

Nama : Avifah Hasna N F

NIM : L200170072

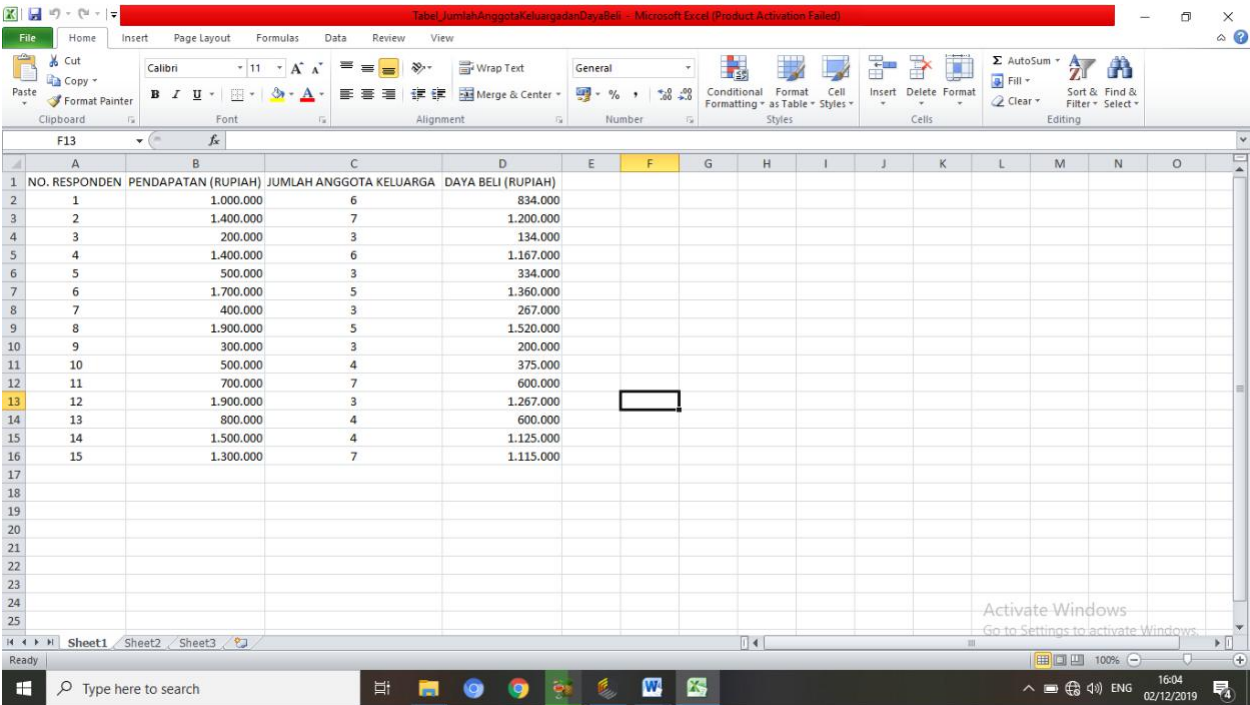
Kelas : C

MODUL 12

REGRESI LINIER SEDERHANA

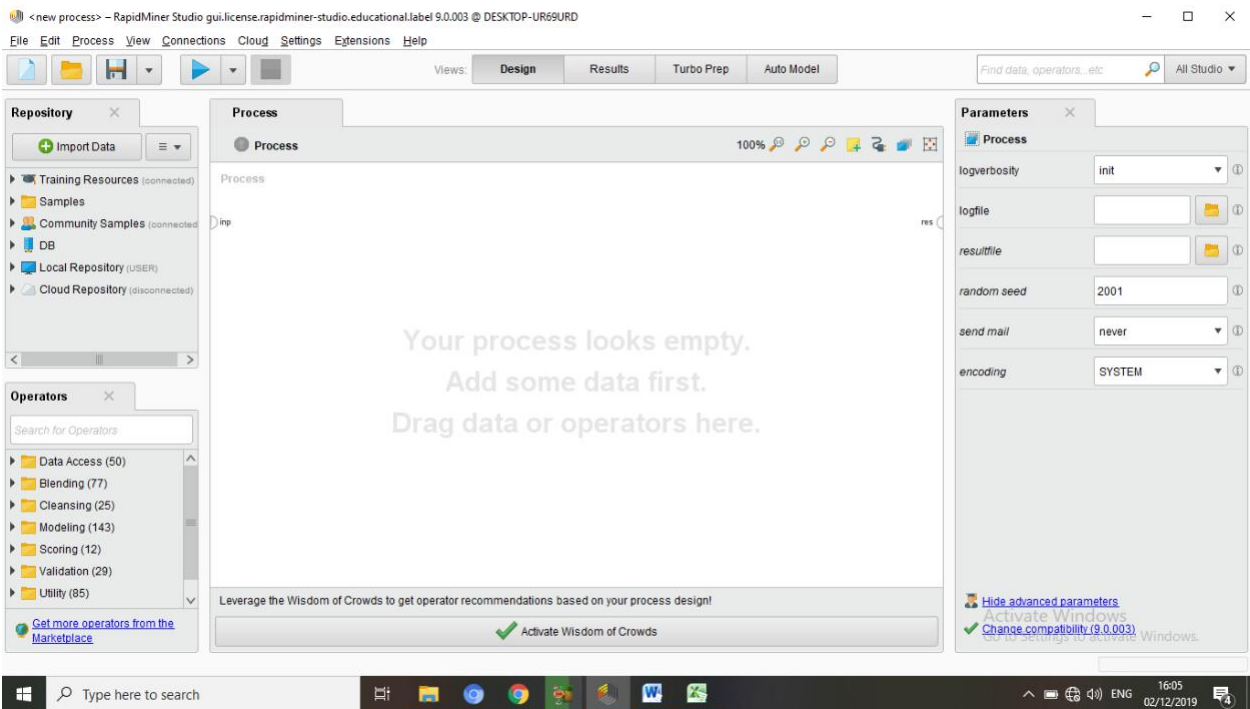
TUGAS

1. Mencari Nilai t-hitung dan Model Regresi Linier



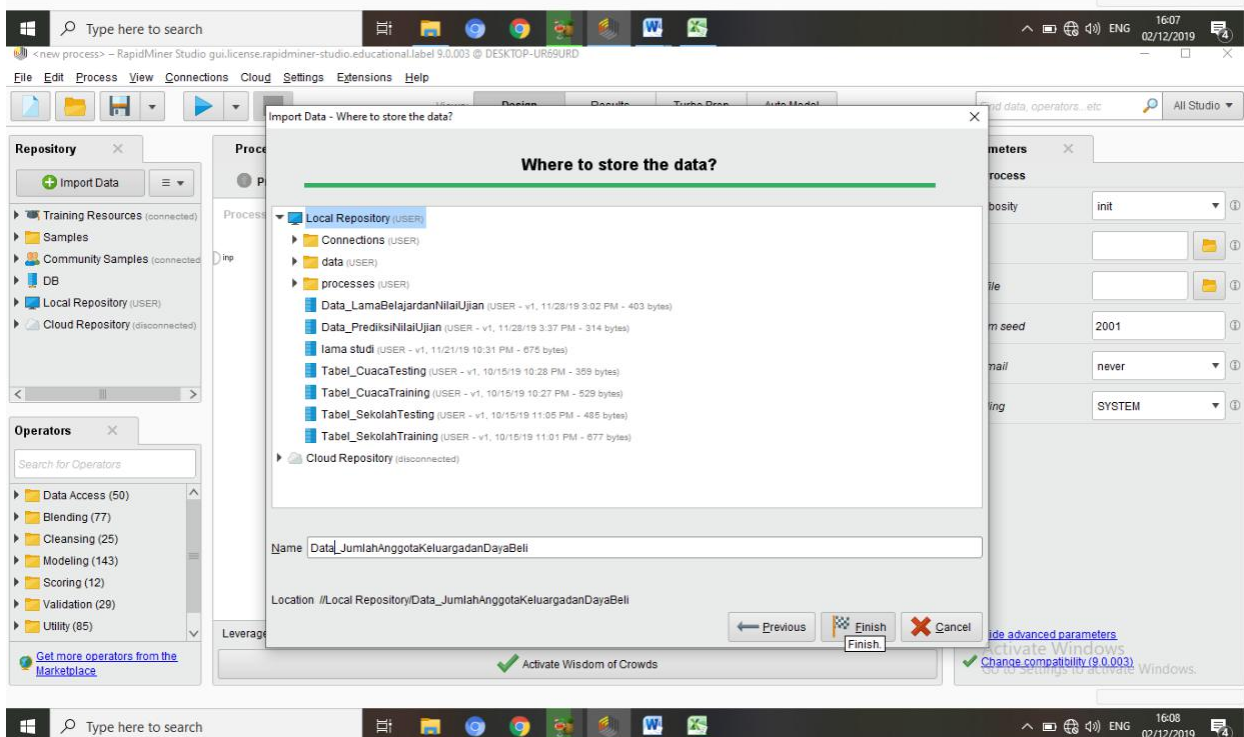
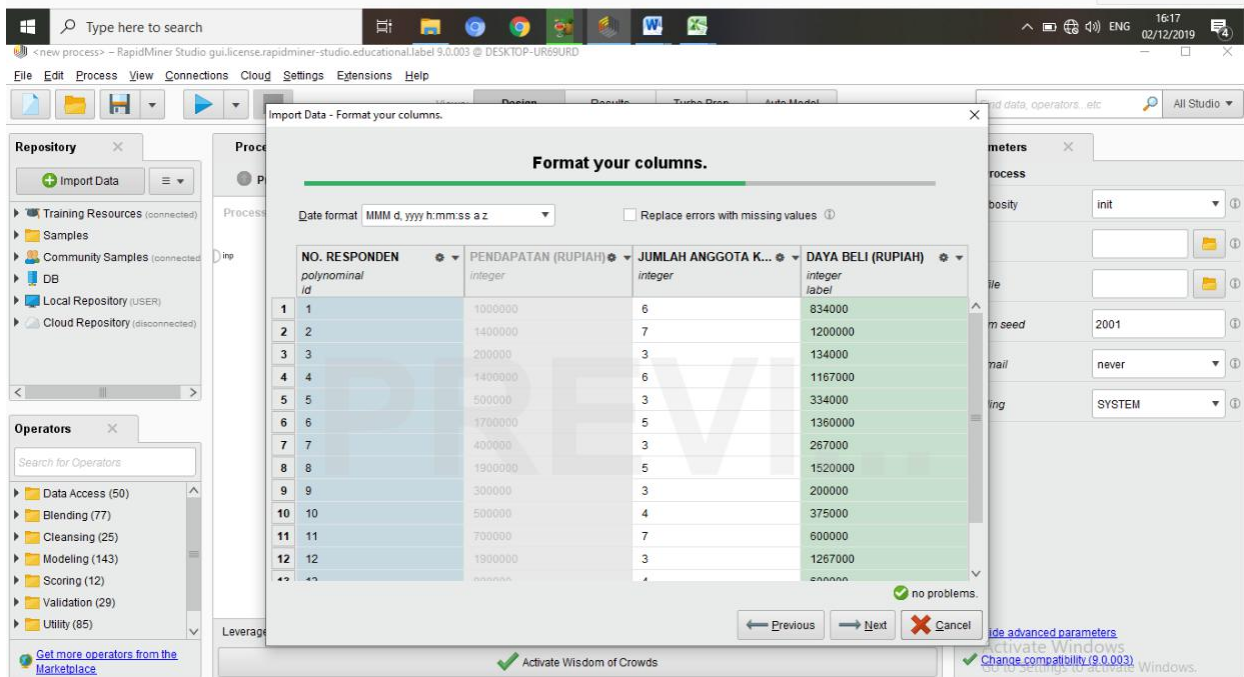
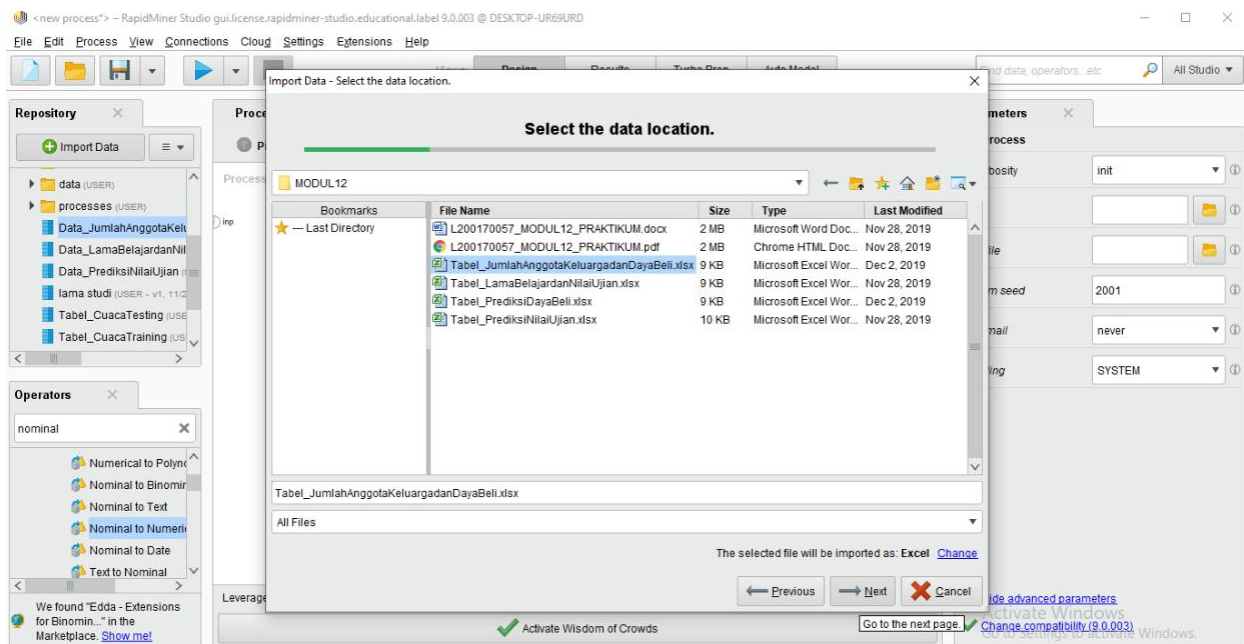
The screenshot shows a Microsoft Excel spreadsheet titled "Tabel Jumlah Anggota Keluarga dan Daya Beli". The data is organized into columns: A (NO. RESPONDEN), B (PENDAPATAN (RUPIAH)), C (JUMLAH ANGGOTA KELUARGA), and D (DAYA BELI (RUPIAH)). The rows contain 15 data points. The status bar at the bottom indicates the file is on "Sheet1" and the window title is "Tabel Jumlah Anggota Keluarga dan Daya Beli - Microsoft Excel (Product Activation Failed)".

NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA	DAYA BELI (RUPIAH)
1	1.000.000	6	834.000
2	1.400.000	7	1.200.000
3	200.000	3	134.000
4	1.400.000	6	1.167.000
5	900.000	3	334.000
6	1.700.000	5	1.360.000
7	400.000	3	267.000
8	1.900.000	5	1.520.000
9	300.000	3	200.000
10	500.000	4	375.000
11	700.000	7	600.000
12	1.900.000	3	1.267.000
13	800.000	4	600.000
14	1.500.000	4	1.125.000
15	1.300.000	7	1.115.000



The screenshot shows the RapidMiner Studio interface. The main canvas is empty, displaying the message: "Your process looks empty. Add some data first. Drag data or operators here." The left sidebar contains the "Repository" and "Operators" panels. The "Process" panel on the right shows parameters for a "Process" operator, including "logverbosity" (init), "logfile" (empty), "resultfile" (empty), "random seed" (2001), "send mail" (never), and "encoding" (SYSTEM). The status bar at the bottom indicates the file is on "Sheet1" and the window title is "RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD".

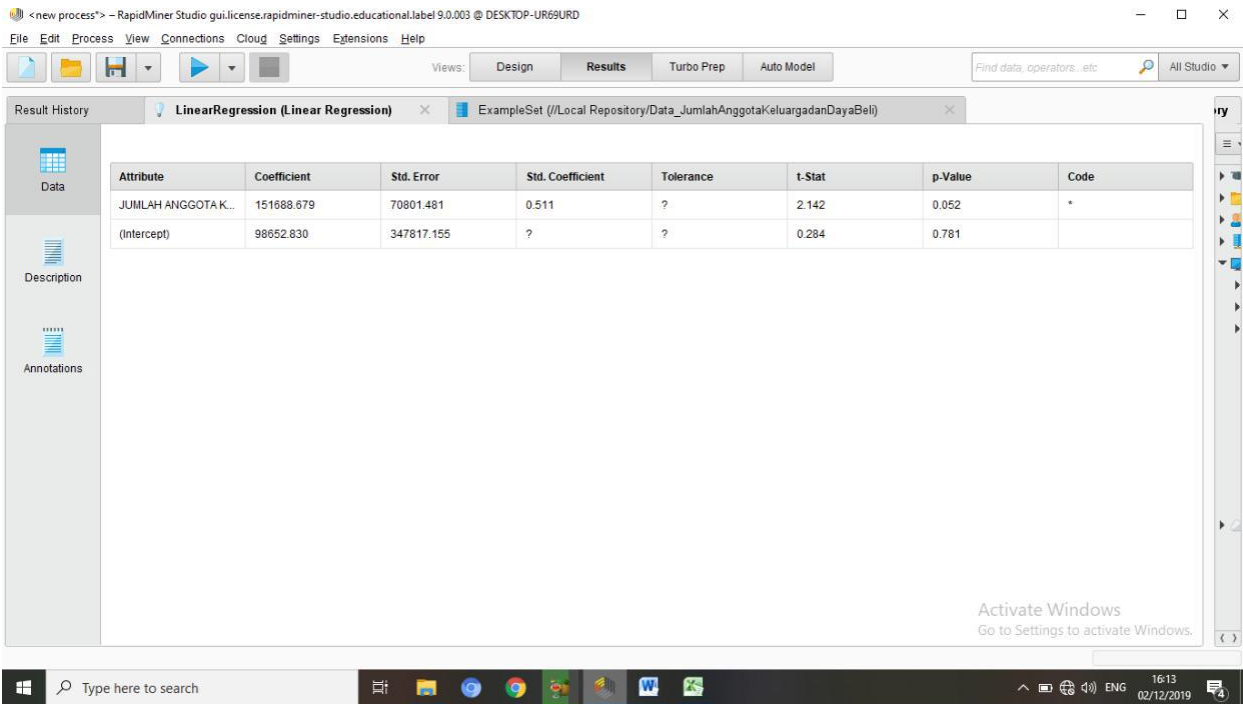
Parameter	Value
logverbosity	init
logfile	
resultfile	
random seed	2001
send mail	never
encoding	SYSTEM



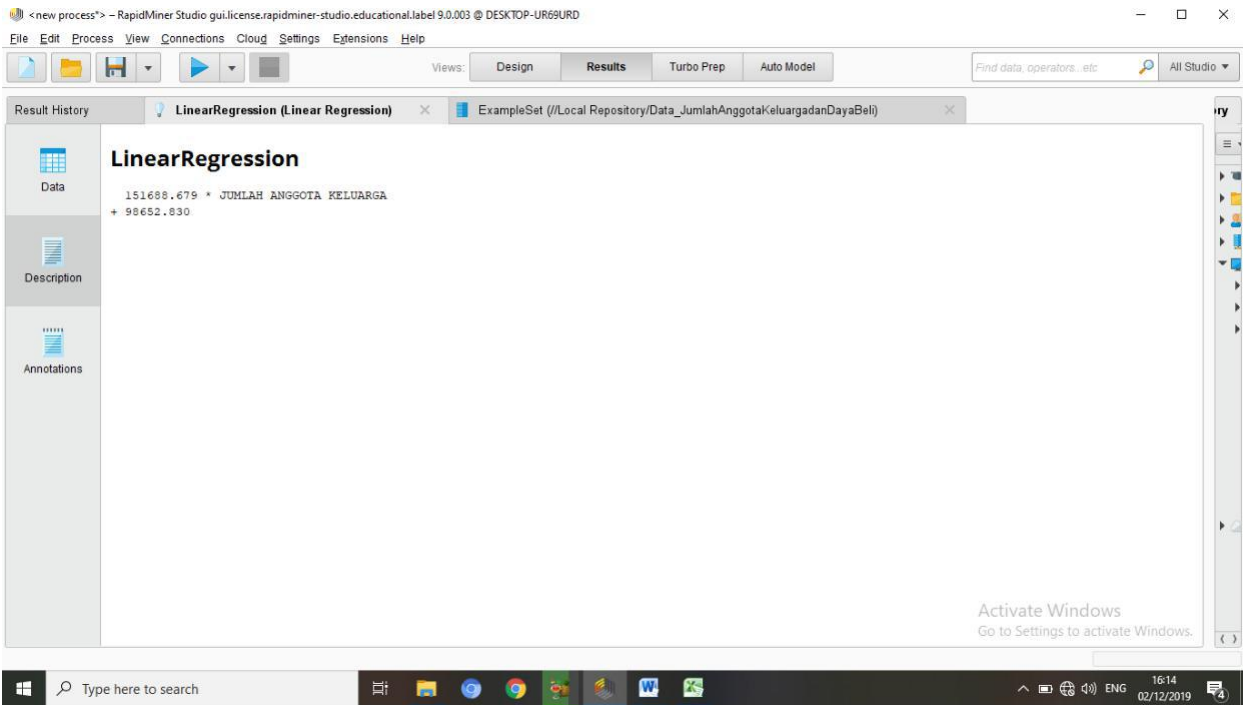


Hasil proses regresi linier :

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



b) Text View (mencari model regresi)





2. Mencari Nilai t dan Model Regresi Linier Menggunakan RapidMiner

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															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															

new process\* - RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 © DESKTOP-UR69URD

Repository

Import Data

data (USER)

processes (USER)

Data\_JumlahAnggotaKel

Data\_LamaBelajardanNil

Data\_PrediksiNilaiUjian

lama studi (USER - v1.11.2)

Tabel\_CuacaTesting (USE

Tabel\_CuacaTraining (US

Operators

nominal

Numerical to Polyn

Nominal to Binomir

Nominal to Text

Nominal to Numen

Nominal to Date

Text to Nominal

Process

Process

100%

inp

res

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

logverbosityinit

logfile

resultfile

random seed2001

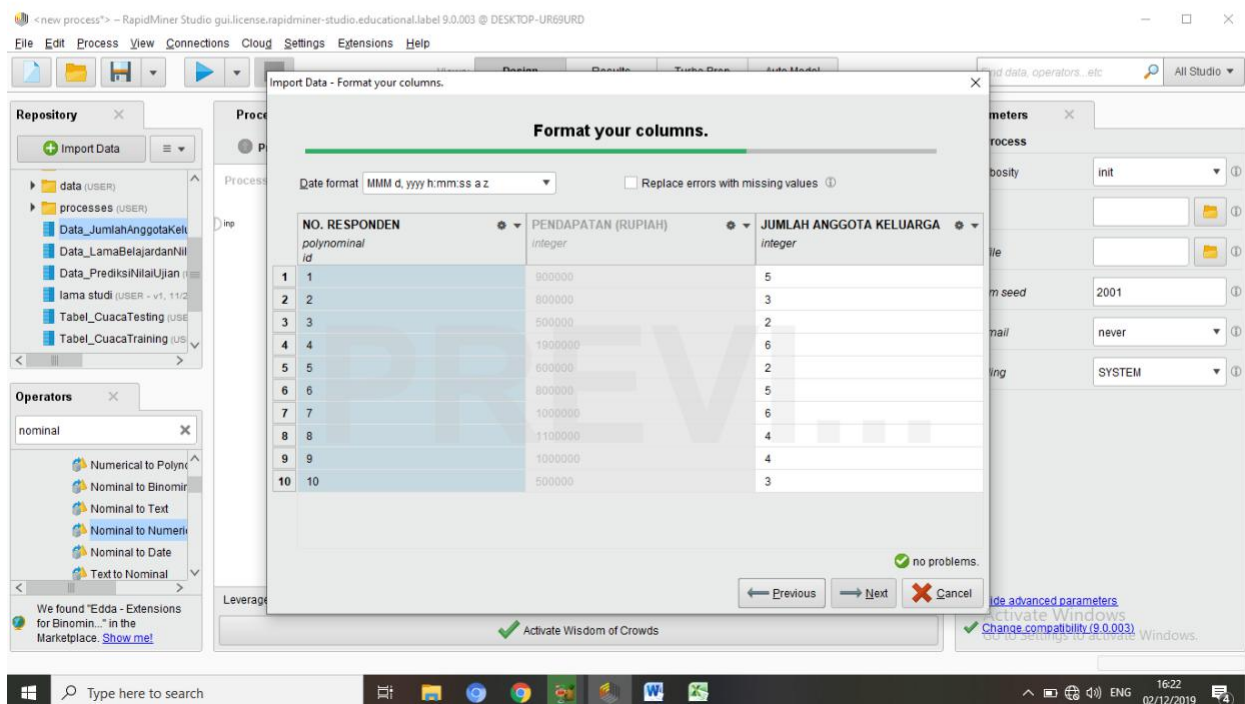
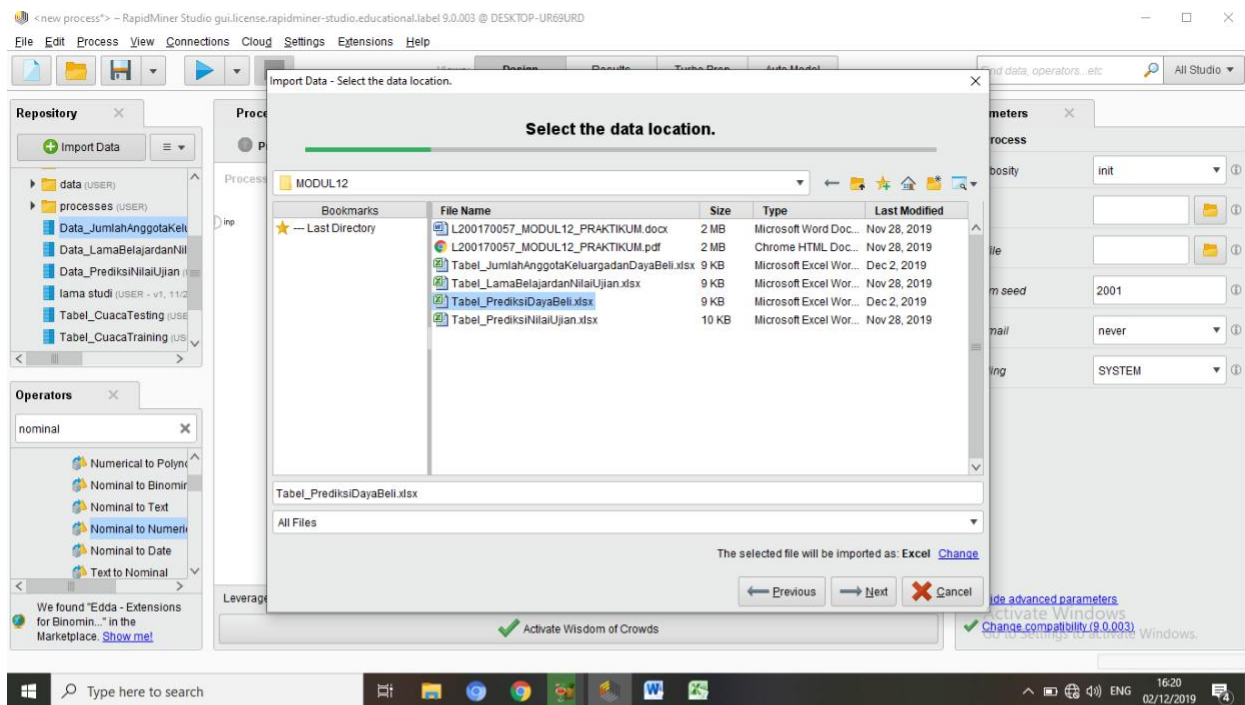
send mailnever

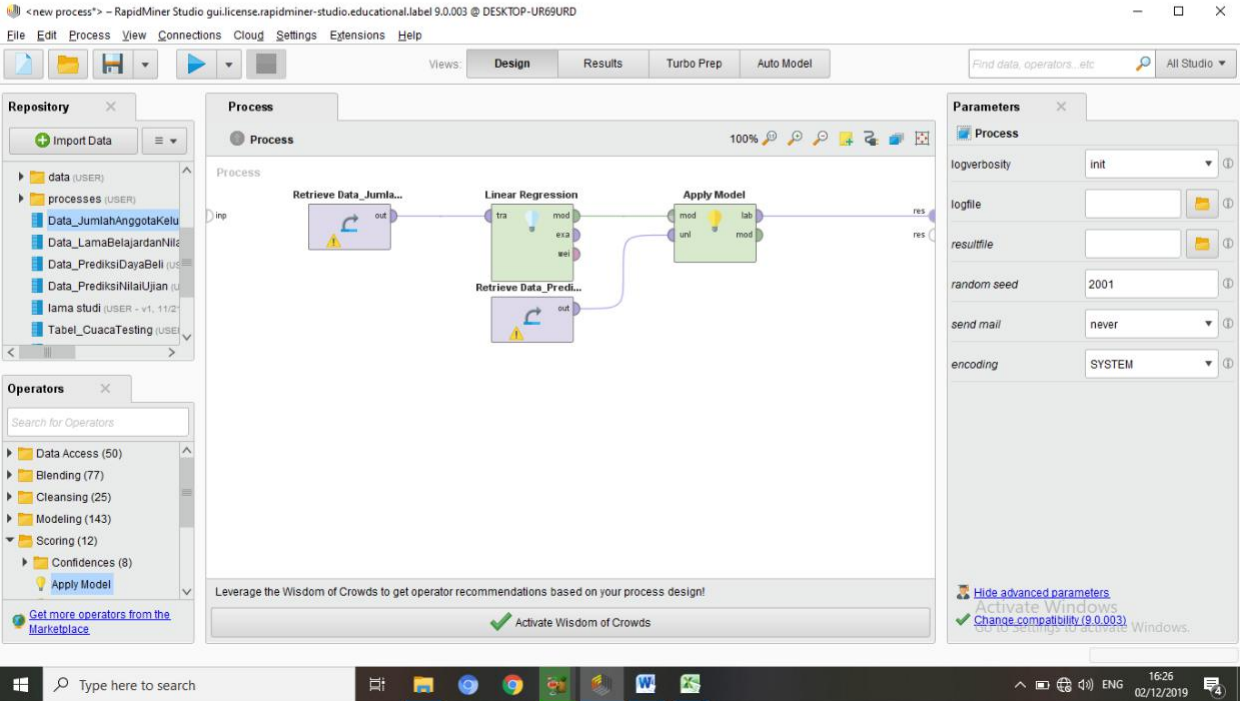
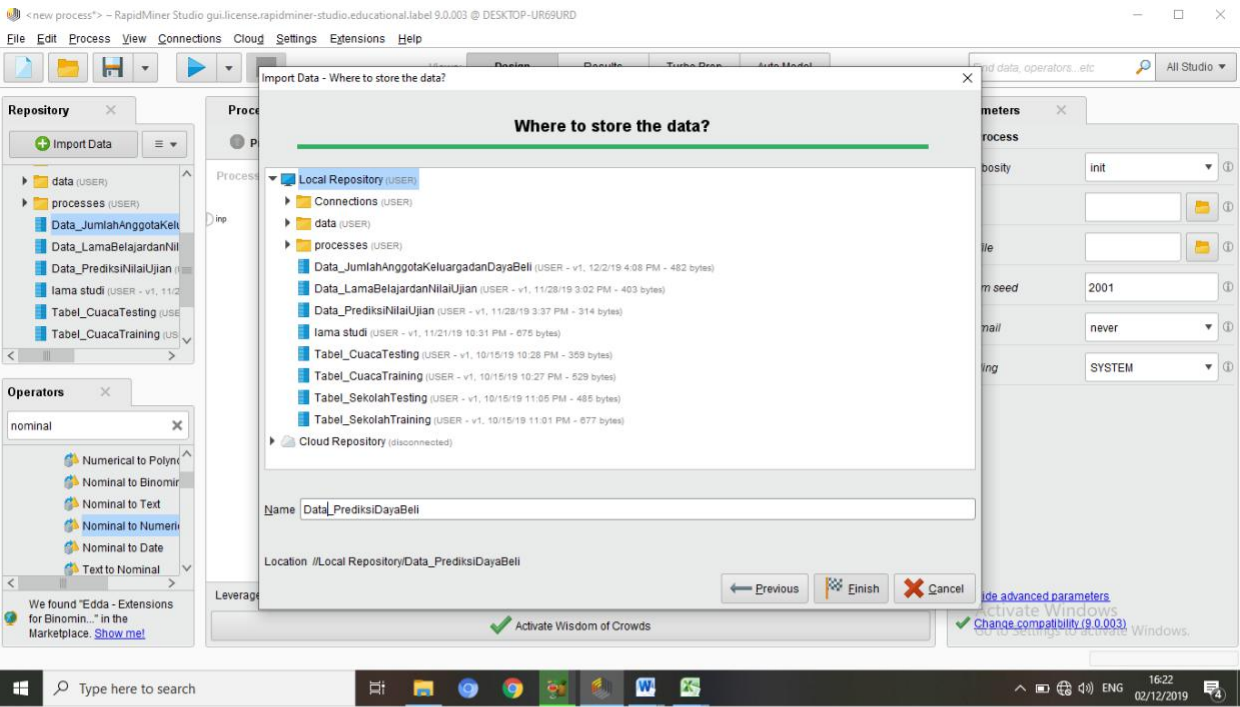
encodingSYSTEM

Hide advanced parameters

Activate Windows

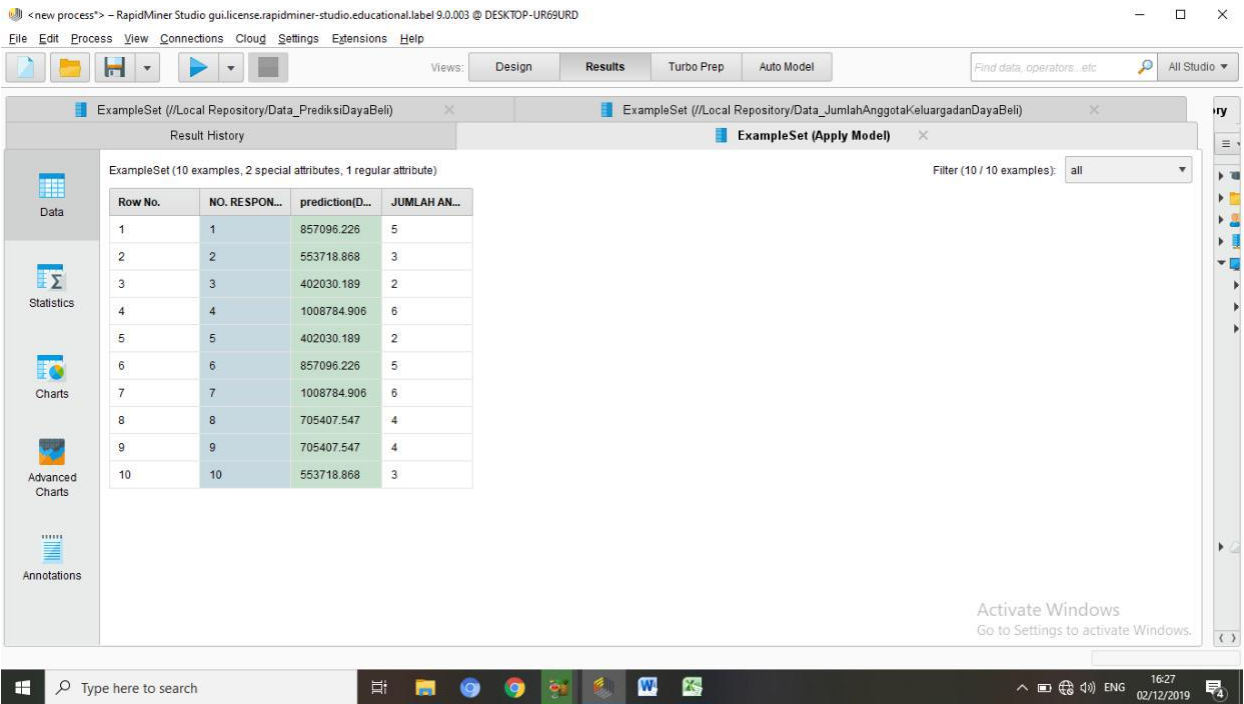
Change compatibility (9.0.003)





Hasil proses prediksi terhadap data testing menggunakan regresi linier :

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

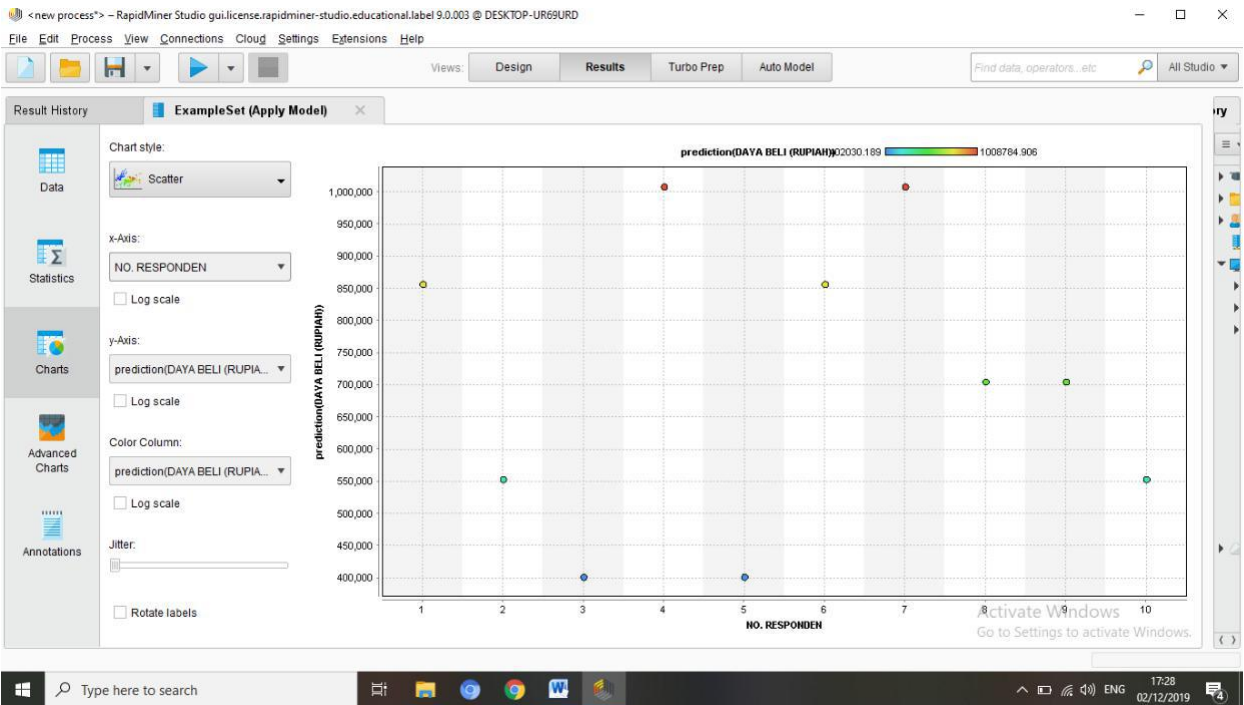


b) Charts View (Scatter Plot)

x-Axis = No. Responden,

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

Color Column = Prediction (Daya Beli (Rupiah))

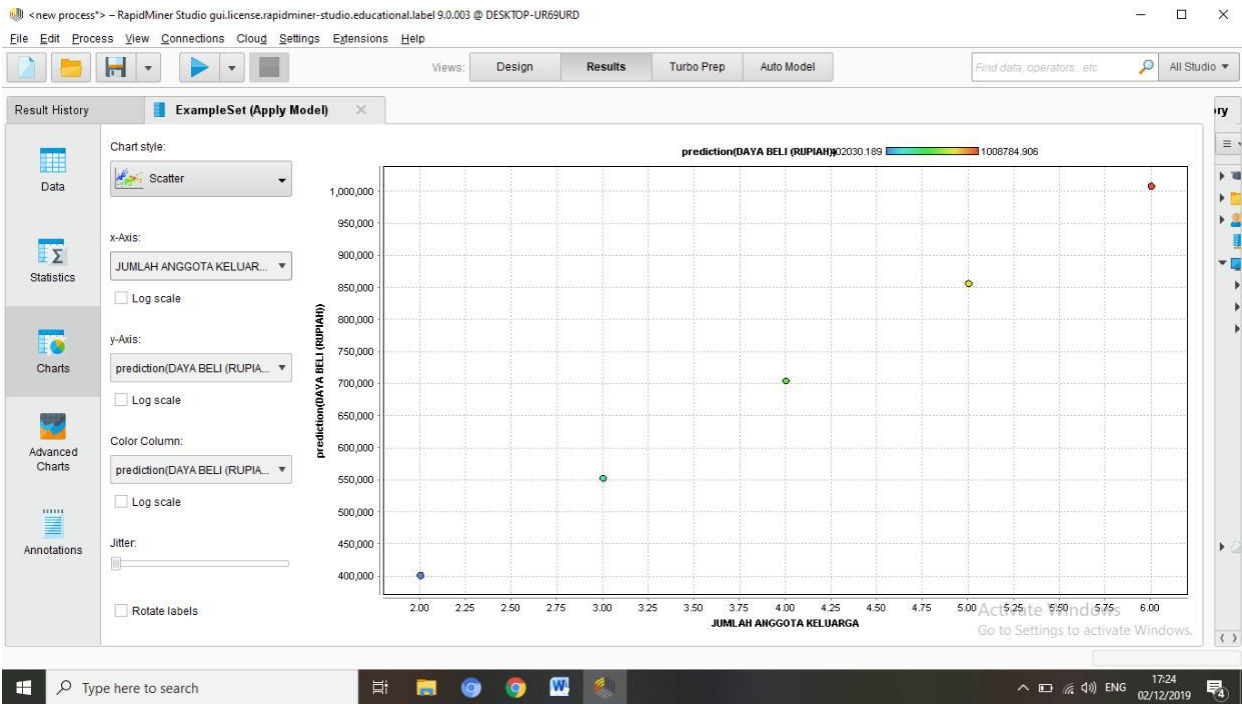




x-Axis = Jumlah Anggota Keluarga,

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

Color Column = Prediction (Daya Beli (Rupiah))



3. Pembuktian Model Regresi

$Y = 151688,679 X_1 + 98652,830$

The screenshot shows a Microsoft Excel spreadsheet titled "Tabel PrediksiDayaBeli - Microsoft Excel (Product Activation Failed)". The spreadsheet contains a table with the following data:

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

The formula bar shows the regression equation:  $= (151688,679 * C3) + 98652,83$ . The bottom status bar shows the average value of 705407,546, a count of 10, and a sum of 7054075,46. The date 02/12/2019 and time 16:58 are also displayed.