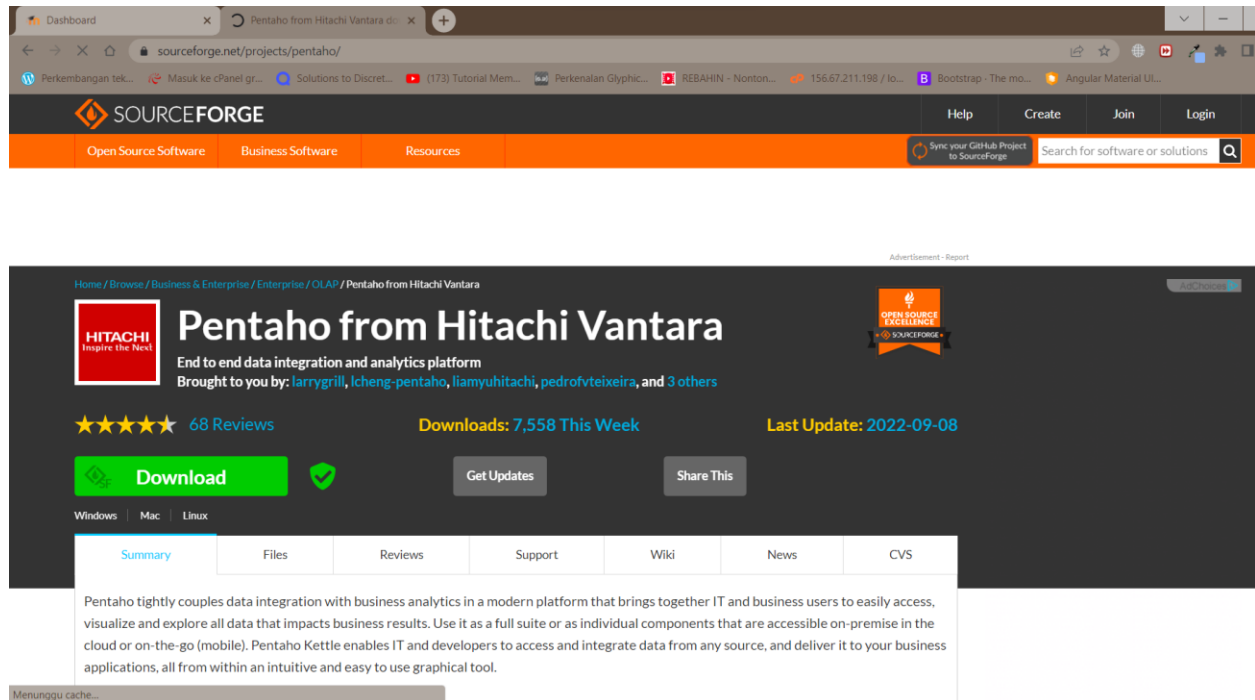


Nama : Monang Limbong  
NIM : 191402082  
Kelas : C

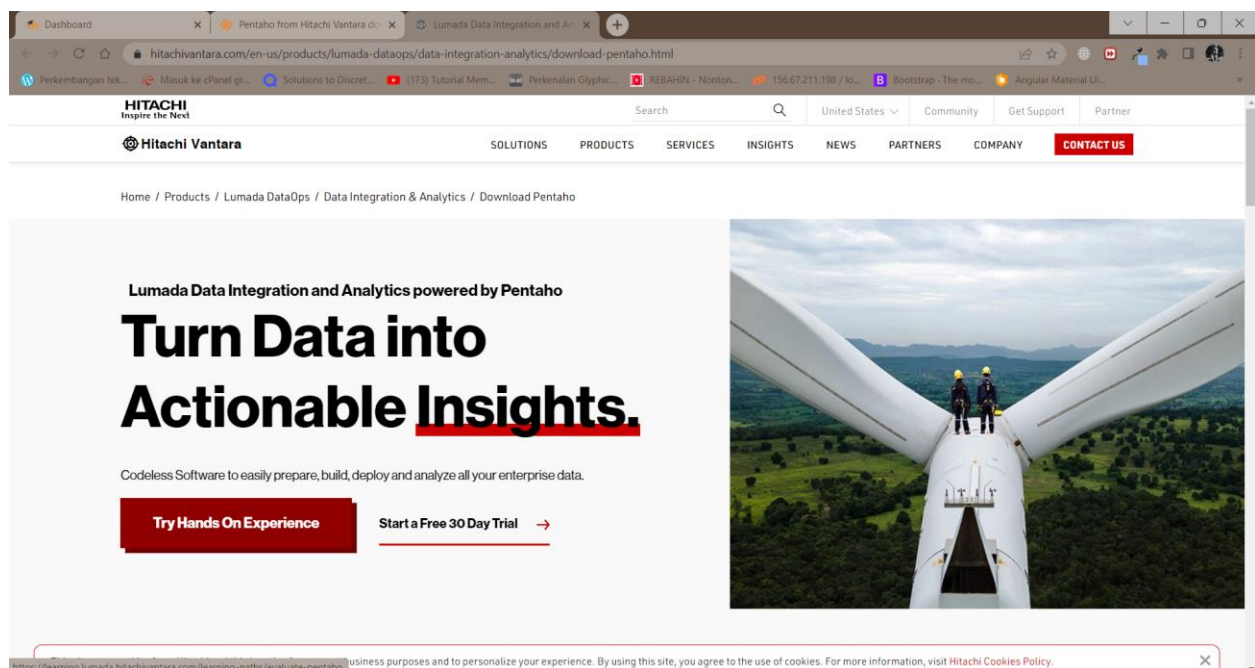
## Tugas I Data Warehouse Dan Bisnis Intelligence

1. Download Pentaho dari <https://sourceforge.net/projects/pentaho/>



The screenshot shows the SourceForge project page for "Pentaho from Hitachi Vantara". The page features the SourceForge logo at the top, followed by navigation links for Open Source Software, Business Software, and Resources. The main content area displays the project title "Pentaho from Hitachi Vantara" with a sub-header "End to end data integration and analytics platform". Below this, it lists contributors: "Brought to you by: larrygrill, lcheng-pentaho, liamyhitachi, pedrofteixeira, and 3 others". The page also shows a star rating of 4.5 stars with 68 reviews, download statistics of 7,558 downloads this week, and a last update date of 2022-09-08. A prominent green "Download" button is visible, along with "Get Updates" and "Share This" buttons. A tabbed interface at the bottom includes "Summary", "Files", "Reviews", "Support", "Wiki", "News", and "CVS". The "Summary" tab is active, displaying a description of Pentaho as a platform that tightly couples data integration with business analytics.

2. Registrasi Akun Pentaho dengan cara mengklik Try Hands On Experience.



The screenshot shows the Hitachi Vantara website, specifically the "Download Pentaho" page. The page features the Hitachi Vantara logo and navigation links for SOLUTIONS, PRODUCTS, SERVICES, INSIGHTS, NEWS, PARTNERS, COMPANY, and a red "CONTACT US" button. The main content area displays the heading "Lumada Data Integration and Analytics powered by Pentaho" followed by the large text "Turn Data into Actionable Insights." Below this, it states "Codeless Software to easily prepare, build, deploy and analyze all your enterprise data." Two buttons are visible: "Try Hands On Experience" and "Start a Free 30 Day Trial". The background image shows two people standing on a large, white, wing-like structure against a landscape with mountains and trees.

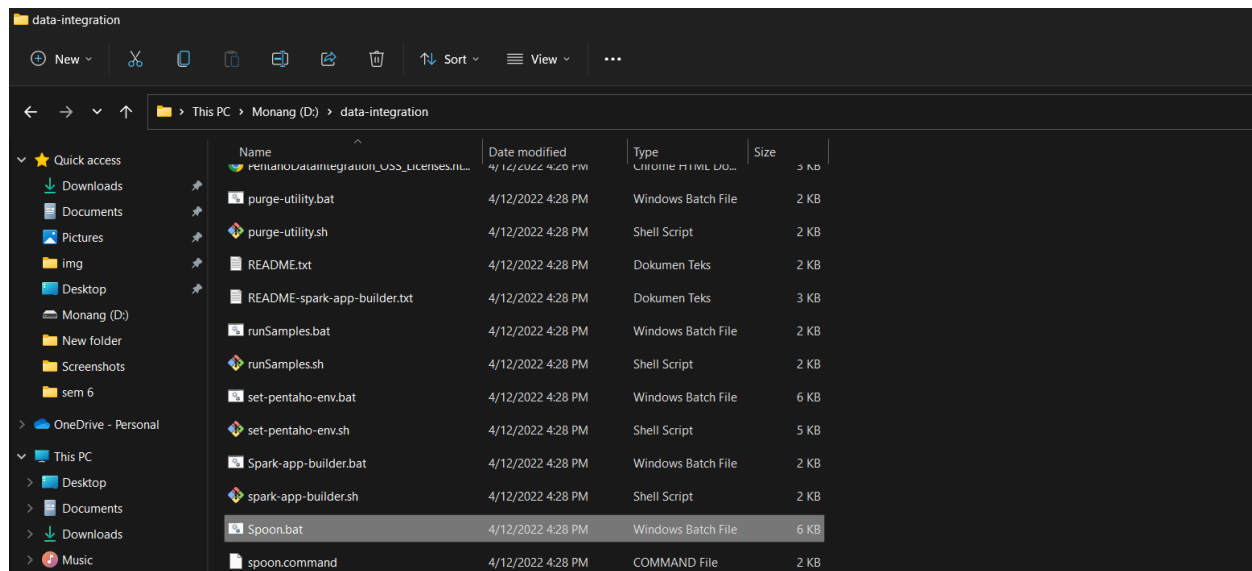
3. Masukkan data diri Anda dan tekan tombol complete registration.

The screenshot shows the 'User Registration' page on the Hitachi Vantara website. The page has a dark header with the Hitachi logo and 'Hitachi Vantara' text. Below the header, the title 'User Registration' is followed by the instruction 'Please complete all required fields'. The form contains several fields: 'First Name\*', 'Last Name\*', 'Company Name\*', 'Job Title\*' (a dropdown menu), 'Company Country or Region\*' (a dropdown menu), 'Company Zip/Postal Code\*', 'Preferred Phone Number\*' (with a '+1' country code dropdown), 'Ext.' (extension), 'Time Zone\*' (a dropdown menu), 'Business Email\*', and 'Confirm Business Email\*'. At the bottom of the form, there is a note: 'Your email address will be your username when you login. Please register with a company email address, not a personal email address, to ensure proper access within the'.

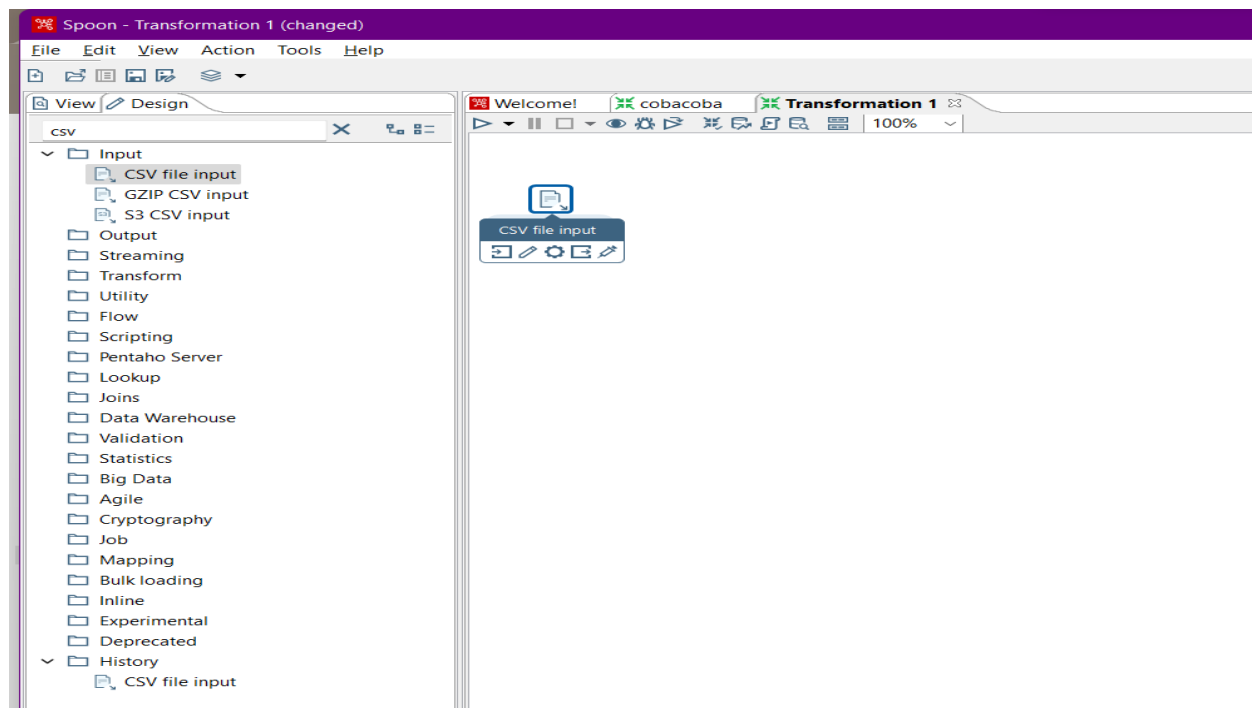
4. Masuk ke akun Pentaho dengan email dan password, dimana password akan diberikan melalui email anda.

The screenshot shows the 'Masuk' (Login) page on the Hitachi Vantara website. The page has a dark header with the Hitachi logo and 'Hitachi Vantara' text. Below the header, the title 'Masuk' is followed by the login form. The form contains two input fields: 'Nama pengguna' (Username) and 'Kata sandi' (Password). Below the password field is a checkbox labeled 'Ingat saya' (Remember me). A red 'Masuk' button is located below the form. Below the button, there are links for 'Hitachi Vantara Internal Users: Forgot Password? Reset Password Register for Password Self-Service' and 'For Partners, Customers and Guests: Forgot Password? Register Here'.

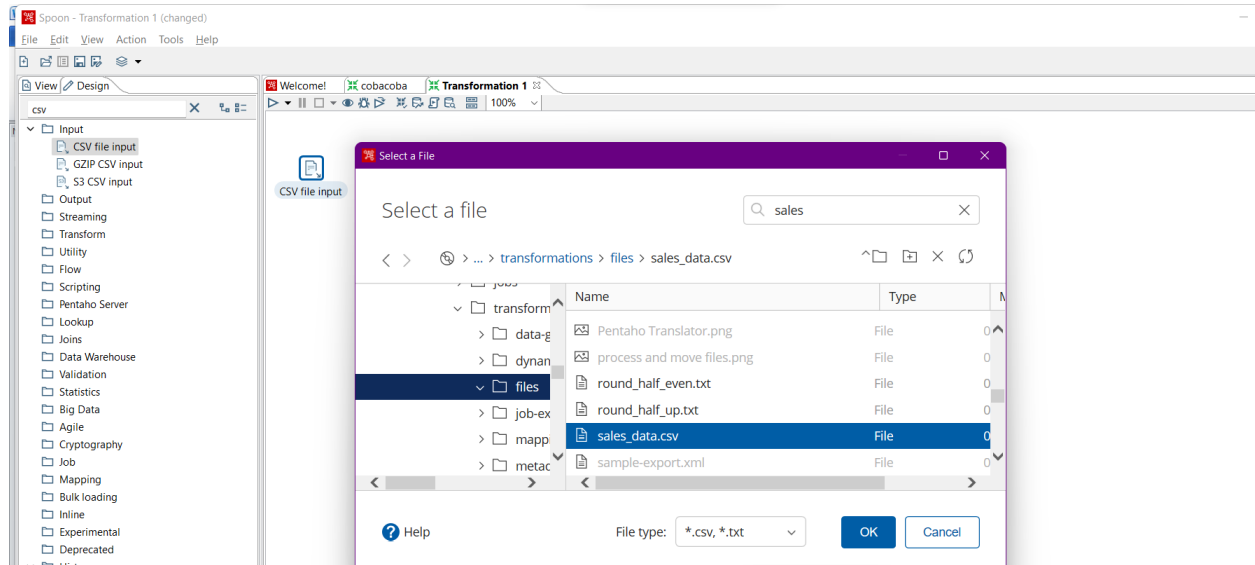
5. Launch aplikasi dengan memilih spoon.bat.



6. Pada kolom search ketik csv kemudian pilih CSV file input.



- Double click pada CSV file input kemudian tekan browse pada baris filename dan pilih file csv yang akan digunakan.

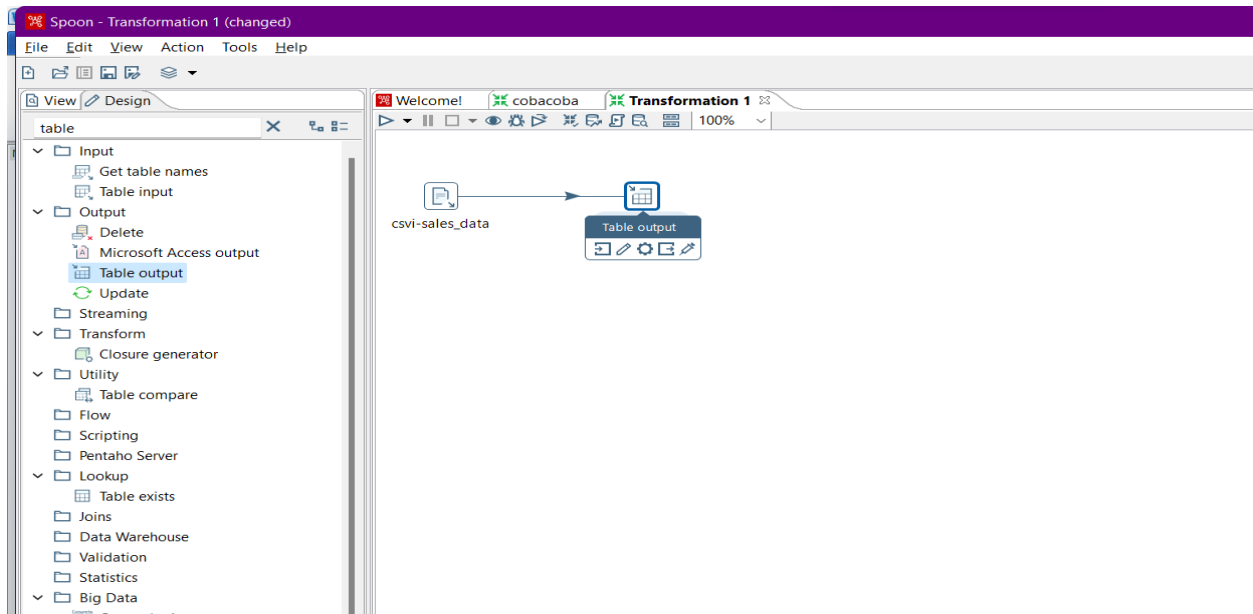


- Kemudian tekan tombol preview untuk mengecek apakah filenya sudah bisa digunakan

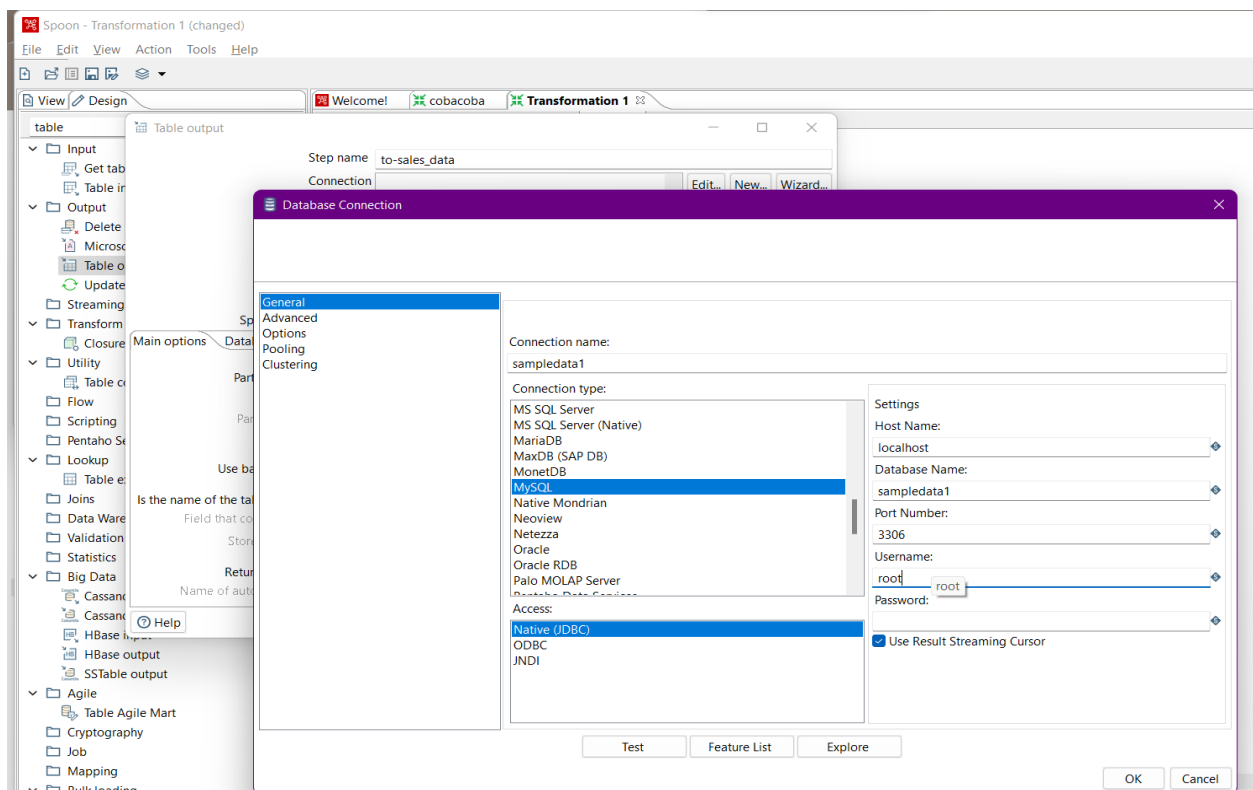
The screenshot shows the 'Examine preview data' dialog box in Pentaho Spoon. It displays a preview of the data from the 'sales\_data.csv' file. The data is presented in a table with the following columns: ORDERNUMBER, QUANTITYORDERED, PRICEEACH, ORDERLINENUMBER, SALES, ORDERDATE, STATUS, QTR\_ID, MONTH\_ID, YEAR\_ID, PRODUCTLINE, MSRP, PRODUCTCODE, CUSTOMERNAME, and PHONE. The table shows 1000 rows of data, with the first few rows visible. The 'Close' and 'Show Log' buttons are at the bottom of the dialog.

#	ORDERNUMBER	QUANTITYORDERED	PRICEEACH	ORDERLINENUMBER	SALES	ORDERDATE	STATUS	QTR_ID	MONTH_ID	YEAR_ID	PRODUCTLINE	MSRP	PRODUCTCODE	CUSTOMERNAME	PHONE
1	10107	30	95.7	2	2871	2/24/2003 0:00	Shipped	1	2	2003	Motorcycles	95	S10_1678	Land of Toys Inc.	2125557818
2	10121	34	81.3	5	2765.9	5/7/2003 0:00	Shipped	2	5	2003	Motorcycles	95	S10_1678	Reims Collectables	26.47.1555
3	10134	41	94.7	2	3884.3	7/1/2003 0:00	Shipped	3	7	2003	Motorcycles	95	S10_1678	Lyon Souveniers	+33 1 46 62 75
4	10145	45	83.3	6	3746.7	8/25/2003 0:00	Shipped	3	8	2003	Motorcycles	95	S10_1678	Toys4GrownUps.com	6265557263
5	10159	49	100	14	5205.3	10/10/2003 0:00	Shipped	4	10	2003	Motorcycles	95	S10_1678	Corporate Gift Ideas Co.	6505551386
6	10168	36	96.7	1	3479.8	10/28/2003 0:00	Shipped	4	10	2003	Motorcycles	95	S10_1678	Technics Stores Inc.	6505556809
7	10180	29	86.1	9	2497.8	11/11/2003 0:00	Shipped	4	11	2003	Motorcycles	95	S10_1678	Daedalus Designs Imports	20.16.1555
8	10188	48	100	1	5512.3	11/18/2003 0:00	Shipped	4	11	2003	Motorcycles	95	S10_1678	Heriku Gifts	+47 2267 3215
9	10201	22	98.6	2	2168.5	12/1/2003 0:00	Shipped	4	12	2003	Motorcycles	95	S10_1678	Mini Wheels Co.	6505555787
10	10211	41	100	14	4708.4	1/15/2004 0:00	Shipped	1	1	2004	Motorcycles	95	S10_1678	Auto Canal + Petit	(1) 47.55.6555
11	10223	37	100	1	3965.7	2/20/2004 0:00	Shipped	1	2	2004	Motorcycles	95	S10_1678	Australian Collectors, Co.	03 9520 4555
12	10237	23	100	7	2333.1	4/5/2004 0:00	Shipped	2	4	2004	Motorcycles	95	S10_1678	Vitachrome Inc.	2125551500
13	10251	28	100	2	3188.6	5/18/2004 0:00	Shipped	2	5	2004	Motorcycles	95	S10_1678	Tekni Collectables Inc.	2015559350
14	10263	34	100	2	3676.8	6/28/2004 0:00	Shipped	2	6	2004	Motorcycles	95	S10_1678	Gift Depot Inc.	2035552570
15	10275	45	92.8	1	4177.4	7/23/2004 0:00	Shipped	3	7	2004	Motorcycles	95	S10_1678	La Rochelle Gifts	40.67.8555
16	10285	36	100	6	4099.7	8/27/2004 0:00	Shipped	3	8	2004	Motorcycles	95	S10_1678	Marta's Replicas Co.	6175558555
17	10299	23	100	9	2597.4	9/30/2004 0:00	Shipped	3	9	2004	Motorcycles	95	S10_1678	Toys of Finland, Co.	90-224 8555
18	10309	41	100	5	4394.4	10/15/2004 0:00	Shipped	4	10	2004	Motorcycles	95	S10_1678	Baane Mini Imports	07-98 9555
19	10318	46	94.7	1	4358	11/2/2004 0:00	Shipped	4	11	2004	Motorcycles	95	S10_1678	Diecast Classics Inc.	2155551555
20	10329	42	100	1	4396.1	11/15/2004 0:00	Shipped	4	11	2004	Motorcycles	95	S10_1678	Land of Toys Inc.	2125557818
21	10341	41	100	9	7737.9	11/24/2004 0:00	Shipped	4	11	2004	Motorcycles	95	S10_1678	Salzburg Collectables	6562-9555
22	10361	20	72.5	13	1451	12/17/2004 0:00	Shipped	4	12	2004	Motorcycles	95	S10_1678	Souveniers And Things Co.	+61 2 9495 8555
23	10375	21	34.9	12	733.1	2/3/2005 0:00	Shipped	1	2	2005	Motorcycles	95	S10_1678	La Rochelle Gifts	40.67.8555
24	10388	42	76.4	4	3207.1	3/3/2005 0:00	Shipped	1	3	2005	Motorcycles	95	S10_1678	FunGiftIdeas.com	5085552555

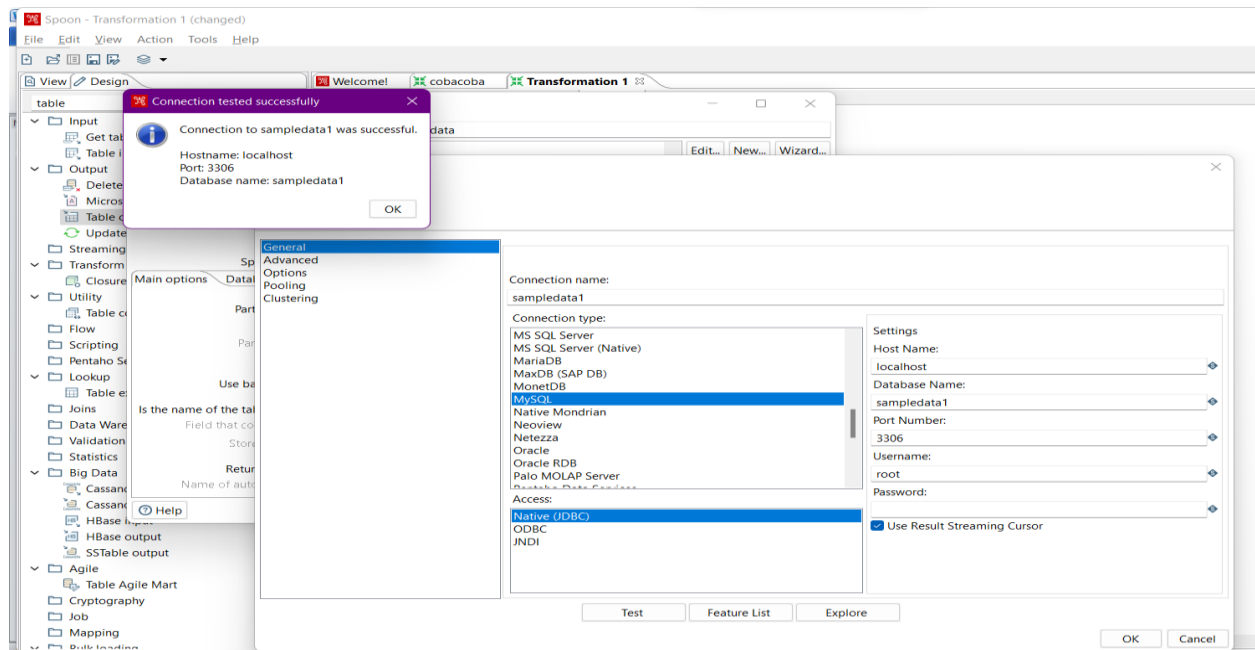
9. Kemudian pada kolom search cari toouble output kemudian double click. Kemudian ubah nama table menjadi to-sales\_data.



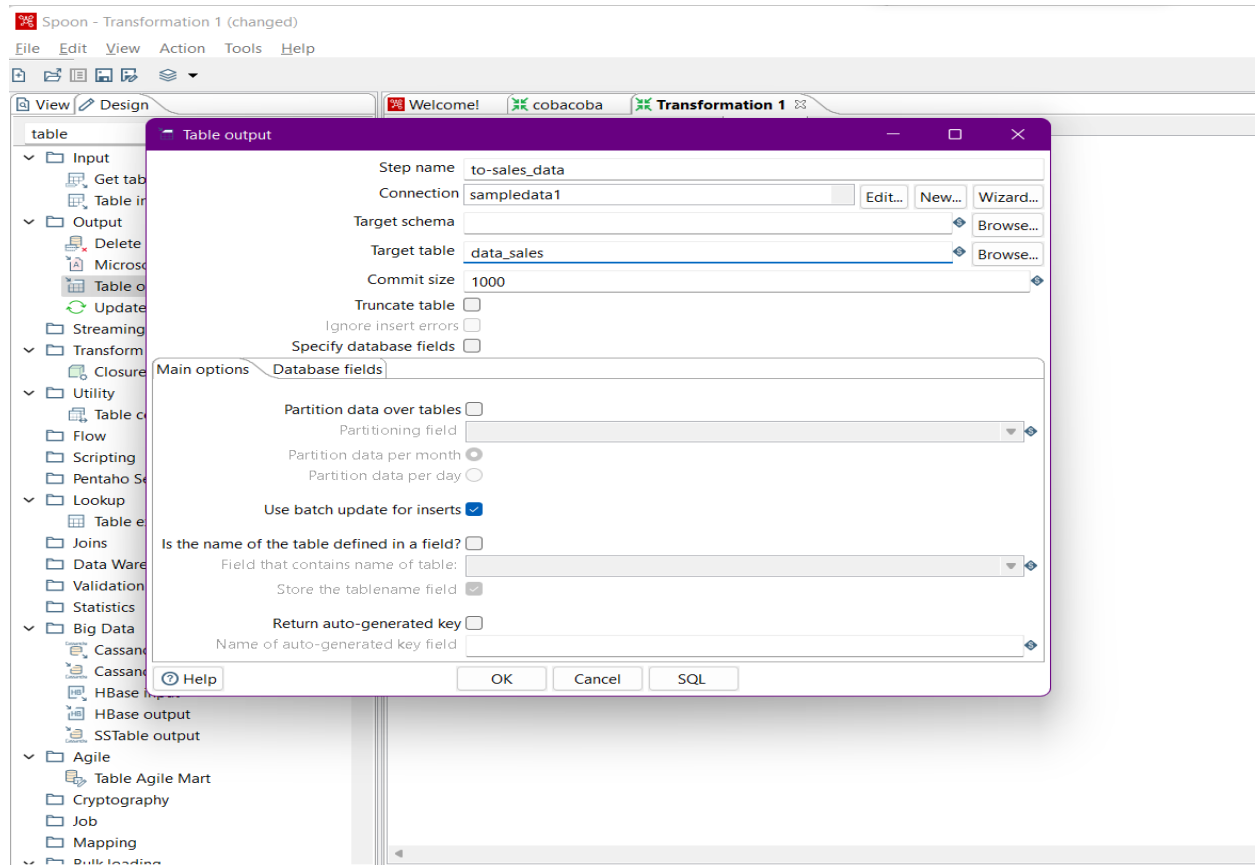
10. Kemudian pada baris connection pilih new. Lalu isi semua kolom baris dan isinya seperti gambar dibawah ini.



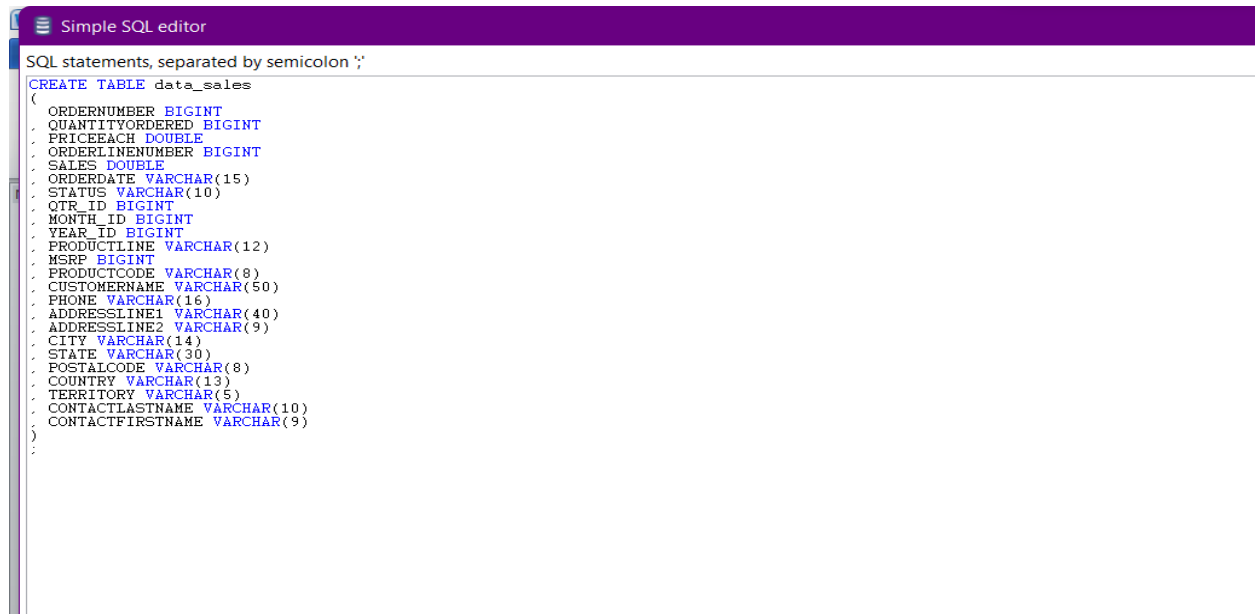
11. Ketika tombol test ditekan dan berhasil maka akan menampilkan alert.



12. Kemudian pada baris target table masukkan nama tabel yang akan menjadi target output data.



13. Tekan tombol SQL kemudian lakukan pembaruan pada kolom STATE dan CUSTOMERNAME dengan length masing masing 30 dan 50.

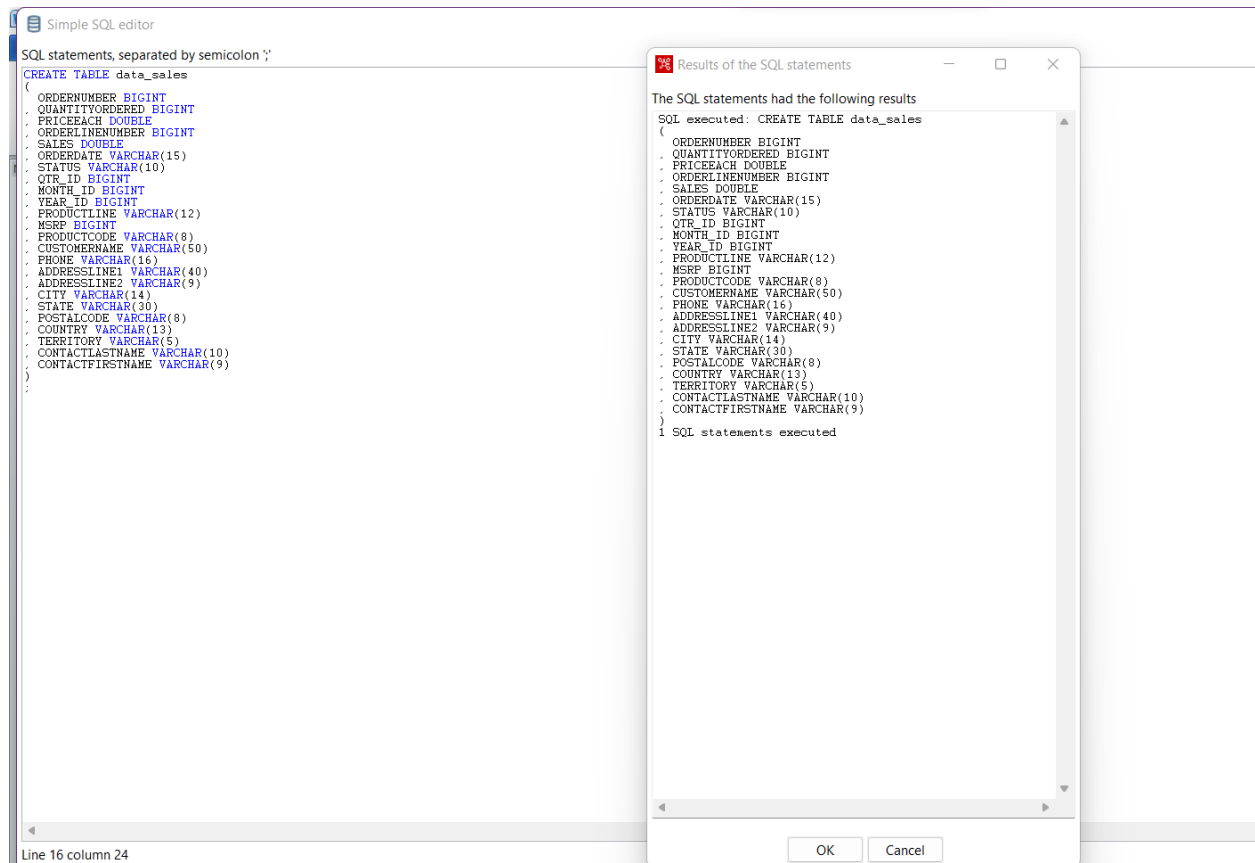


Simple SQL editor

SQL statements, separated by semicolon ;

```
CREATE TABLE data_sales
(
  ORDERNUMBER BIGINT
  , QUANTITYORDERED BIGINT
  , PRICEEACH DOUBLE
  , ORDERLINENUMBER BIGINT
  , SALES DOUBLE
  , ORDERDATE VARCHAR(15)
  , STATUS VARCHAR(10)
  , QTR_ID BIGINT
  , MONTH_ID BIGINT
  , YEAR_ID BIGINT
  , PRODUCTLINE VARCHAR(12)
  , MSRP BIGINT
  , PRODUCTCODE VARCHAR(8)
  , CUSTOMERNAME VARCHAR(50)
  , PHONE VARCHAR(16)
  , ADDRESSLINE1 VARCHAR(40)
  , ADDRESSLINE2 VARCHAR(9)
  , CITY VARCHAR(14)
  , STATE VARCHAR(30)
  , POSTALCODE VARCHAR(8)
  , COUNTRY VARCHAR(13)
  , TERRITORY VARCHAR(5)
  , CONTACTLASTNAME VARCHAR(10)
  , CONTACTFIRSTNAME VARCHAR(9)
)
```

14. Kemudian tekan tombol execute dan jika berhasil akan seperti gambar di bawah ini.



Simple SQL editor

SQL statements, separated by semicolon ;

```
CREATE TABLE data_sales
(
  ORDERNUMBER BIGINT
  , QUANTITYORDERED BIGINT
  , PRICEEACH DOUBLE
  , ORDERLINENUMBER BIGINT
  , SALES DOUBLE
  , ORDERDATE VARCHAR(15)
  , STATUS VARCHAR(10)
  , QTR_ID BIGINT
  , MONTH_ID BIGINT
  , YEAR_ID BIGINT
  , PRODUCTLINE VARCHAR(12)
  , MSRP BIGINT
  , PRODUCTCODE VARCHAR(8)
  , CUSTOMERNAME VARCHAR(50)
  , PHONE VARCHAR(16)
  , ADDRESSLINE1 VARCHAR(40)
  , ADDRESSLINE2 VARCHAR(9)
  , CITY VARCHAR(14)
  , STATE VARCHAR(30)
  , POSTALCODE VARCHAR(8)
  , COUNTRY VARCHAR(13)
  , TERRITORY VARCHAR(5)
  , CONTACTLASTNAME VARCHAR(10)
  , CONTACTFIRSTNAME VARCHAR(9)
)
```

Line 16 column 24

Results of the SQL statements

The SQL statements had the following results

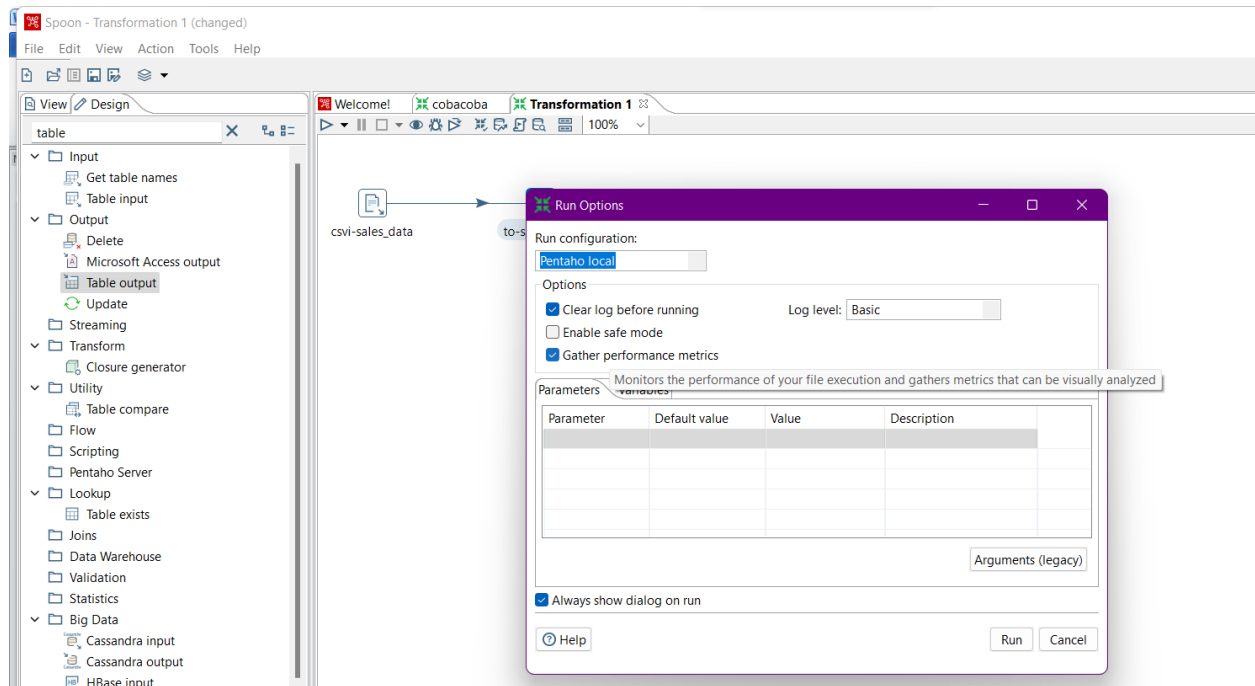
SQL executed: CREATE TABLE data\_sales

```
(
  ORDERNUMBER BIGINT
  , QUANTITYORDERED BIGINT
  , PRICEEACH DOUBLE
  , ORDERLINENUMBER BIGINT
  , SALES DOUBLE
  , ORDERDATE VARCHAR(15)
  , STATUS VARCHAR(10)
  , QTR_ID BIGINT
  , MONTH_ID BIGINT
  , YEAR_ID BIGINT
  , PRODUCTLINE VARCHAR(12)
  , MSRP BIGINT
  , PRODUCTCODE VARCHAR(8)
  , CUSTOMERNAME VARCHAR(50)
  , PHONE VARCHAR(16)
  , ADDRESSLINE1 VARCHAR(40)
  , ADDRESSLINE2 VARCHAR(9)
  , CITY VARCHAR(14)
  , STATE VARCHAR(30)
  , POSTALCODE VARCHAR(8)
  , COUNTRY VARCHAR(13)
  , TERRITORY VARCHAR(5)
  , CONTACTLASTNAME VARCHAR(10)
  , CONTACTFIRSTNAME VARCHAR(9)
)
```

1 SQL statements executed

OK Cancel

## 15. Kemudian jalankan program.



## 16. Tampilan akhir jika program berhasil dijalankan.

