

JOBSHEET 1

DATA WAREHOUSE

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TUGAS 1

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Trim type
1	Customer	String		10		\$.	,	none
2	Product	String		9		\$.	,	none
3	Region	String		3		\$.	,	none
4	Date	Date	MM/dd/yyyy			\$.	,	none
5	Item unit price	Number	##	15		\$.	,	none
6	No.Items	Integer	#	15		\$.	,	none
7	Total Sale	Number	##	15		\$.	,	none

Customer	Product	Region	Date	Item unit price	No.Items	Total Sale
Customer 1	Yaris AT	MLG	3/13/2019	340.95	6	2045.7
Customer 1	Etios AT	SBY	4/16/2019	799.95	1	799.95
Customer 3	Avanza AT	MLG	6/18/2019	168.95	7	1182.65
Customer 3		MLG	7/24/2019	168.95	2	337.9
Customer 1	Avanza AT	SBY	8/21/2019	168.95	9	1520.55
Customer 2	Etios AT	KDR	9/7/2019	799.95	7	5599.65
Customer 3	Etios AT	MLG	9/7/2019	799.95	8	6399.6
Customer 2	Avanza AT			168.95	15	2534.25
Customer 1	Avanza AT	SBY	9/14/2019	168.95	15	2534.25
Customer 1	Etios AT	SBY	9/25/2019	799.95	2	1599.9
Customer 1	Avanza AT	SBY	1/21/2020	168.95	14	2365.3
Customer 1	Yaris AT	MLG	2/1/2020	340.95	2	681.9
Customer 1				340.95	7	2386.65
Customer 1	Etios AT	SBY	5/30/2020	799.95	9	7199.55
Customer 3	Avanza AT	MLG	6/7/2020	168.95	10	1689.5
Customer 3	Yaris AT	MLG	6/9/2020	340.95	4	1363.8
Customer 2		KDR	8/7/2020	799.95	14	11199.3
Customer 2	Avanza AT	KDR	8/8/2020	168.95	12	2027.4
Customer 1	Avanza AT		8/12/2020	168.95	4	675.8

Analisa lah data tersebut!

1. Berapa jumlah kolom pada data tersebut?

7 Kolom (Customer,Product,Region,Date,Item unit price,No.Items,Total Sale)

2. Apa arti atau isi data dari setiap kolom yang ada?

Customer (String) = Nama pelanggan.

Product (String) = Jenis produk yang dibeli.

Region (String) = Wilayah tempat transaksi dilakukan.

Date (Date) = Tanggal transaksi dalam format MM/dd/yyyy.

Item unit price (Number) = Harga satuan produk dalam format angka.

No.Items (Integer) = Jumlah unit yang dibeli dalam format bilangan bulat.

Total Sale (Number) = Total penjualan, hasil dari harga satuan \times jumlah item.

3. Adakah data yang memiliki nilai null / data yang tidak lengkap?

Ada, di bagian kolom Product, Region, dan Date.

4. Adakah data yang memiliki tipe yang berbeda dengan data lainnya pada kolom yang sama?

Tidak ada, semua value sudah sesuai dengan tipe data pada setiap kolom yang ada.

TUGAS 2

<div> <div>Logging</div> <div>Execution History</div> <div>Step Metrics</div> <div>Performance Graph</div> <div>Metrics</div> <div>Preview data</div> </div>							
<div> <div>First rows</div> <div>Last rows</div> <div>Off</div> </div>							
#	Customer	Product	Region	Date	Item unit price	No.Items	Total Sale
1	Customer 1	Yaris AT	MLG	Wed Mar 13 00:00:00 ICT 2019	340.95	6	2045.7
2	Customer 1	Etios AT	SBY	Tue Apr 16 00:00:00 ICT 2019	799.95	1	799.95
3	Customer 3	Avanza AT	MLG	Tue Jun 18 00:00:00 ICT 2019	168.95	7	1182.65
4	Customer 3	<null>	MLG	Wed Jul 24 00:00:00 ICT 2019	168.95	2	337.9
5	Customer 1	Avanza AT	SBY	Wed Aug 21 00:00:00 ICT 2019	168.95	9	1520.55
6	Customer 2	Etios AT	KDR	Sat Sep 07 00:00:00 ICT 2019	799.95	7	5599.65
7	Customer 3	Etios AT	MLG	Sat Sep 07 00:00:00 ICT 2019	799.95	8	6399.6
8	Customer 2	Avanza AT	<null>	<null>	168.95	15	2534.25
9	Customer 1	Avanza AT	SBY	Sat Sep 14 00:00:00 ICT 2019	168.95	15	2534.25
1..	Customer 1	Etios AT	SBY	Wed Sep 25 00:00:00 ICT 2019	799.95	2	1599.9
1..	Customer 1	Avanza AT	SBY	Tue Jan 21 00:00:00 ICT 2020	168.95	14	2365.3
1..	Customer 1	Yaris AT	MLG	Sat Feb 01 00:00:00 ICT 2020	340.95	2	681.9
1..	Customer 1	<null>	<null>	<null>	340.95	7	2386.65
1..	Customer 1	Etios AT	SBY	Sat May 30 00:00:00 ICT 2020	799.95	9	7199.55
1..	Customer 3	Avanza AT	MLG	Sun Jun 07 00:00:00 ICT 2020	168.95	10	1689.5
1..	Customer 3	Yaris AT	MLG	Tue Jun 09 00:00:00 ICT 2020	340.95	4	1363.8
1..	Customer 2	<null>	KDR	Fri Aug 07 00:00:00 ICT 2020	799.95	14	11199.3
1..	Customer 2	Avanza AT	KDR	Sat Aug 08 00:00:00 ICT 2020	168.95	12	2027.4
1..	Customer 1	Avanza AT	<null>	Wed Aug 12 00:00:00 ICT 2020	168.95	4	675.8

- ## Execution Results
- Logging

Execution History

Step Metrics

Performance Graph

Metrics

Preview data
-
- 2025/02/26 10:51:49 - Spoon - Save file as...

2025/02/26 10:51:49 - Spoon - Transformation opened.

2025/02/26 10:51:49 - Spoon - Launching transformation [Tugas2DW]...

2025/02/26 10:51:49 - Spoon - Started the transformation execution.

2025/02/26 10:51:49 - Tugas2DW - Dispatching started for transformation [Tugas2DW]

2025/02/26 10:51:49 - CSV file input.0 - Header row skipped in file 'E:\DOWNLOAD\CarDistributionSales.csv'

2025/02/26 10:51:49 - CSV file input.0 - Finished processing (I=20, O=0, R=0, W=19, U=0, E=0)

2025/02/26 10:51:49 - Spoon - The transformation has finished!!

- c. Perhatikan gambar dibawah ini! Apa yang dimaksud dengan I,O,R,W,U,E ?

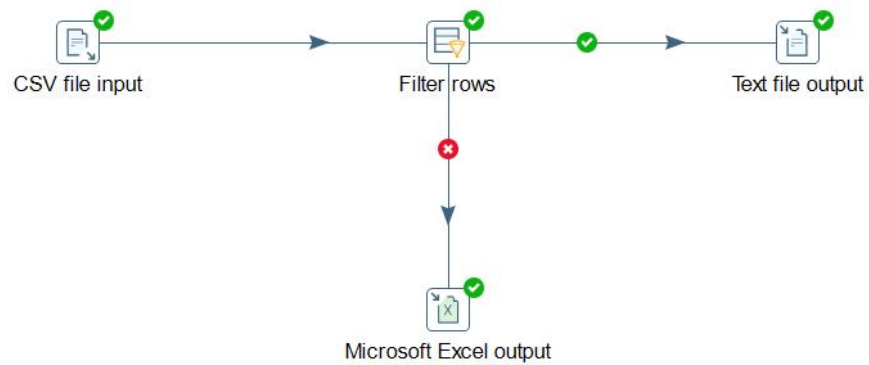
2024/02/17 06:51:48 - Input Data CSV.0 - Finished processing (I=20, O=0, R=0, W=19, U=0, E=0)

$E=0 \rightarrow$ Tidak ada error

- d. Berapa waktu yang dibutuhkan untuk melakukan eksekusi Extract data ini? Bandingkan dengan 3 teman yang lain, identifikasi pula spesifikasi perangkat yang digunakan (Processor, RAM, Storage, VGA, CPU). Bandingkan dalam bentuk tabel.

Nama	Proci	RAM (GB)	Storage (GB)	VGA	CPU	Time(s)
Filla	AMD	6	1000	Radeon Vega 8 Mobile GFX	AMD Ryzen 5 3500u Processor with AMD Radeon Vega 8 Graphics	0,4
Devin	Intel	4	128	Intel HD Graphics 4000	Intel Core i5 3437u	1
Paudra	Intel	8	500	Intel(R) UHD Graphics	11th Gen Intel(R) Core(TM) i5-11260H @ 2.60GHz	0,0
Ircam	AMD	6	1000	Radeon Vega 8 Mobile GFX	AMD Ryzen 5 3500u Processor with AMD Radeon Vega 8 Graphics	0.6

TUGAS 3



Execution Results

Logging Execution History Step Metrics Performance Graph Metrics Preview data

2025/02/26 12:07:27 - Spoon - Transformation opened.
 2025/02/26 12:07:27 - Spoon - Launching transformation [Tugas2DW]...
 2025/02/26 12:07:27 - Spoon - Started the transformation execution.
 2025/02/26 12:07:28 - Tugas2DW - Dispatching started for transformation [Tugas2DW]
 2025/02/26 12:07:28 - CSV file input.0 - Header row skipped in file 'E:\DOWNLOAD\CarDistributionSales.csv'
 2025/02/26 12:07:28 - CSV file input.0 - Finished processing (I=20, O=0, R=0, W=19, U=0, E=0)
 2025/02/26 12:07:28 - Filter rows.0 - Finished processing (I=0, O=0, R=19, W=19, U=0, E=0)
 2025/02/26 12:07:28 - Text file output.0 - Finished processing (I=0, O=15, R=14, W=14, U=0, E=0)
 2025/02/26 12:07:29 - Microsoft Excel output.0 - Finished processing (I=0, O=5, R=5, W=5, U=0, E=0)
 2025/02/26 12:07:29 - Spoon - The transformation has finished!!

Customer;Product;Region;Date;Item unit price;No.Items;Total Sale
Customer 1;Yaris AT ;MLG;3/13/2019;340.9;6;2045.7
Customer 1;Etios AT ;SBY;4/16/2019;800;1;800
Customer 3;Avanza AT;MLG;6/18/2019;168.9;7;1182.7
Customer 1;Avanza AT;SBY;8/21/2019;168.9;9;1520.5
Customer 2;Etios AT ;KDR;9/7/2019;800;7;5599.6
Customer 3;Etios AT ;MLG;9/7/2019;800;8;6399.6
Customer 1;Avanza AT;SBY;9/14/2019;168.9;15;2534.2
Customer 1;Etios AT ;SBY;9/25/2019;800;2;1599.9
Customer 1;Avanza AT;SBY;1/21/2020;168.9;14;2365.3
Customer 1;Yaris AT ;MLG;2/1/2020;340.9;2;681.9
Customer 1;Etios AT ;SBY;5/30/2020;800;9;7199.6
Customer 3;Avanza AT;MLG;6/7/2020;168.9;10;1689.5
Customer 3;Yaris AT ;MLG;6/9/2020;340.9;4;1363.8
Customer 2;Avanza AT;KDR;8/8/2020;168.9;12;2027.4

Customer	Product	Region	Date	Item unit price	No.Items	Total Sale
Customer		MLG	7/24/2019 0:00	0168.95	2.00	00337.90
Customer	Avanza AT			0168.95	15.00	02534.25
Customer				0340.95	7.00	02386.65
Customer		KDR	8/7/2020 0:00	0799.95	14.00	11199.30
Customer	Avanza AT		8/12/2020 0:00	0168.95	4.00	00675.80

1. Apa perbedaan isi data output dilihat dari isi file csv dan file excel?
File CSV formatnya teks biasa yang tiap kolom nya dipisahkan oleh “;”, sedangkan excel adalah file yang berformat kolom dan baris berupa tabel.
2. Jelaskan apa yang terjadi pada proses Filter rows!
Sesuai dengan namanya, filter rows adalah proses pemfilter an data pada setiap baris yang dilakukan berdasarkan kondisi tertentu.
3. Berapa waktu yang dibutuhkan untuk melakukan eksekusi Extract Transfer Load data ini? Bandingkan dengan 3 teman yang lain, identifikasi pula spesifikasi perangkat yang digunakan (Processor, RAM, Storage, VGA, CPU). bandingkan dalam bentuk tabel

Nama	Proci	RAM (GB)	Storage (GB)	VGA	CPU	Time(s)
Filla	AMD	6	1000	Radeon Vega 8 Mobile GFX	AMD Ryzen 5 3500u Processor with AMD Radeon Vega 8 Graphics	0.6
Devin	Intel	4	128	Intel HD Graphics 4000	Intel Core i5 3437u	1
Paudra	Intel	8	500	Intel(R) UHD Graphics	11th Gen Intel(R) Core(TM) i5-11260H @ 2.60GHz	0,0
Ircam	AMD	6	1000	Radeon Vega 8 Mobile GFX	AMD Ryzen 5 3500u Processor with AMD Radeon Vega 8 Graphics	0.5