

Nama : Titis Ulfa Mustikawati

NIM : L200170057

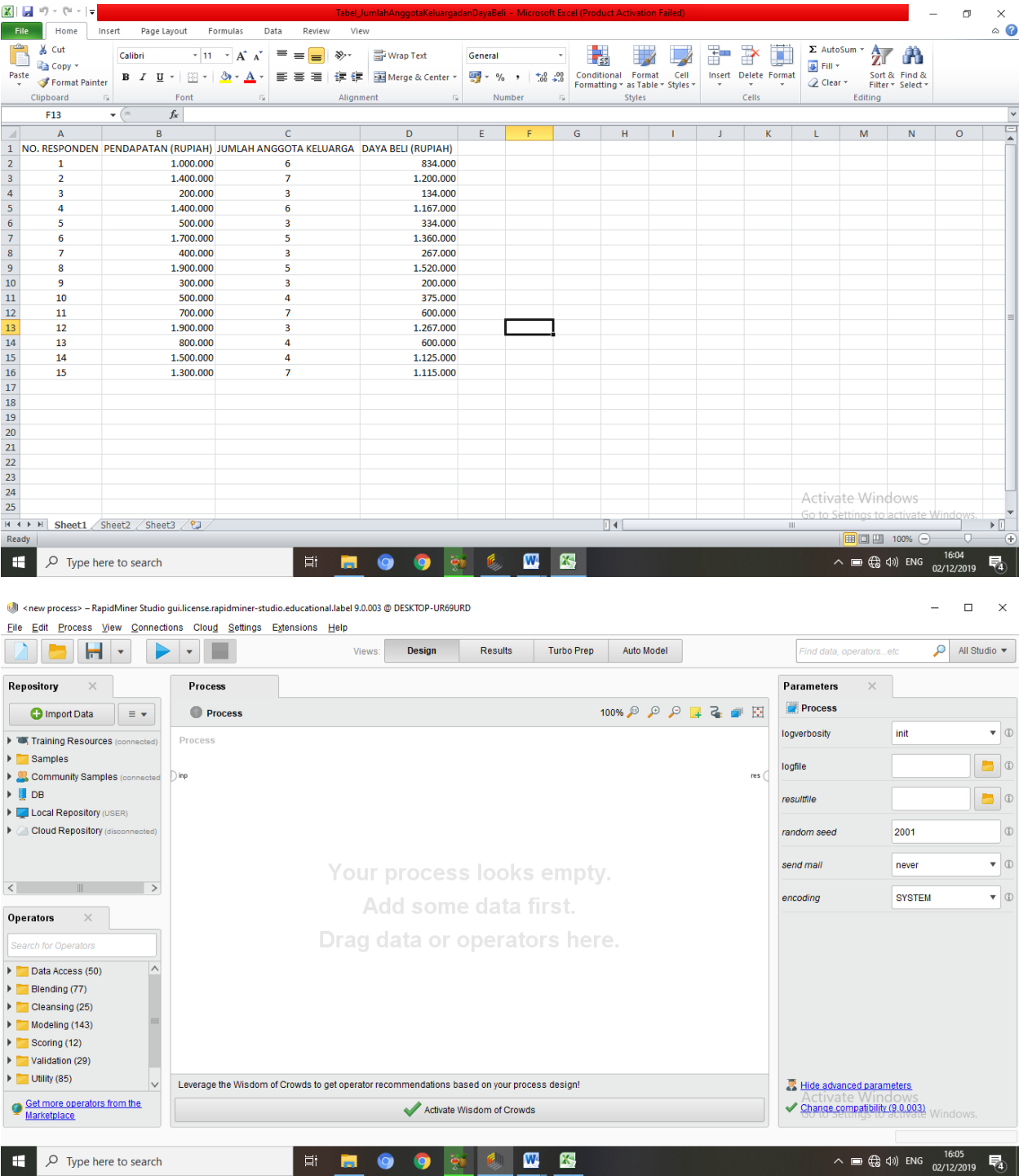
Kelas : C

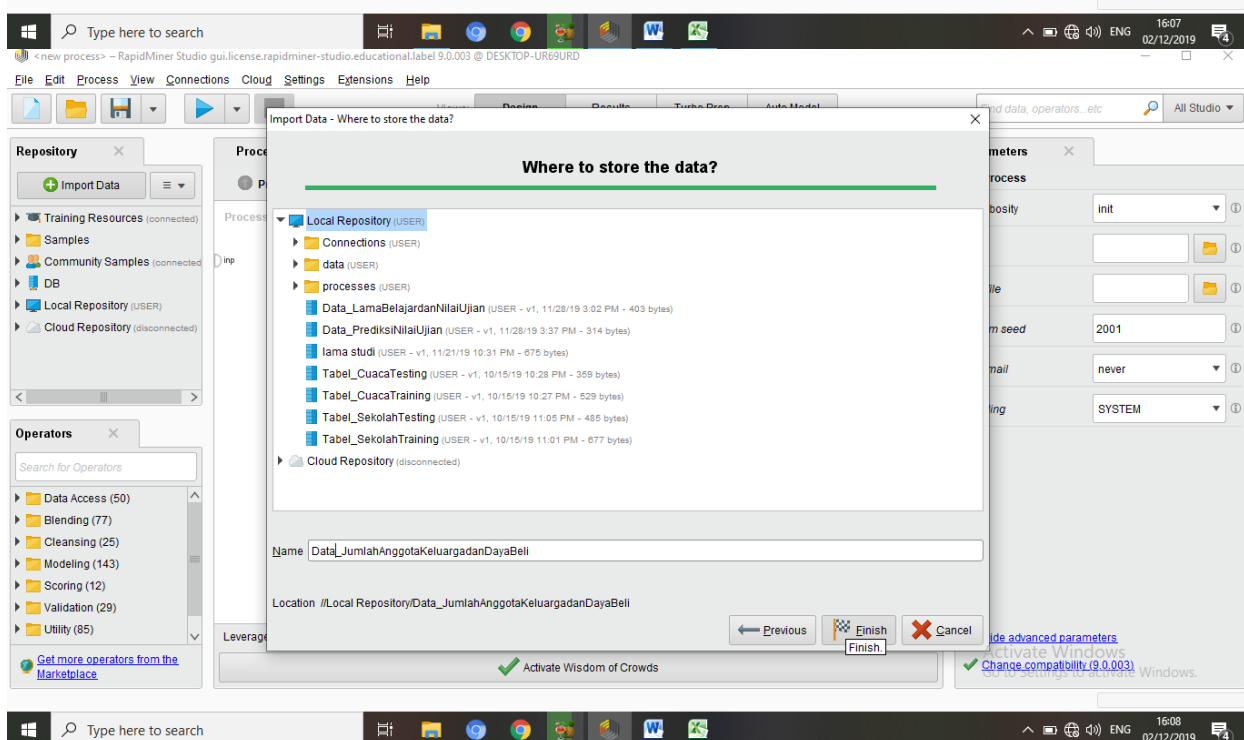
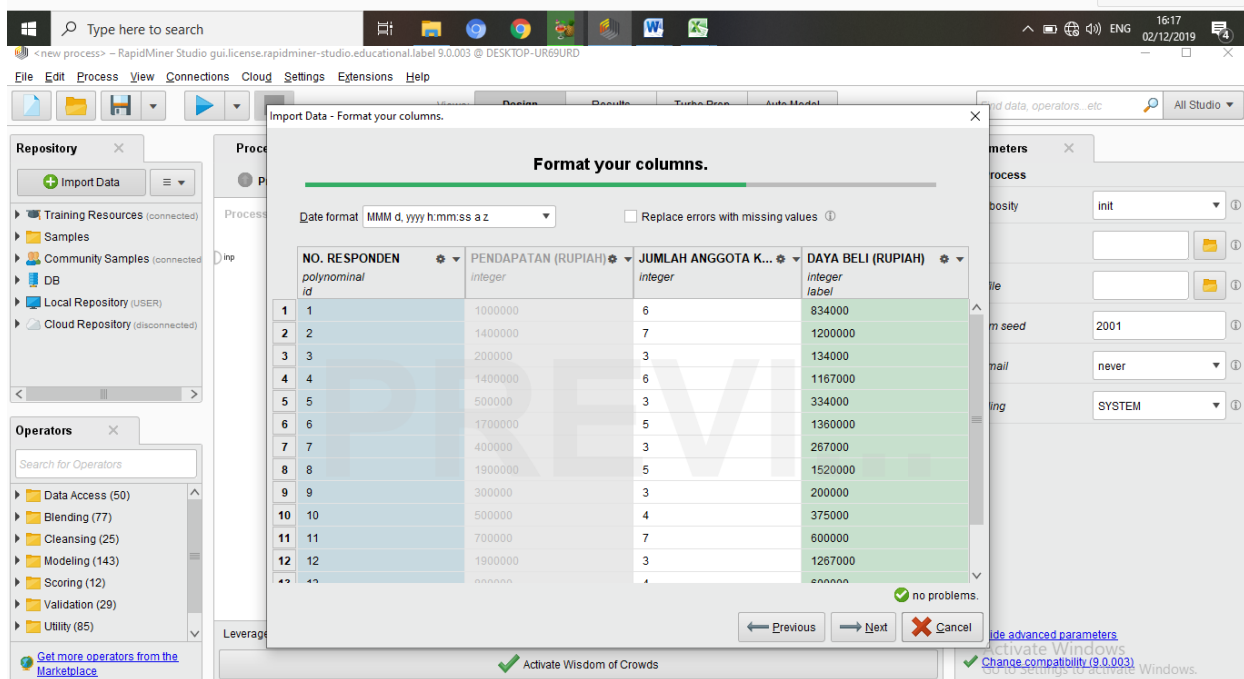
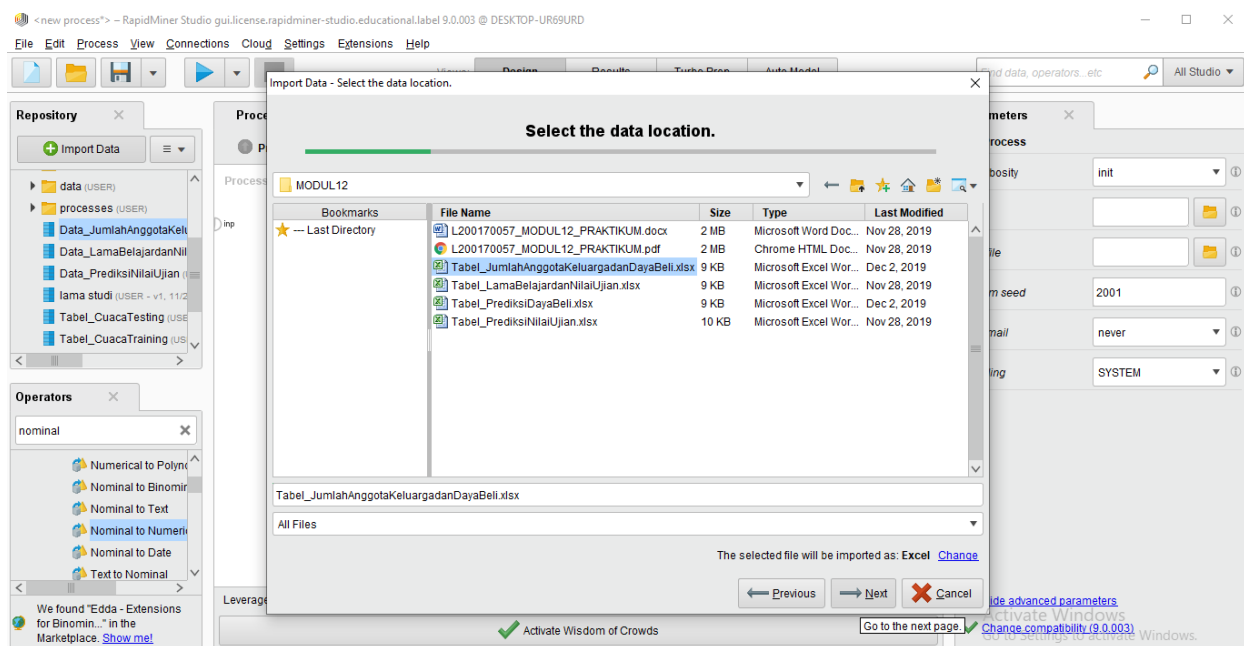
MODUL 12

REGRESI LINIER SEDERHANA

TUGAS

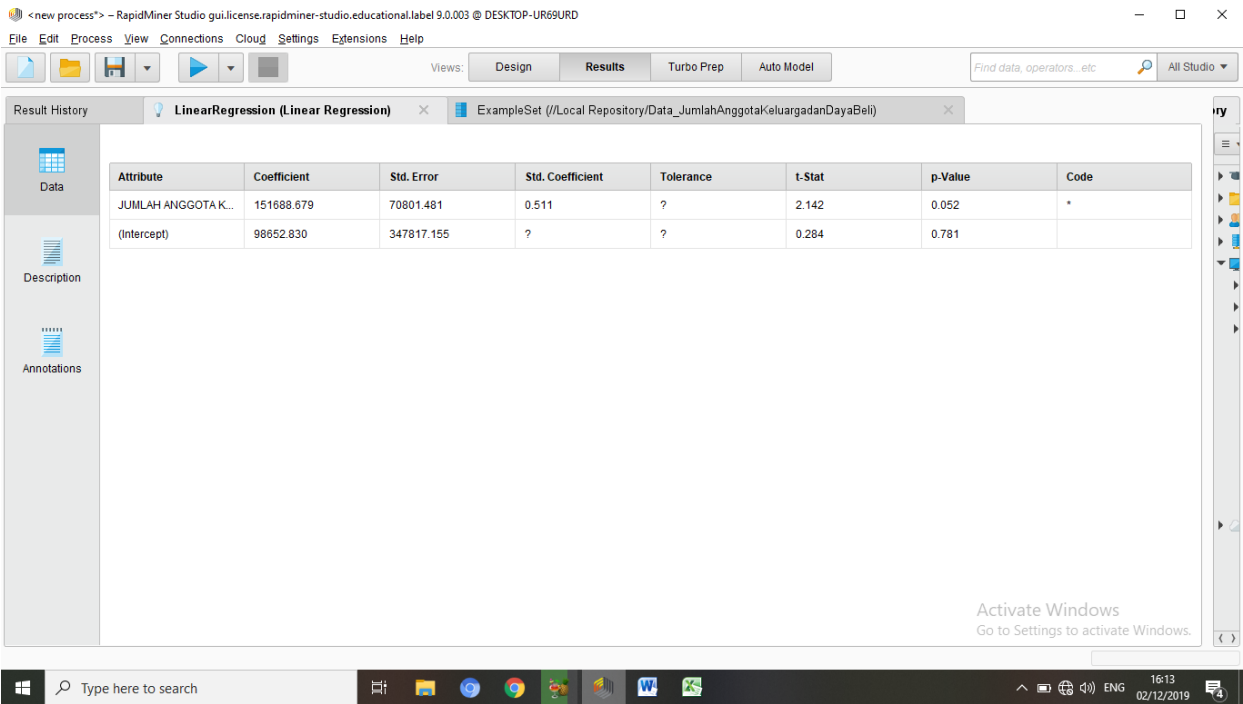
1. Mencari Nilai t-hitung dan Model Regresi Linier



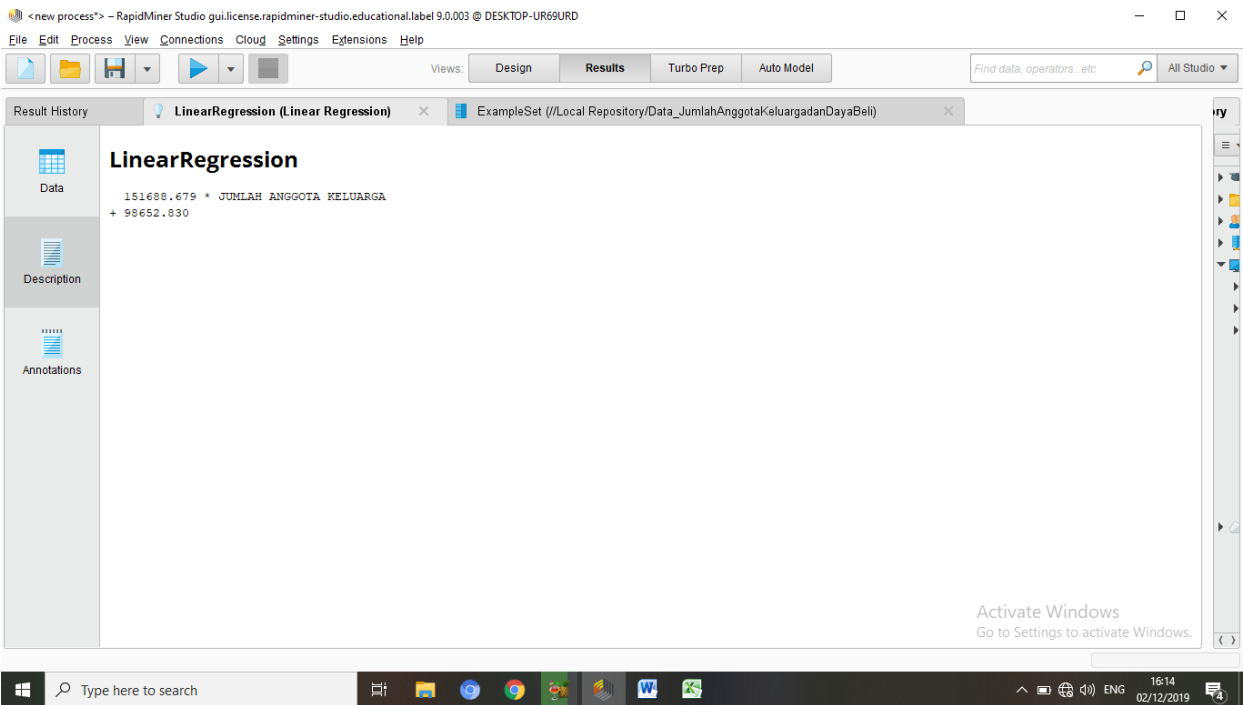


Hasil proses regresi linier :

a) Table View (mencari besarnya nilai t-hitung)



b) Text View (mencari model regresi)



2. Mencari Nilai t dan Model Regresi Linier Menggunakan RapidMiner

Tabel_PrediksiDayaBeli - Microsoft Excel (Product Activation Failed)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA												
2	1	900.000	5												
3	2	800.000	3												
4	3	500.000	2												
5	4	1.900.000	6												
6	5	600.000	2												
7	6	800.000	5												
8	7	1.000.000	6												
9	8	1.100.000	4												
10	9	1.000.000	4												
11	10	500.000	3												
12															
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<new process> - RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD

File Edit Process View Connections Cloud Settings Extensions Help

Views: Design Results Turbo Prep Auto Model

Find data, operators, etc. All Studio

Repository

- data (USER)
- processes (USER)
- Data_JumlahAnggotaKel...
- Data_LamaBelajardanNil...
- Data_PrediksiNilaiUjian (R...
- lama studi (USER - v1.11/2...
- Tabel_CuacaTesting (USE...
- Tabel_CuacaTraining (US...

Operators

nominal

- Numerical to Polynom...
- Nominal to Binomir...
- Nominal to Text
- Nominal to Numen...
- Nominal to Date
- Text to Nominal

We found "Edda - Extensions for Binomin..." in the Marketplace. [Show me!](#)

Process

Process

100%

Your process looks empty. Add some data first. Drag data or operators here.

Leverage the Wisdom of Crowds to get operator recommendations based on your process design!

Activate Wisdom of Crowds

Parameters

Process

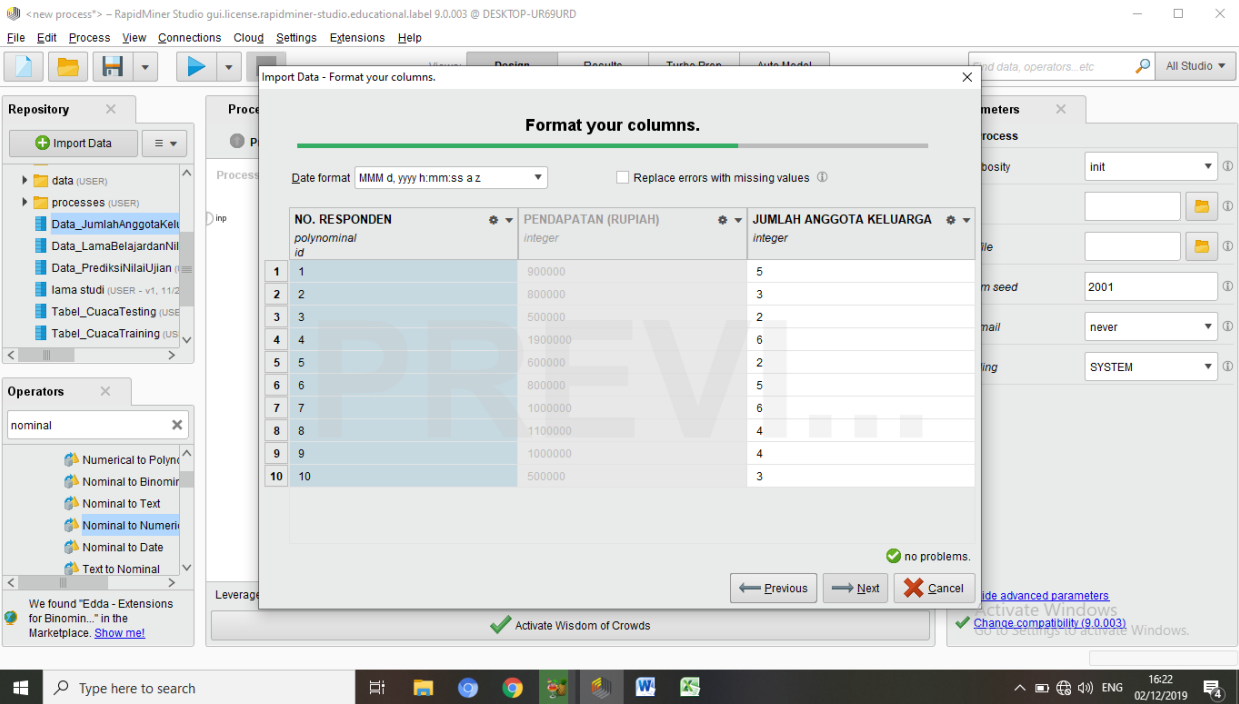
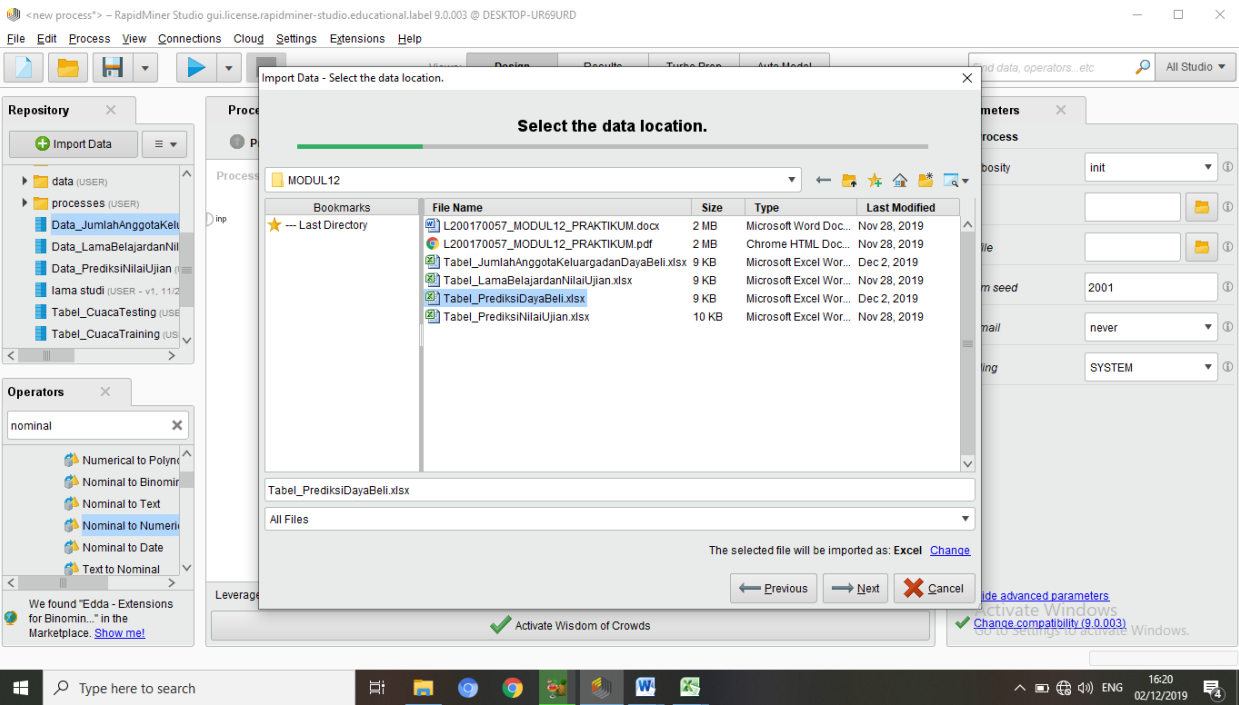
- logverbosity: init
- logfile:
- resultfile:
- random seed: 2001
- send mail: never
- encoding: SYSTEM

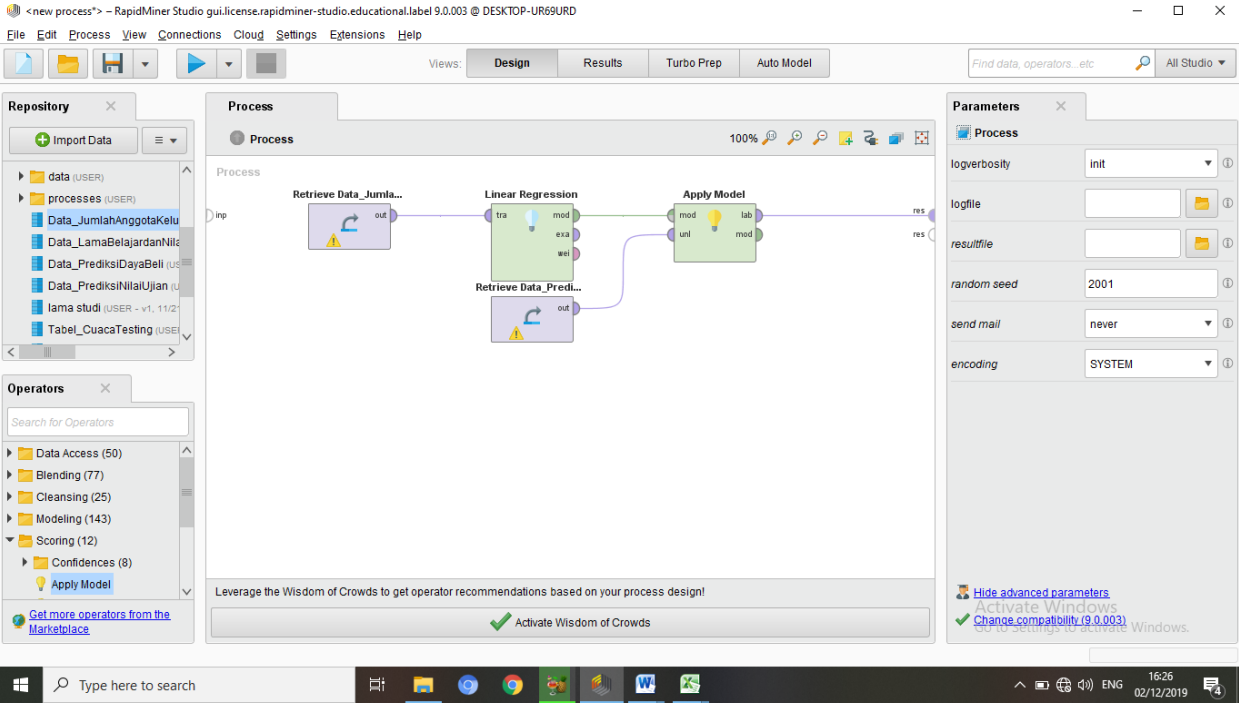
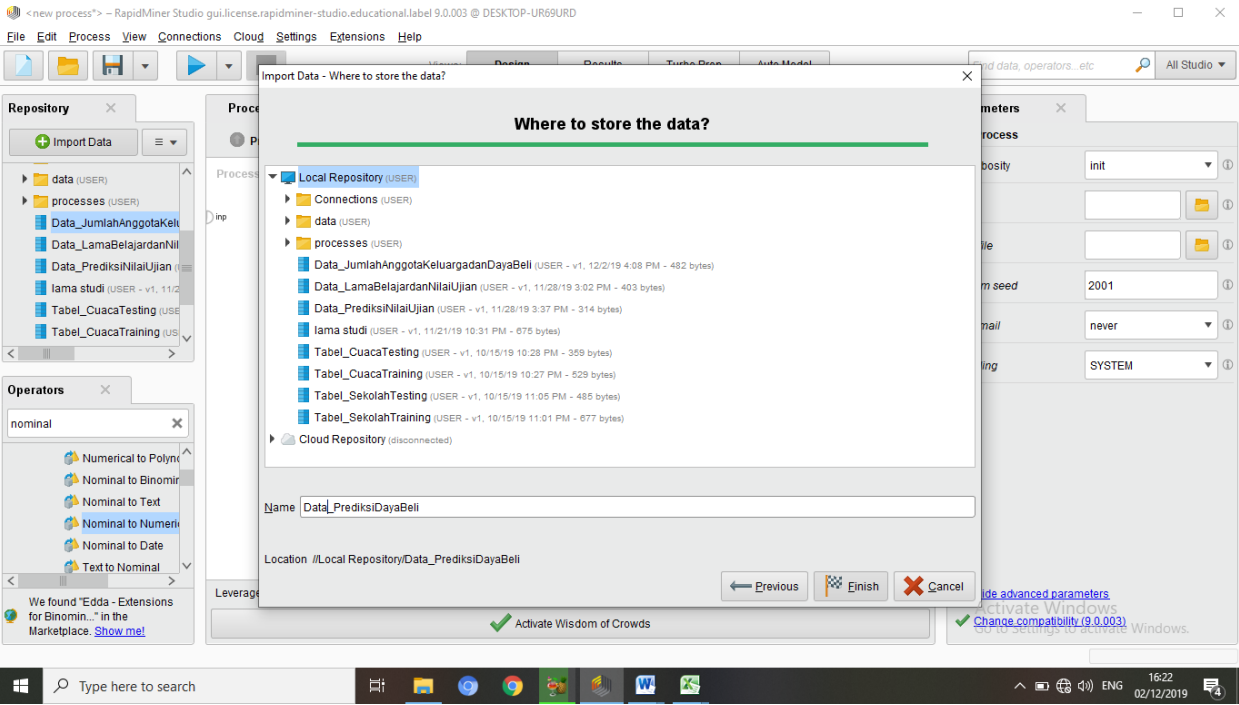
[Hide advanced parameters](#)

Activate Windows

[Change compatibility \(9.0.003\)](#)

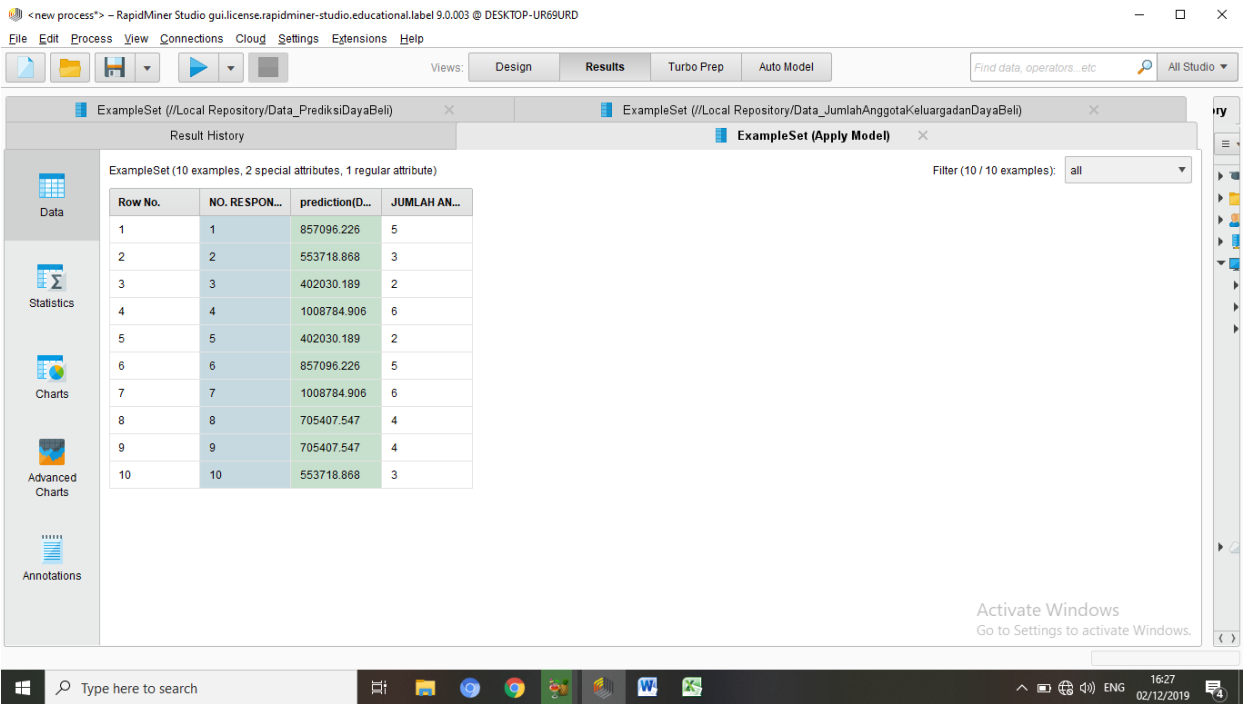
[Go to Settings to activate Windows.](#)





Hasil proses prediksi terhadap data testing menggunakan regresi linier :

a) Data View (mencari besarnya nilai t-hitung)

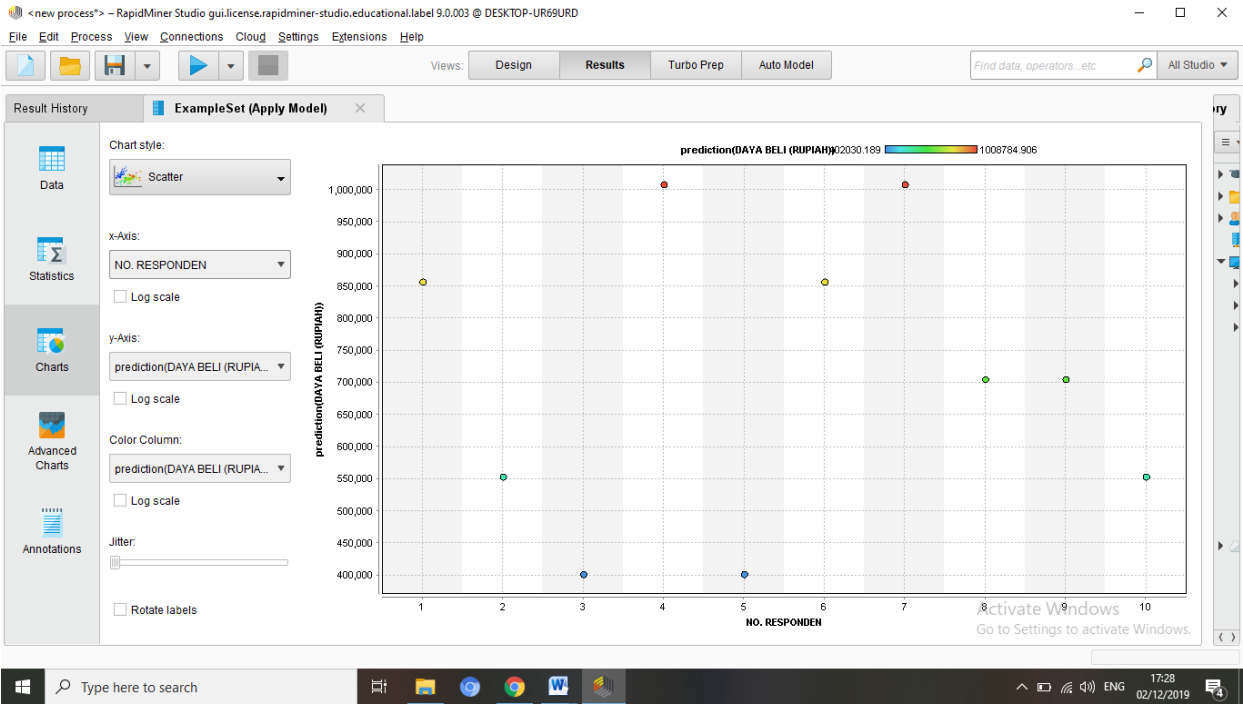


b) Charts View (Scatter Plot)

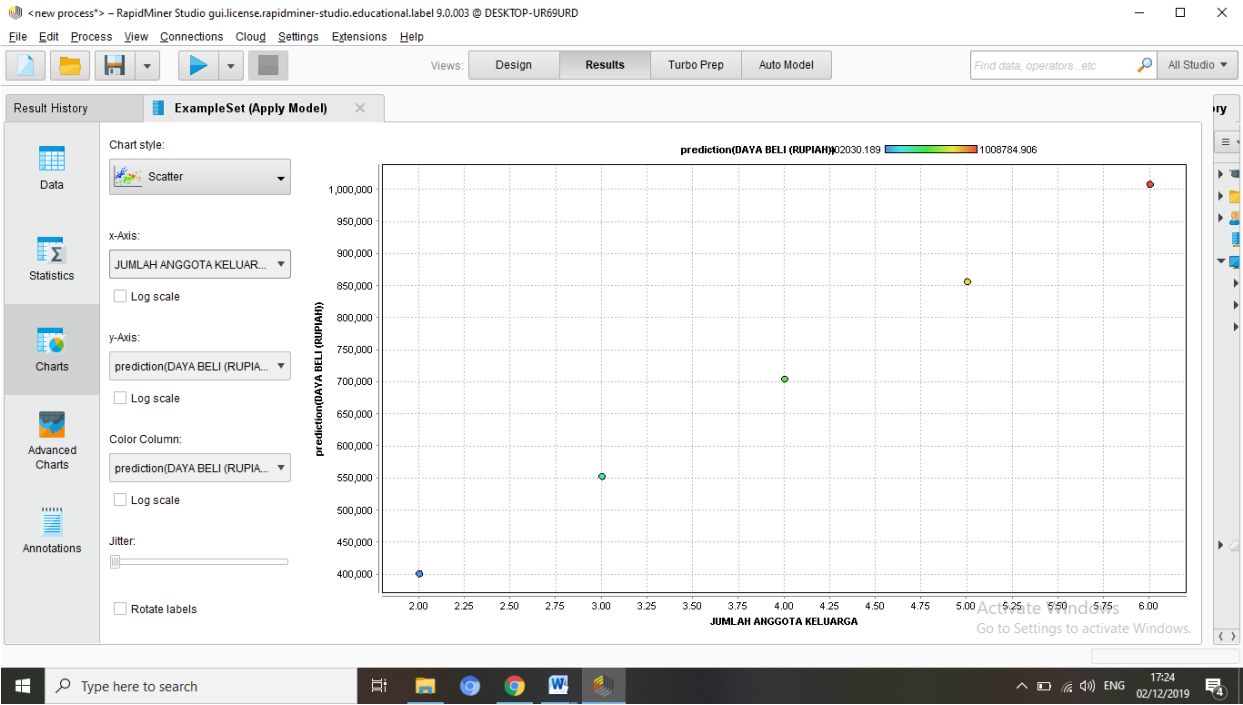
x-Axis = No. Responden,

y-Axis = Prediction (Daya Beli (Rupiah)),

Color Column = Prediction (Daya Beli (Rupiah))



x-Axis = Jumlah Anggota Keluarga,
y-Axis = Prediction (Daya Beli (Rupiah)),
Color Column = Prediction (Daya Beli (Rupiah))



3. Pembuktian Model Regresi
 $Y = 151688,679 X_1 + 98652,830$

The figure is a screenshot of a Microsoft Excel spreadsheet titled "Tabel_PrediksiDayaBeli". The spreadsheet contains data for 10 respondents, including their income (PENDAPATAN (RUPIAH)), family size (JUMLAH ANGGOTA KELUARGA), and predicted purchase power (PREDICTION (DAYA BELI)). The predicted values are calculated using the regression equation $Y = 151688,679 X_1 + 98652,830$. The spreadsheet is organized into columns: A (NO. RESPONDEN), B (PENDAPATAN (RUPIAH)), C (JUMLAH ANGGOTA KELUARGA), D (PREDICTION (DAYA BELI)), and E (PREDICTION (DAYA BELI)). The predicted values are highlighted in blue. The bottom status bar shows the time as 16:58 on 02/12/2019.

NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA	PREDICTION (DAYA BELI)	PREDICTION (DAYA BELI)
1	900.000	5	857096,226	857096,225
2	800.000	3	553718,868	553718,867
3	500.000	2	402030,189	402030,188
4	1.900.000	6	1008784,906	1008784,904
5	600.000	2	402030,189	402030,188
6	800.000	5	857096,226	857096,225
7	1.000.000	6	1008784,906	1008784,904
8	1.100.000	4	705407,547	705407,546
9	1.000.000	4	705407,547	705407,546
10	500.000	3	553718,868	553718,867