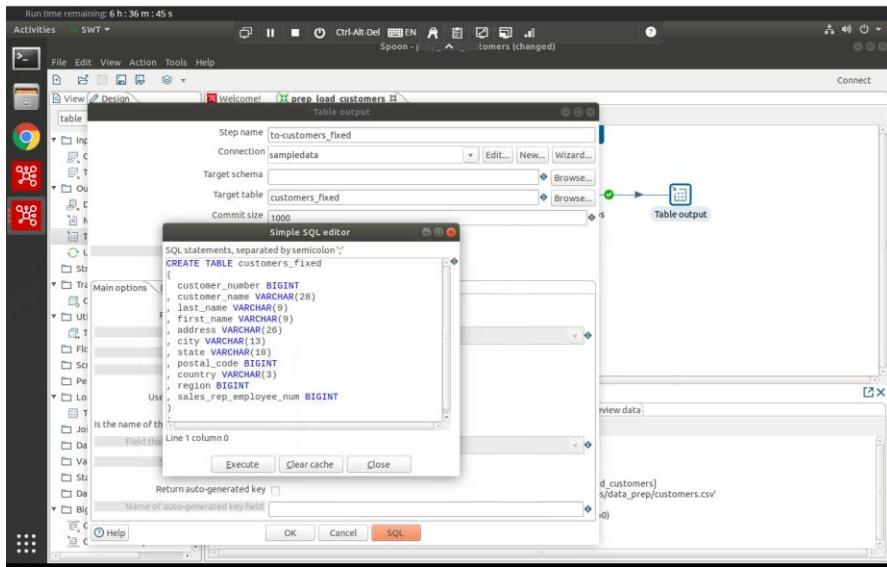
Tekan Ok. Selanjutnya pada bagian design cari table output dan drag line dari filter ke table output dengan condition ifresult is TRUE.



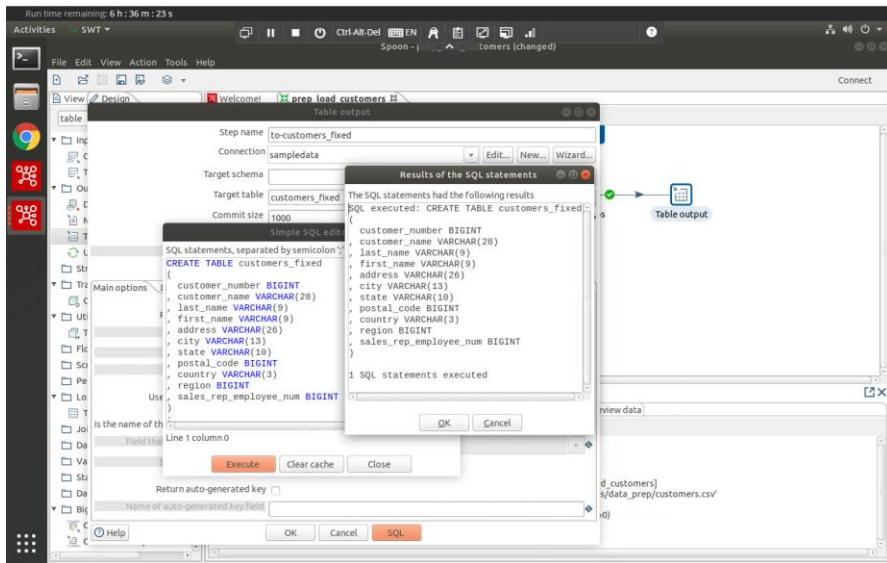
Selanjutnya ubah step name dan target table pada bagian table output.



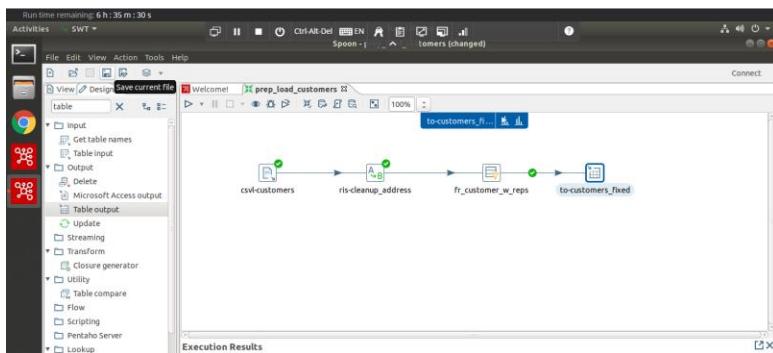
Setelah itu klik SQL.



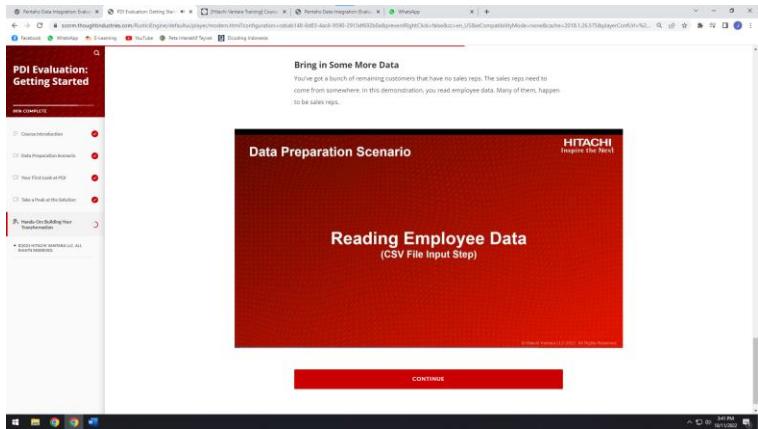
Klik Execute dan Ok.



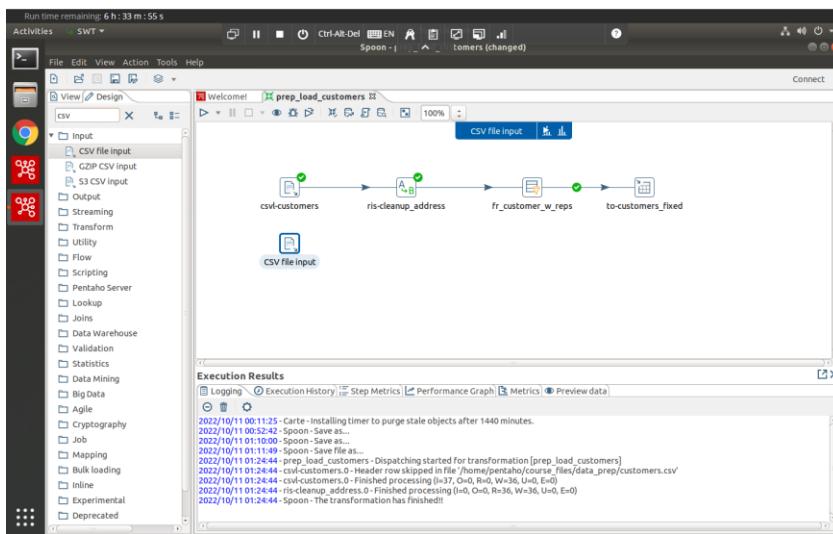
Setelah itu save file.



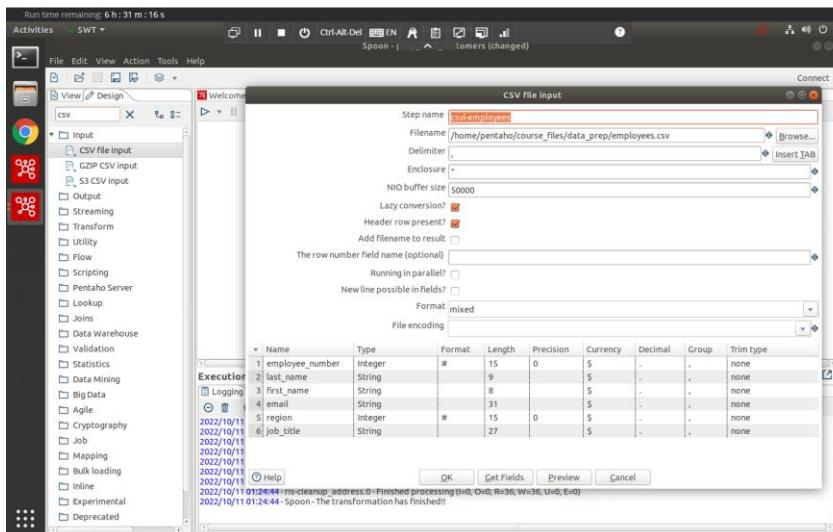
## Selanjutnya Reading Employee data



Caranya tidak berbeda dengan reading costumer data. Pada bagian design, drag and drop csv input file.



Selanjutnya ubah nama file dan browse file employees.csv



## Preview file untuk employees.csv

Run time remaining: 6 h: 30 m: 52 s

Activities SWT

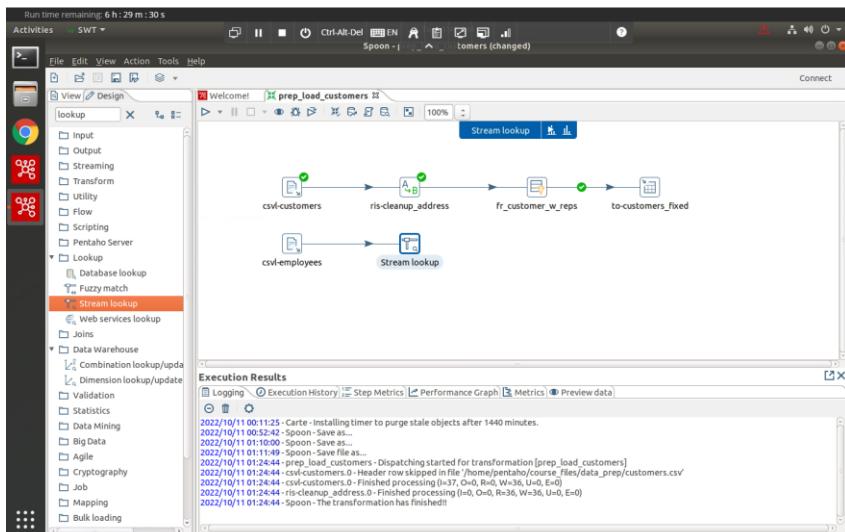
	employee_number	last_name	first_name	email	region	job_title
1	1002	Murphy	Diane	dmurphy@classicmodelcars.com	<null>	President
2	1056	Patterson	Mary	mpatterson@classicmodelcars.com	<null>	VP Sales
3	1076	Firelli	Jeff	jfirelli@classicmodelcars.com	<null>	VP Marketing
4	1086	Patterson	William	w.patterson@classicmodelcars.com	<null>	Sales Manager (JAPAN, APAC)
5	1101	Bondur	Gerard	gbondur@classicmodelcars.com	<null>	Sale Manager (EMEA)
6	1143	Ackerman	Anthony	a.ackerman@classicmodelcars.com	<null>	Sale Manager (NA)
7	1165	Jennings	Leslie	ljennings@classicmodelcars.com	1	Sales Rep
8	1166	Thompson	Leslie	l.thompson@classicmodelcars.com	1	Sales Rep
9	1188	Firelli	Julie	j.firelli@classicmodelcars.com	4	Sales Rep
10	1216	Patterson	Steve	s.patterson@classicmodelcars.com	8	Sales Rep
11	1282	Tseng	Foon Yue	f.tseng@classicmodelcars.com	14	Sales Rep
12	1323	Vaauuf	George	g.vaauuf@classicmodelcars.com	3	Sales Rep
13	1337	Bondur	Loui	l.bondur@classicmodelcars.com	17	Sales Rep
14	1370	Hernandez	Gerard	ghernandez@classicmodelcars.com	9	Sales Rep
15	1401	Castillo	Pamela	p.castillo@classicmodelcars.com	13	Sales Rep
16	1501	Bott	Larry	lbott@classicmodelcars.com	16	Sales Rep
17	1564	Jones	Barry	b.jones@classicmodelcars.com	7	Sales Rep
18	1611	Fixter	Andy	a.fixter@classicmodelcars.com	11	Sales Rep
19	1612	Peters	Peter	p.peters@classicmodelcars.com	10	Sales Rep
20	1619	King	Tom	t.king@classicmodelcars.com	15	Sales Rep
21	1621	Nishi	Mami	m.nishi@classicmodelcars.com	12	Sales Rep
22	1625	Kato	Yoshimi	y.kato@classicmodelcars.com	6	Sales Rep
23	1702	Gerard	Martin	g.martin@classicmodelcars.com	5	Sales Rep

Close Show Log

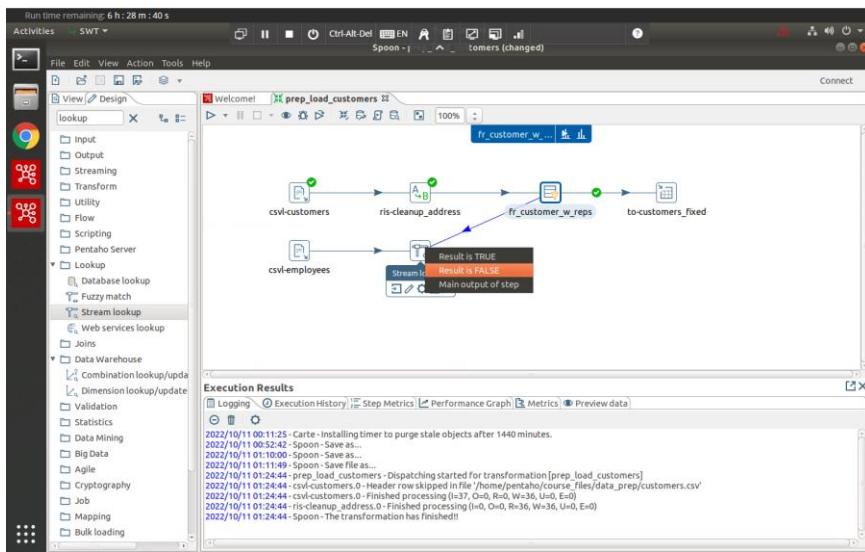
## Selanjutnya Lookup Employee Number

The screenshot shows a software interface for data integration. On the left, there's a sidebar with a navigation menu for 'PDI Evaluation: Getting Started' and a 'Data Preparation Scenario' section. The main area is titled 'Data Preparation Scenario' and 'Hitachi Inspire the Next'. It displays a step titled 'Lookup Employee Number (Stream Lookup Step)' with a red background. At the bottom of the main window, there's a large red 'CONTINUE' button.

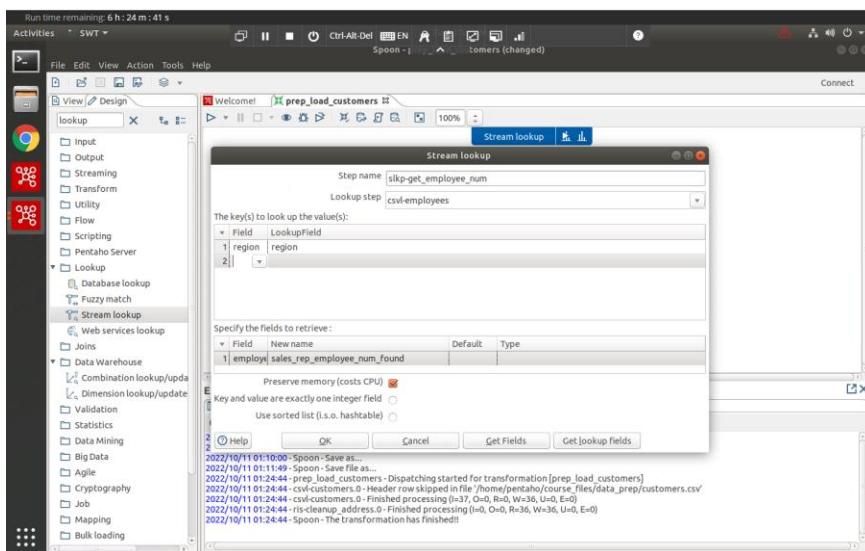
Pada bagian design, cari lookup. Drag and drop stream lookup ke project.



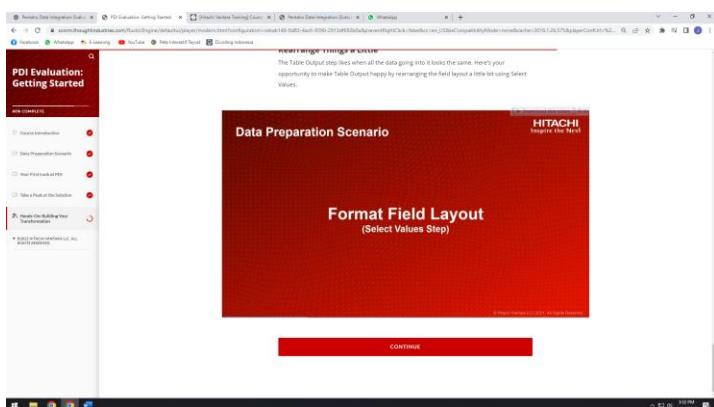
Drag line dari filter ke lookup dengan condition Result is False.



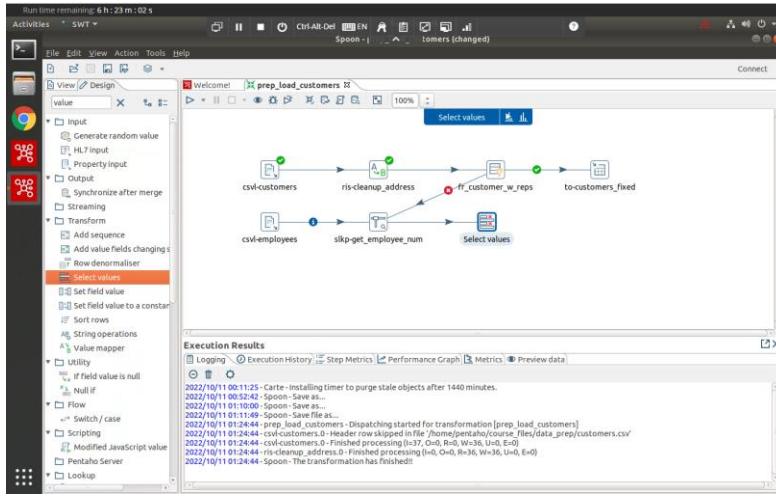
Klik Stream lookup dan ubah sesuai dengan gambar dibawah. Klik Ok jika selesai.



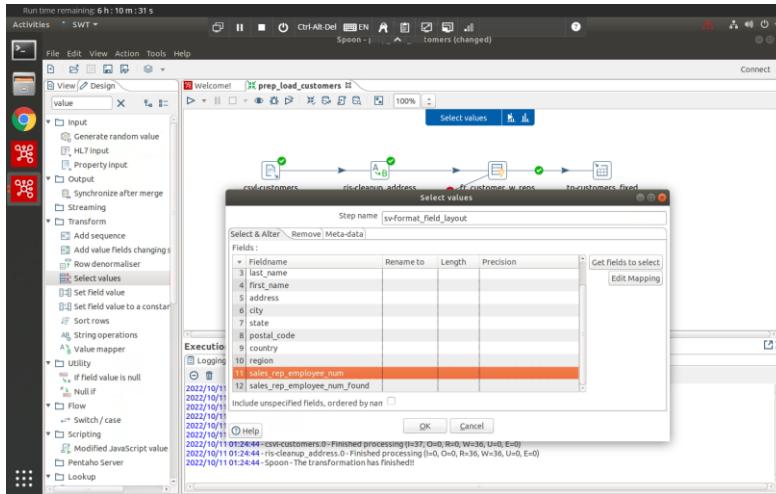
Next ada Format Field Layout



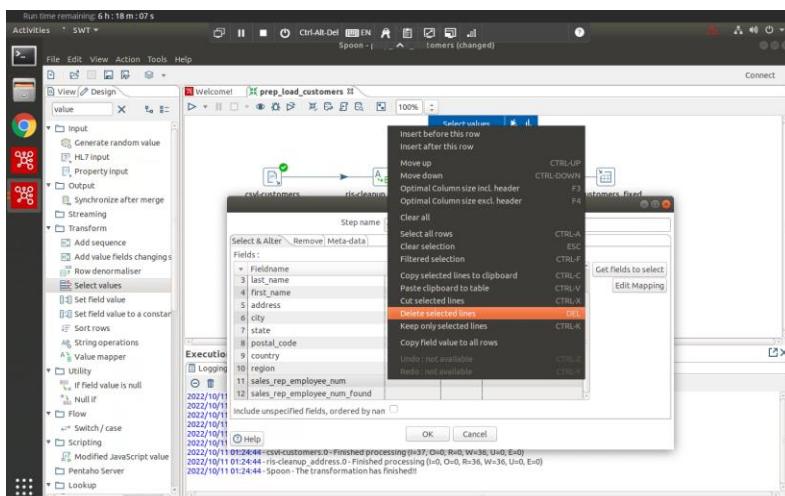
Pada bagian design, cari select values. Drag and drop ke dalam project.



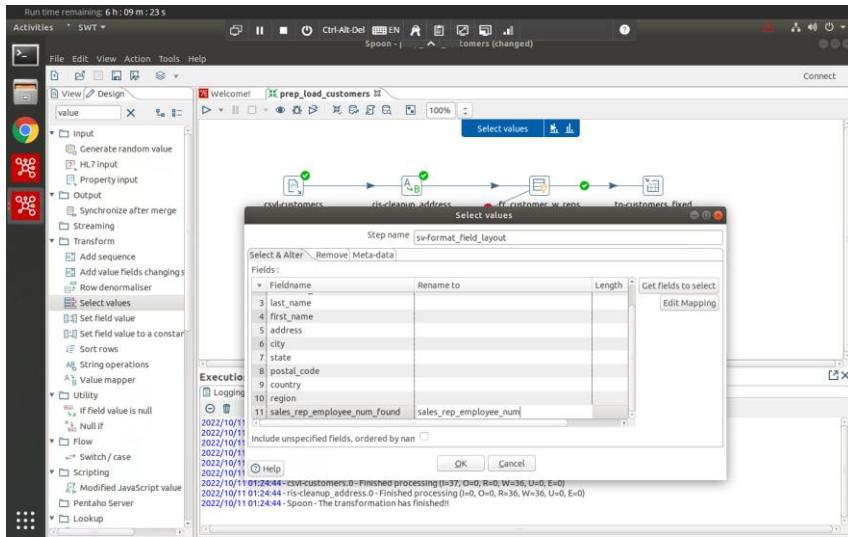
Klik Select Values → Get Field to Select.



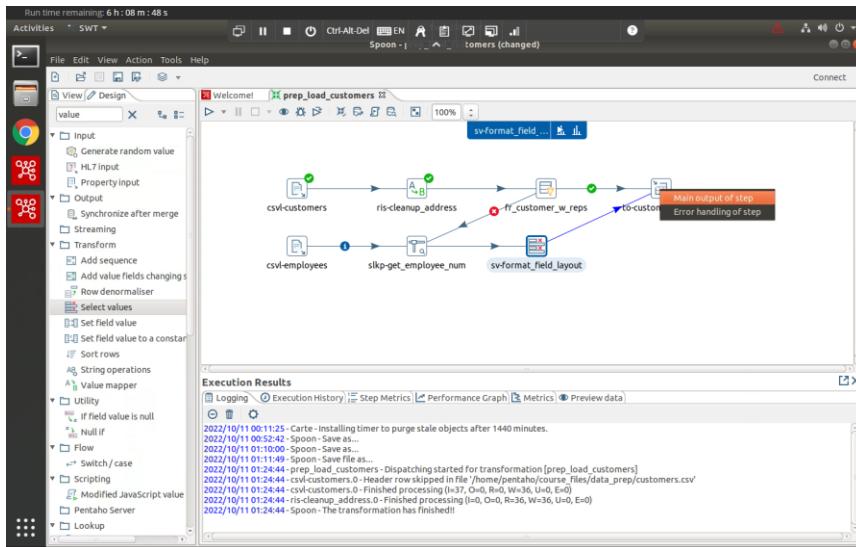
Pada bagian sales\_rep\_employee\_num, kita delete line tersebut.



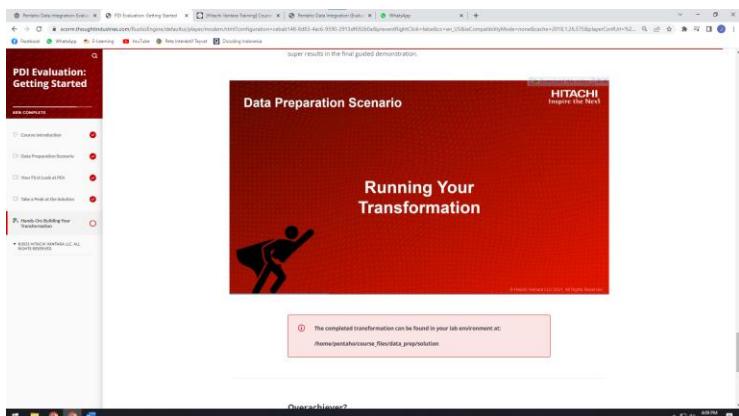
Selanjutnya kita rename sales\_rep\_employee\_num\_found ke sales\_rep\_employee\_num.



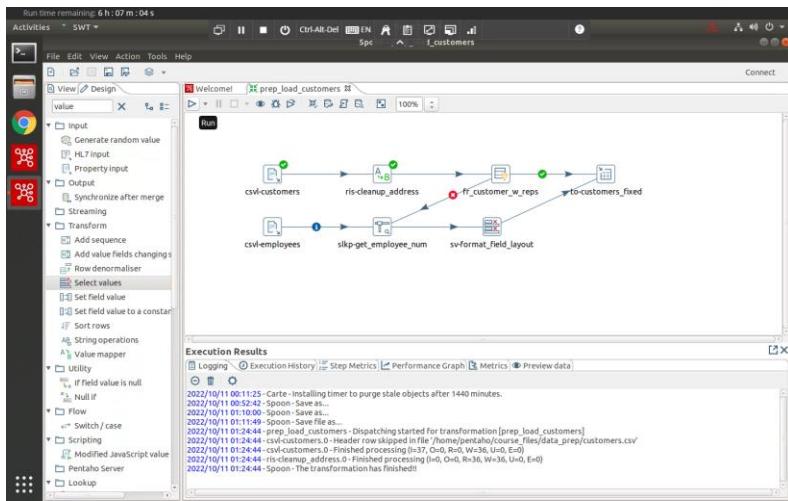
Drag Line dari Select Values ke table output dengan condition main outout of step.



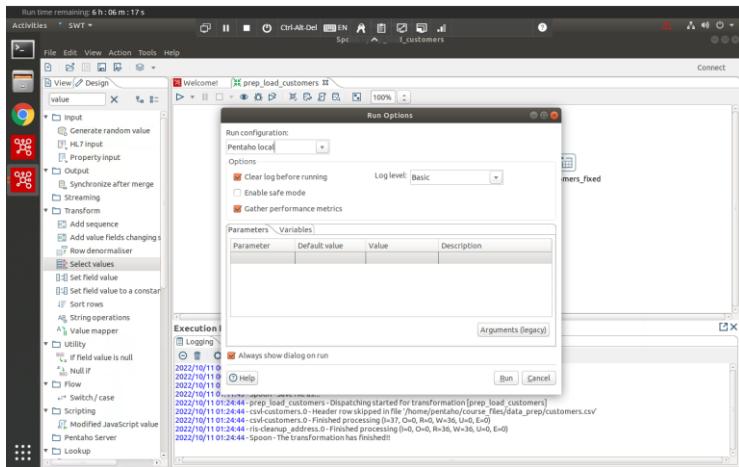
Selanjutnya mari kita jalankan transformasi.



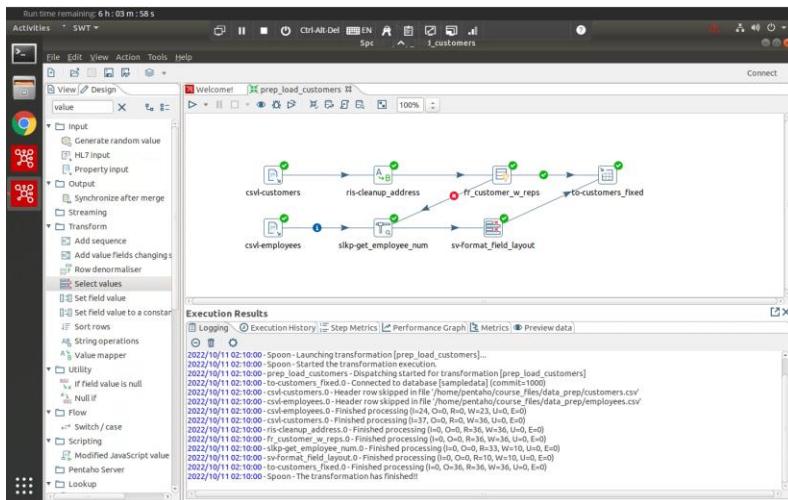
Pada bagian kiri project, terdapat ikon run, klik ikon tersebut.



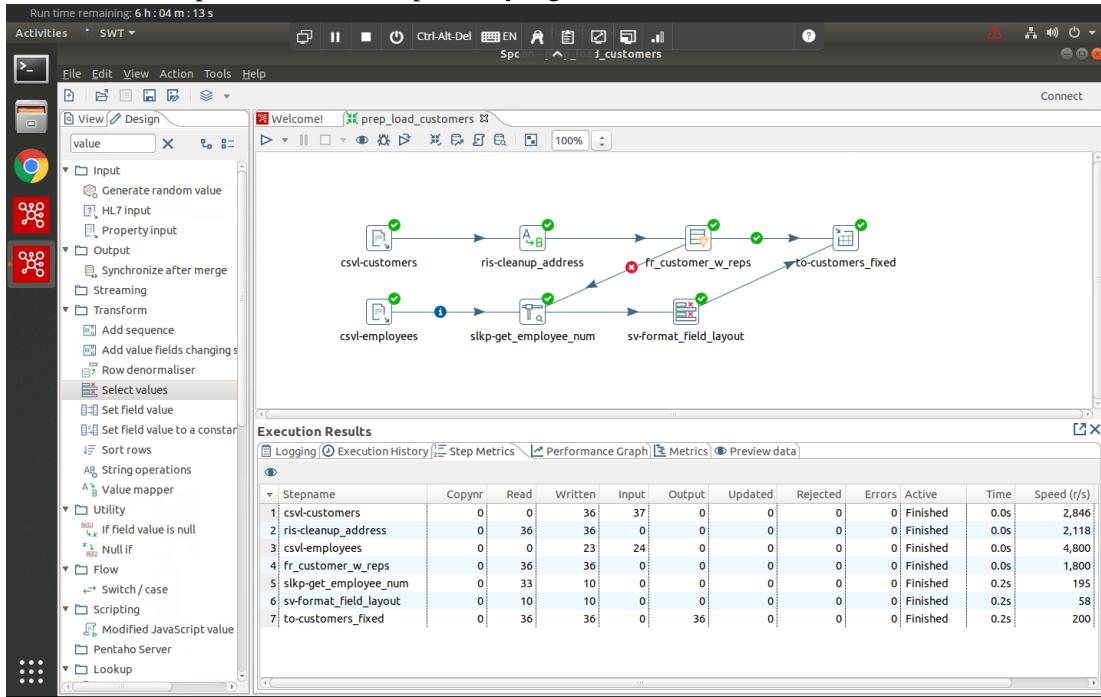
Klik run.



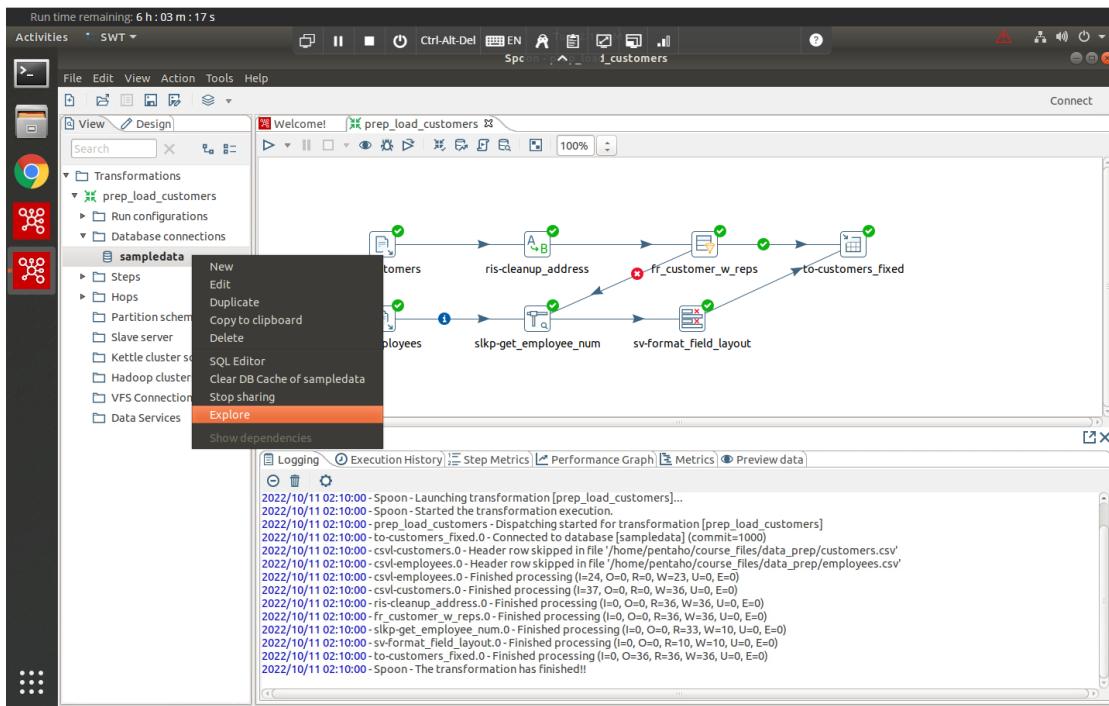
Jika tidak ada kesalahan, maka akan menunculkan tanda ceklis hijau dan pada logging terdapat tanda bahwa transformation is finished.



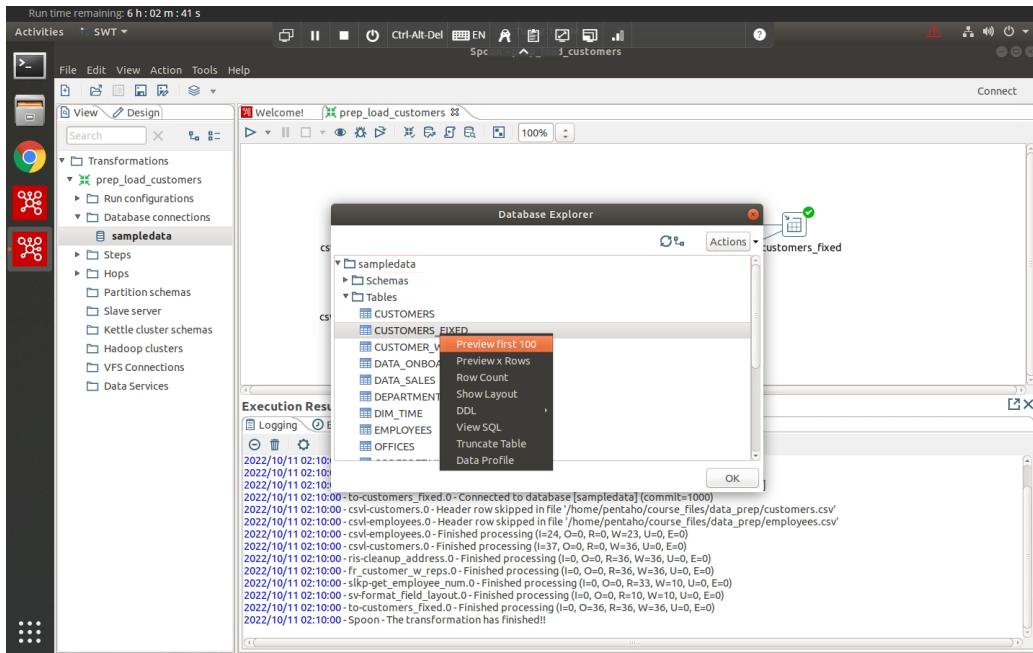
Selanjutnya tab Step Metrics, bertujuan untuk menunjukkan pemrosesan data pada setiap step contohnya to-customers\_fixed memiliki output 36, yang berarti terdapat 36 data yang masuk ke dalam table customer\_fixed pada database sampledata yang sudah dibentuk.



Setelah itu, pada bagian view, database connections, bagian sampledata, klik kanan dan pilih explore.



Klik kanan pada customers\_fixed dan select preview first 100 untuk menampilkan 100 data pada table customers\_fixed.



Dapat dilihat pada data dibawah ini, data sudah diubah ke dalam bentuk standarisasi yang benar.

	CUSTOMER_NUMBER	CUSTOMER_NAME	LAST_NAME	FIRST_NAME	ADDRESS	CITY	STATE	POSTAL_CODE	COUNTRY	REGION
1	112	Signal Gift Stores	King	Sue	245 Edgefield Street	Las Vegas	NV.	83030	USA	
2	131	Land of Toys Inc.	Yu	Kwai	9 South Summit Road	NYC	NY	10022	USA	
3	157	Diecast Classics Inc.	Yu	Kyung	907 Windsor Street	Allentown	PA	70267	USA	
4	161	Technics Stores Inc.	Hirano	Juri	7473 Bishop Avenue	Burlingame	CA.	94217	USA	
5	163	American Souvenirs Inc	Franco	Sue	541 East Halifax Street	New Haven	CT.	97823	USA	
6	173	Cambridge Collectables Co.	Tseng	Kyung	271 South Moon Drive	Cambridge	MA	51247	USA	
7	175	Gift Depot Inc.	King	Julie	9920 Pennsylvania Lane	Bridgewater	CT	97562	USA	
8	198	Auto-Moto Classics Inc.	Taylor	Leslie	8132 East Riverside Street	Brickhaven	MA	58339	USA	
9	204	Online Mini Collectables	Barajas	Miguel	8093 Archer Street	Brickhaven	MA	58339	USA	
10	205	Toys4GrownUps.com	Young	Julie	663 Blue Spring Lane	Pasadena	CA	90003	USA	
11	286	Marta's Replicas Co.	Hernandez	Marta	904 Meadowbrook Street	Cambridge	MA	51247	USA	
12	319	Mini Classics	Frick	Steve	429 Achorage Street	White Plains	NY.	24067	USA	
13	320	Mini Creations Ltd.	Tam	Wing C	357 John Drive	New Bedford	MA.	50553	USA	
14	321	Corporate Gift Ideas Co.	Brown	Julie	908 Gray Street	San Francisco	CA	94217	USA	
15	322	Tekni Collectables Inc.	Brown	William	266 Court Drive	Newark	NJ	94019	USA	
16	339	Classic Gift Ideas, Inc	Cervantes	Francisca	798 Pinnacle Avenue	Philadelphia	PA	71270	USA	
17	347	Men R' US Retailers, Ltd.	Chandler	Michael	529 Carriage Street	Los Angeles	CA.	91003	USA	
18	362	GiftsAllAges.com	Yoshido	Juri	222 Green Lake Street	Boston	MA	51003	USA	
19	363	Online Diecast Creations Co.	Young	Valarie	7987 Manchester Street	Nashua	NH	62005	USA	
20	424	ClassicLegends Inc.	Hernandez	Maria	8847 West Oceanview Street	NYC	NY	10022	USA	
21	447	Gift Ideas Corp.	Lewis	Dan	655 Wentworth Street	Glendale	CT	97561	USA	
22	450	The Sharp Gifts Warehouse	Frick	Sue	817 Pin Oak Street	San Jose	CA	94217	USA	
23	455	Super Scale Inc.	Murphy	Leslie	834 Bank Lane	New Haven	CT.	97823	USA	
24	456	Microscale Inc.	Kuo	Kee	43 Fairfield Court	NYC	NY	10022	USA	
25	475	West Coast Collectables Co.	Thompson	Steve	385 Windsor Drive	Burbank	CA	94019	USA	
26	484	Motor Mint Distributors Inc.	Hernandez	Rosa	9296 South Wharf Avenue	Philadelphia	PA	71270	USA	
27	124	Mini Gifts Distributors Ltd.	Nelson	Valarie	982 Lilac Street	San Rafael	CA	97562	USA	
28	129	Mini Wheels Co.	Murphy	Julie	125 Augusta Street	San Francisco	CA	94217	USA	
29	151	Muscle Machine Inc	Young	Jeff	9788 Union Avenue	NYC	NY	10022	USA	
30	181	Vitachrome Inc.	Frick	Michael	48 Tower Lane	NYC	NY	10022	USA	