

LAPORAN TUGAS PENGANTI UAS DAX DWBI

Nama : Fikri Fadhlillah

Nim : 181402117

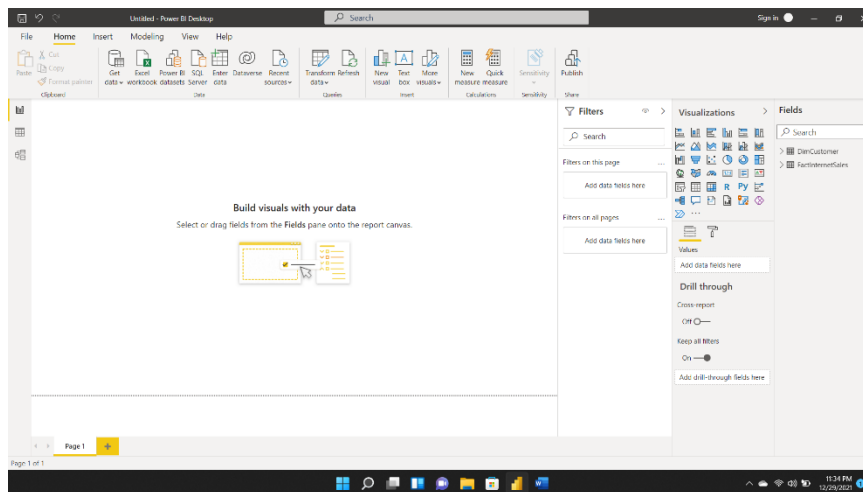
Kom : C

Mata Kuliah : Data Warehouse dan Bisnis Intelligence

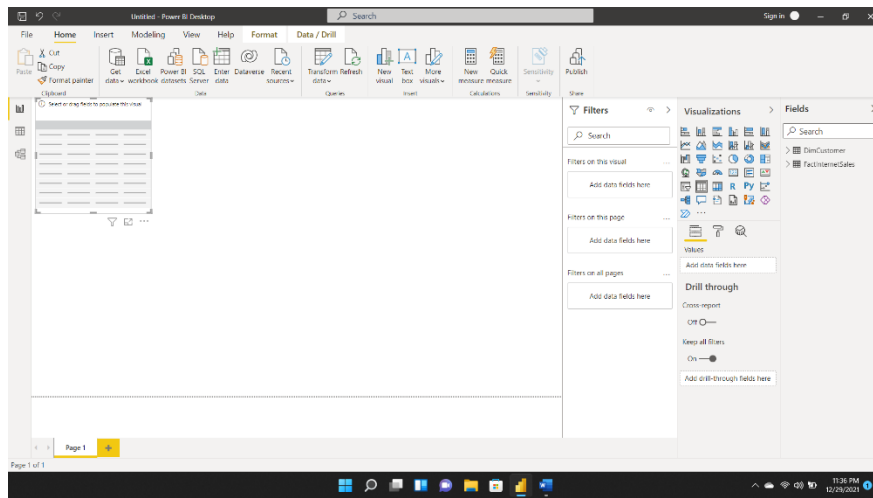
Pertama untuk tugas DAX ini diperlukan data untuk di impor ke Power BI. Seperti yang ada pada tutorial, kemudian saya unduh data AdventureWorksDW yang berformat Excel. Dan saya mendapat data nya dari github berikut linknya saya sertakan dibawah ini.

<https://github.com/PacktPublishing/Microsoft-Power-BI-Quick-Start-Guide/blob/master/Data%20Sources/AdventureWorksDW.XLSX>

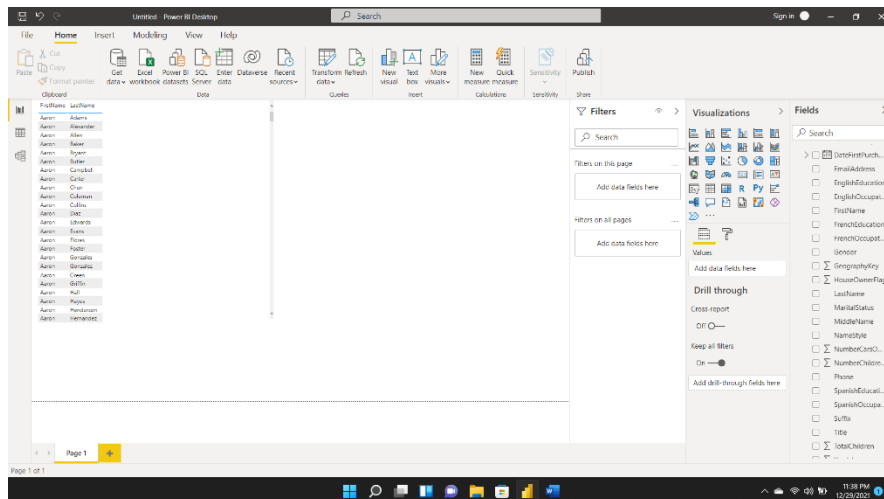
Selanjutnya, saya impor data AdventureWorksDW di PowerBI Desktop



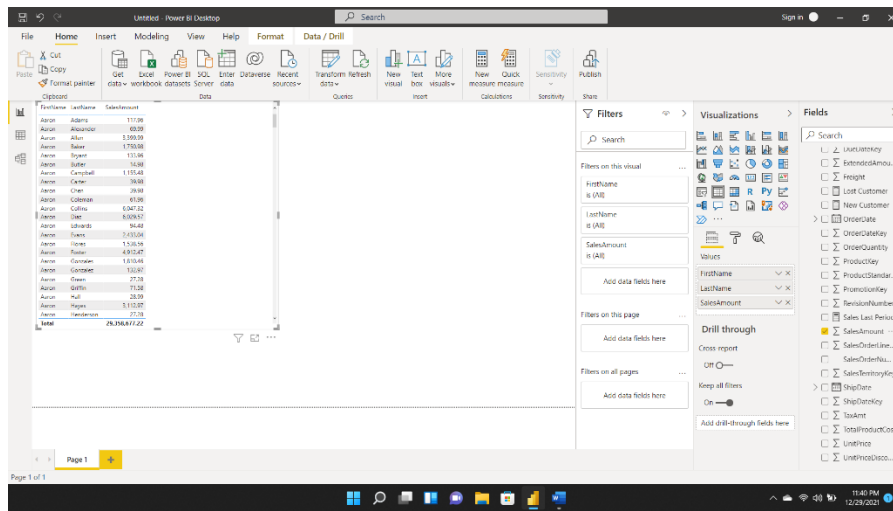
kemudian, saya buat Tabel yang berada di menu Visualization



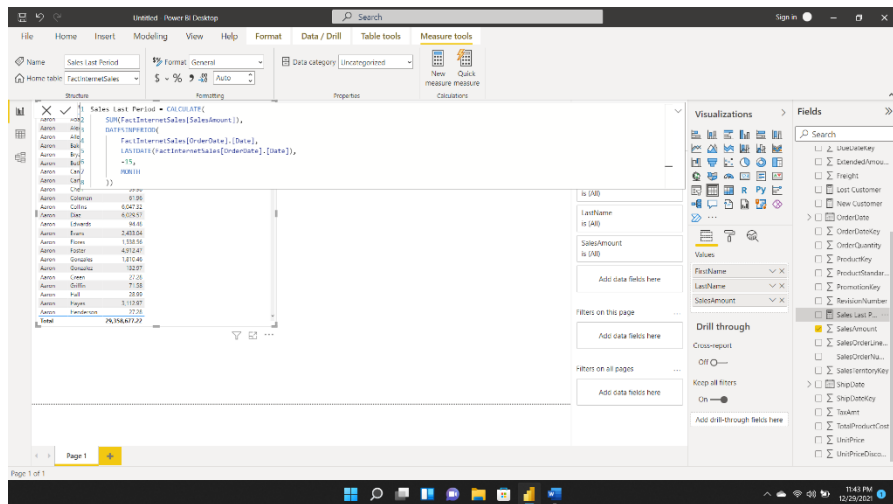
Kemudian setelah sudah ada tabel, saya masukkan First Name dan Last Name yang ada pada model Dim Customer. First Name disini adalah nama awal dari customer dan Last Name adalah nama akhir dari customer



Lalu setelah First Name dan Last Name sudah muncul pada tabel, saya masukkan kembali Sales Amount yang ada pada model FactInternetSales



Lalu selanjutnya, Saya tambahkan New Measure pada FactInternetSales. Caranya klik kanan pada model FactInternetSales, lalu pilih New Measure. Untuk New Measure, kita dapat mengisi query sesuai dengan kebutuhan, disini saya membuat Sales Last Period yang bertujuan untuk mengetahui siapa-siapa saja customer terakhir



```
1 Sales Last Period = CALCULATE(
2     SUM(FactInternetSales[SalesAmount]),
3     DATESINPERIOD(
4         FactInternetSales[OrderDate].[Date],
5         LASTDATE(FactInternetSales[OrderDate].[Date]),
6         -15,
7         MONTH
8     )
)
```

Setelah saya mengisi query untuk Sales Last Period, saya memasukkannya kedalam tabel.

FirstName	LastName	SalesAmount	Sales Last Period
Aaron	Adams	117.04	117.04
Aaron	Alexander	89.99	89.99
Aaron	Allen	1,180.99	1,180.99
Aaron	Baker	1,790.99	1,790.99
Aaron	Bryant	151.99	151.99
Aaron	Burke	14.99	14.99
Aaron	Campbell	1,124.49	1,124.49
Aaron	Carter	28.99	28.99
Aaron	Chen	20.99	20.99
Aaron	Colman	61.99	61.99
Aaron	Collins	6,947.52	2,459.52
Aaron	Diaz	6,929.52	6,929.52
Aaron	Edwards	94.49	94.49
Aaron	Evans	2,453.99	2,453.99
Aaron	Finch	1,538.99	89.49
Aaron	Foster	4,912.47	4,912.47
Aaron	Gonzalez	1,910.49	1,910.49
Aaron	Griffin	162.97	162.97
Aaron	Hart	27.29	27.29
Aaron	Hill	71.59	71.59
Aaron	Hughes	3,119.97	2,519.99
Aaron	Henderson	27.29	27.29
Total		29,318,677.22	13,788,116.20

Sekarang sudah tersedia First Name, Last Name, Sales Amount, dan Sales Last Period yang sudah saya buat dan saya masukkan kedalam tabel. Kemudian saya buat kembali New Measure yang baru untuk mencari customer yang hilang dan membuatnya sebagai Lost Customer.

FirstName	LastName	SalesAmount	Sales Last Period	Lost Customer
Aaron	Adams	117.04	117.04	0
Aaron	Alexander	89.99	89.99	0
Aaron	Allen	1,180.99	1,180.99	0
Aaron	Baker	1,790.99	1,790.99	0
Aaron	Bryant	151.99	151.99	0
Aaron	Burke	14.99	14.99	0
Aaron	Campbell	1,124.49	1,124.49	0
Aaron	Carter	28.99	28.99	0
Aaron	Chen	20.99	20.99	0
Aaron	Colman	61.99	61.99	0
Aaron	Collins	6,947.52	2,459.52	0
Aaron	Diaz	6,929.52	6,929.52	0
Aaron	Edwards	94.49	94.49	0
Aaron	Evans	2,453.99	2,453.99	0
Aaron	Finch	1,538.99	89.49	0
Aaron	Foster	4,912.47	4,912.47	0
Aaron	Gonzalez	1,910.49	1,910.49	0
Aaron	Griffin	162.97	162.97	0
Aaron	Hart	27.29	27.29	0
Aaron	Hill	71.59	71.59	0
Aaron	Hughes	3,119.97	2,519.99	0
Aaron	Henderson	27.29	27.29	0
Total		29,318,677.22	13,788,116.20	0

```
1 Lost Customer = IF([Sales Last Period],0,1)
```

Setelah saya mengisi query untuk Lost Customer, saya memasukkannya juga kedalam tabel.

FileHomeInsertModelingViewHelpFormatData / DrillTable toolsMeasure tools

Name

Home table

Formal

Whole number

Uncategorized

New Quick measure measure calculations

Structure

Formatting

Properties

FirstName	LastName	Sales Last Period	Lost Customer
Aaron	Adams	117.09	0
Aaron	Alexander	89.99	0
Aaron	Allen	1,100.09	1
Aaron	Baker	1,750.09	1,750.09
Aaron	Baker	133.99	133.99
Aaron	Baker	140.99	140.99
Aaron	Campbell	1,155.49	1,155.49
Aaron	Carter	20.99	20.99
Aaron	Chen	36.99	36.99
Aaron	Coleman	91.99	91.99
Aaron	Collins	9,047.22	2,409.03
Aaron	Davis	9,020.01	9,020.01
Aaron	Edwards	94.49	94.49
Aaron	Evans	2,423.04	2,423.04
Aaron	Foster	1,038.56	816.45
Aaron	Foster	8,810.47	8,810.47
Aaron	Gonzalez	1,010.45	1,010.45
Aaron	Gonzalez	1,020.01	1,020.01
Aaron	Gray	27.29	27.29
Aaron	Griffin	71.34	71.34
Aaron	Hall	20.99	20.99
Aaron	Hayes	5,113.07	2,358.08
Aaron	Henderson	27.29	27.29
Total		20,356,477.22	13,786,116.29

Filters

Visualizations

Fields

Search

Filters on this visual

FirstName is (All)

LastName is (All)

Lost Customer is (All)

Sales Last Period is (All)

SalesAmount is (All)

Add data fields here

Filters on this page

Add data fields here

Filters on all pages

Values

FirstName

LastName

Sales Last Period

SalesAmount

Lost Customer

Drill through

Cross-report

Keep all filters

On

Add drill-through fields here

Fields

Lost Customer

Cartier Tracking

RelativistSales

Current Location

Discussions

DiscussionPOLL

DiscussionsAnswers

DueDate

DueDateOnly

ExtendedAmount

Freight

Lost Customer

New Customer

OrderDate

OrderDateKey

OrderQuantity

ProductKey

ProductLine

ProductStandard

PromotionOnly

PromotionNumber

Sales Last Period

SalesAmount

SalesPerPeriod

Page 1 of 1

Page 1

11:40 PM 12/29/2021

Nah pada Lost Customer, terdapat angka 0 dan 1. 0 itu berarti bukan kustomer yang hilang dan 1 itu berarti termasuk customer hilang/lost customer.

Selanjutnya saya membuat New Measure kembali untuk mengetahui siapa-siapa saja Customer saya yang baru dengan nama New Customer.

FileHomeInsertModelingViewHelpTable toolsMeasure tools

NameNew Customer

Home tableFactInternetSales

FormatWhole number

Data categoryUncategorized

New Quick measure measure calculations

Structure

Properties

1

New Customer - 10(Sales Last Period)-SUM(FactInternetSales[SalesAmount]),1,0

	117.09	117.09	0
Aaron Alexander	89.99	89.99	0
Aaron Allen	1,100.09		1
Aaron Baker	1,750.09	1,750.09	0
Aaron Bryant	133.99	133.99	0
Aaron Butler	140.99	140.99	0
Aaron Campbell	1,155.49	1,155.49	0
Aaron Carter	20.99	20.99	0
Aaron Chen	36.99	36.99	0
Aaron Coleman	91.99	91.99	0
Aaron Collins	9,047.22	2,409.03	0
Aaron Davis	9,020.01		1
Aaron Edwards	94.49	94.49	0
Aaron Evans	2,423.04	2,423.04	0
Aaron Flores	1,038.56	816.45	0
Aaron Foster	8,810.47	8,810.47	0
Aaron Gonzalez	1,010.45	1,010.45	0
Aaron Gonzalez	1,020.01	1,020.01	0
Aaron Gray	27.29	27.29	0
Aaron Griffin	71.34	71.34	0
Aaron Hall	20.99	20.99	0
Aaron Hayes	5,113.07	2,358.08	0
Aaron Henderson	27.29	27.29	0
Total	20,356,477.22	13,786,116.29	0

Visualizations

Search

FactInternetSales

DimCustomer

CustomerKey

ProductKey

ProductID

ProductLine

ProductModel

ProductSubcategory

ProductType

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

ProductTypeKey

```
1 New Customer = IF([Sales Last Period]=SUM(FactInternetSales[SalesAmount]),1,0)
```

New Customer disini berguna untuk mencari customer-customer yang baru.

Pada tabel New Customer, semua terisi ada 0 dan 1 yang artinya ada beberapa customer yang baru dan adapula customer yang lama.

The screenshot shows the Microsoft Power BI Desktop interface. The main area displays a table with customer data. The right-hand pane shows the 'Fields' section with a list of available data fields.

Firstname	Lastname	SalesAmount	Sales Last Period	Lost Customer	New Customer
Aaron	Adams	117.96	117.96	0	1
Aaron	Alexander	69.99	69.99	0	1
Aaron	Allen	3,399.99		1	0
Aaron	Baker	1,750.98	1,750.98	0	1
Aaron	Bryant	133.96	133.96	0	1
Aaron	Butler	14.98	14.98	0	1
Aaron	Campbell	1,155.48	1,155.48	0	1
Aaron	Carter	39.98	39.98	0	1
Aaron	Chen	39.98	39.98	0	1
Aaron	Coleman	61.96	61.96	0	1
Aaron	Collins	6,047.32	2,469.05	0	0
Aaron	Diaz	6,029.57		1	0
Aaron	Edwards	94.48	94.48	0	1
Aaron	Evans	2,433.04	2,433.04	0	1
Aaron	Flores	1,538.56	839.46	0	0
Aaron	Foster	4,912.47	4,912.47	0	1
Aaron	Gonzales	1,810.46	1,810.46	0	1
Aaron	Gonzalez	132.97	132.97	0	1
Aaron	Green	27.28	27.28	0	1
Aaron	Griffin	71.58	71.58	0	1
Aaron	Hall	28.99	28.99	0	1
Aaron	Hayes	3,112.97	2,329.98	0	0
Aaron	Henderson	27.28	27.28	0	1
Total		29,358,677.22	13,780,118.20	0	0

The 'Fields' pane on the right lists the following fields:

- DimCustomer
- FactInternetSales
 - CarrierTracking...
 - CurrencyKey
 - CustomerKey
 - CustomerPON...
 - DiscountAmount
- Values
 - DueDate
 - DueDateKey
 - ExtendedAmou...
 - Freight
 - Lost Customer
 - New Customer
 - OrderDate
 - OrderDateKey
 - OrderQuantity
 - ProductKey
 - ProductStandar...
 - PromotionKey
 - RevisionNumber
 - Sales Last Period
 - SalesAmount
 - SalesOrderKey

Demikian saya buat laporan tugas pengganti dari uas dwbi saya, saya mohon maaf bila ada penjelasan yang kurang/kata kata dari video yang saya buat. Terima kasih untuk bapak yang telah menjadi dosen pengampu di mata kuliah ini.