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NIM : L200170075

Kelas : C

MODUL 12

REGRESI LINIER SEDERHANA

TUGAS

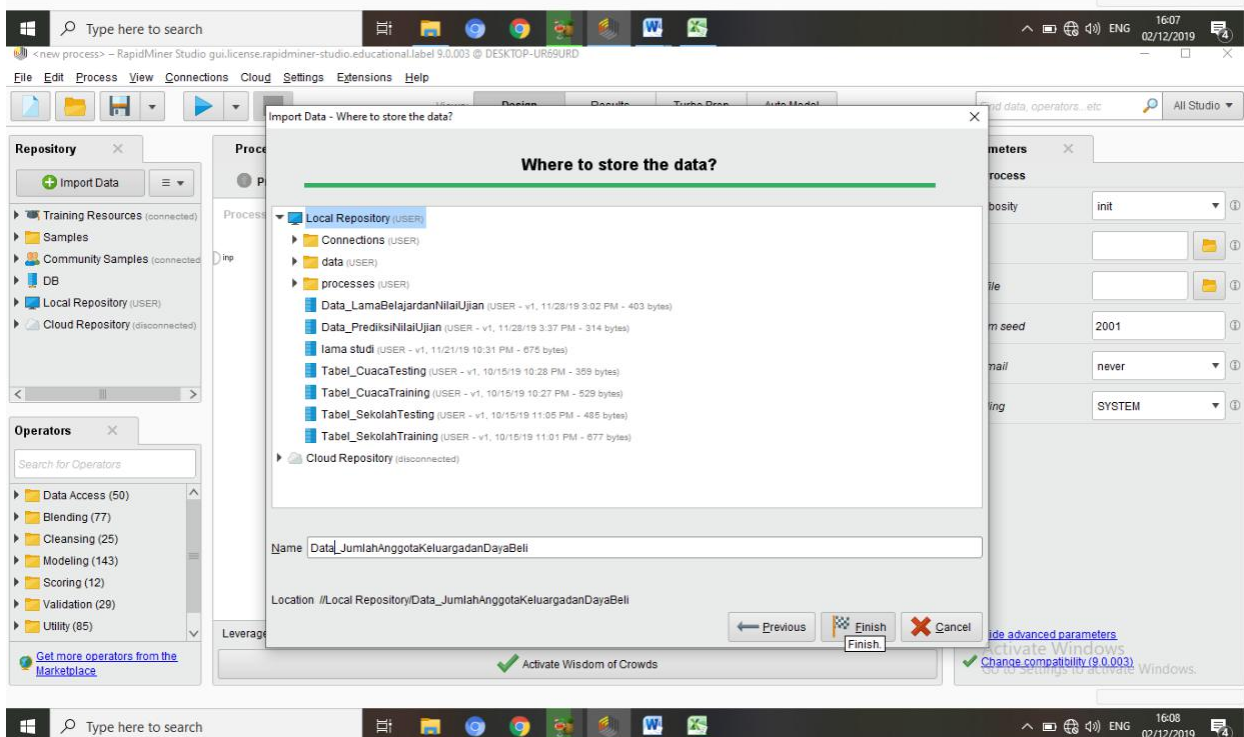
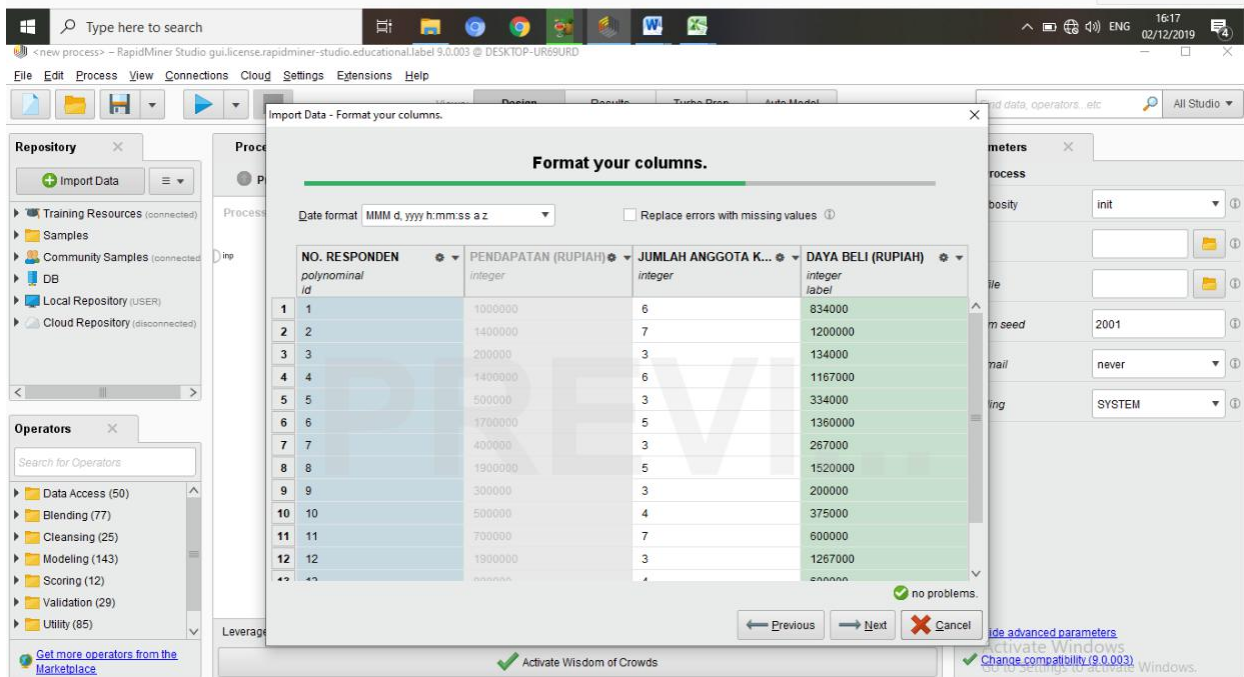
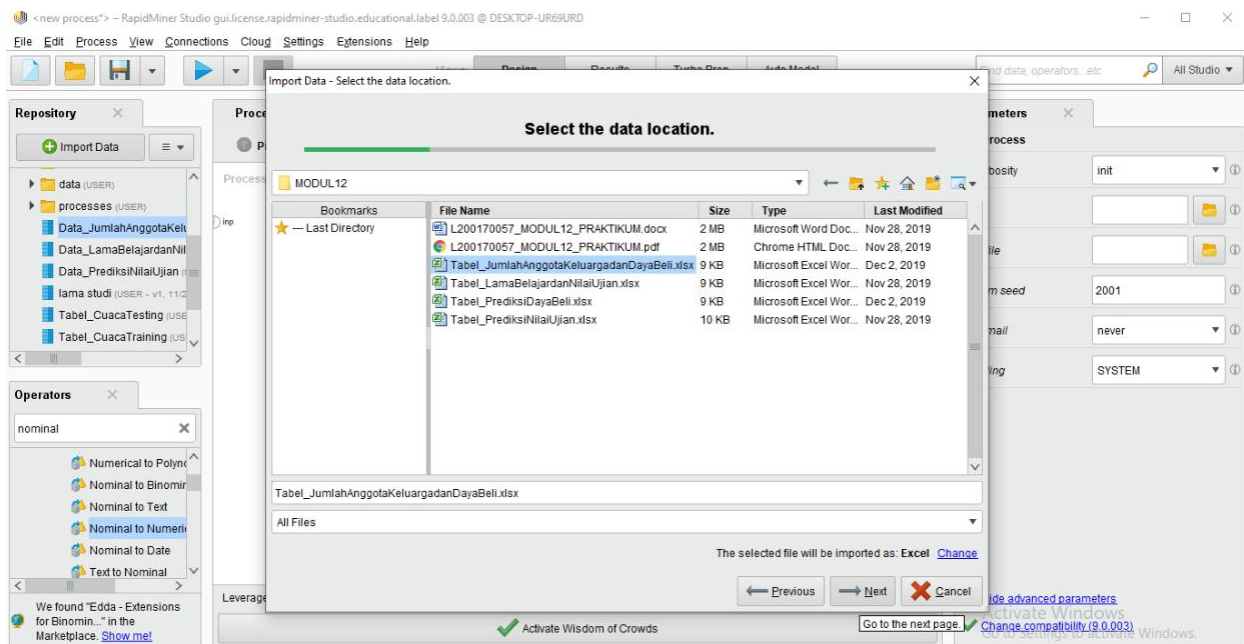
1. Mencari Nilai t-hitung dan Model Regresi Linier

Tabel_JumlahAnggotaKeluargaDanDayaBeli - 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	DAYA BELI (RUPIAH)											
2	1	1.000.000	6	834.000											
3	2	1.400.000	7	1.200.000											
4	3	200.000	3	134.000											
5	4	1.400.000	6	1.167.000											
6	5	900.000	3	334.000											
7	6	1.700.000	5	1.360.000											
8	7	400.000	3	267.000											
9	8	1.900.000	5	1.520.000											
10	9	300.000	3	200.000											
11	10	500.000	4	375.000											
12	11	700.000	7	600.000											
13	12	1.900.000	3	1.267.000											
14	13	800.000	4	600.000											
15	14	1.500.000	4	1.125.000											
16	15	1.300.000	7	1.115.000											
17															
18															
19															
20															
21															
22															
23															
24															
25															

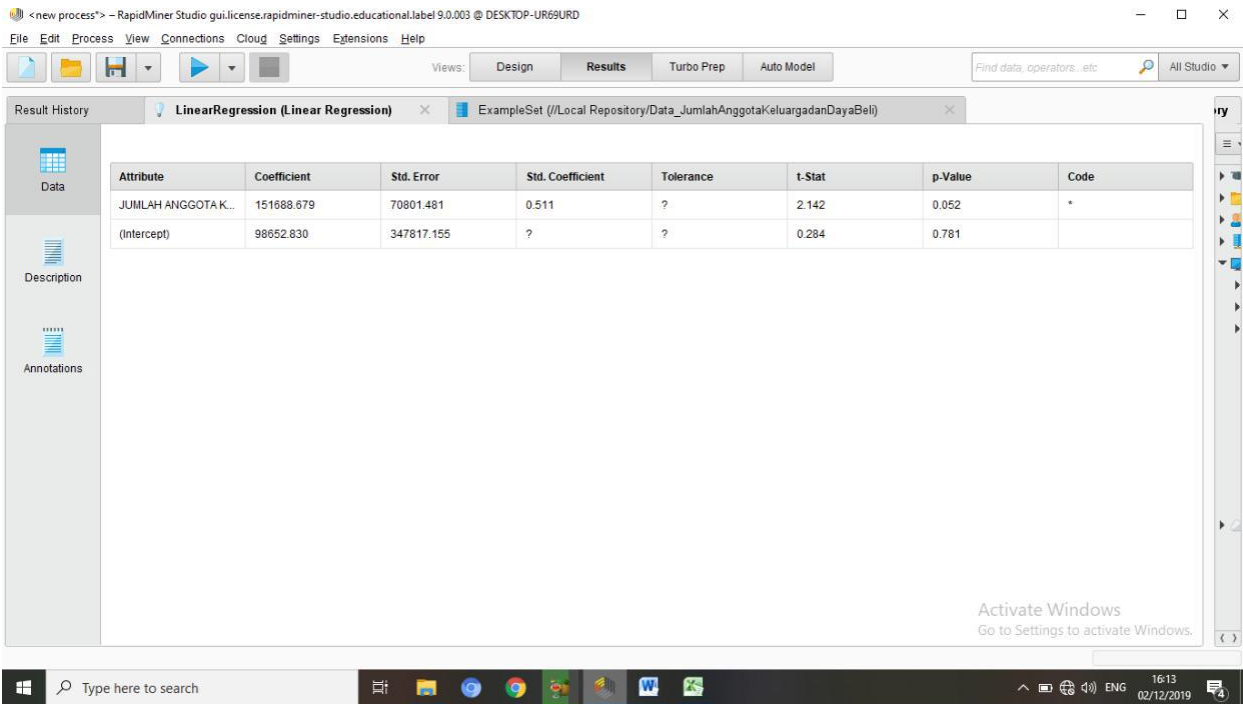
<new process> - RapidMiner Studio gui.license.rapidminer-studio.educational.label 9.0.003 @ DESKTOP-UR69URD

File	Edit	Process	View	Connections	Cloud	Settings	Extensions	Help
Views: Design Results Turbo Prep Auto Model								
Find data, operators, etc. All Studio								
Repository		Process				Parameters		
Import Data		Process				logverbosity init		
Training Resources (connected)		100%				logfile		
Samples		Your process looks empty.				resultfile		
Community Samples (connected)		Add some data first.				random seed 2001		
DB		Drag data or operators here.				send mail never		
Local Repository (USER)		Leverage the Wisdom of Crowds to get operator recommendations based on your process design!				encoding SYSTEM		
Cloud Repository (disconnected)		Activate Wisdom of Crowds				Hide advanced parameters		
Operators						Change compatibility (9.0.003)		
Data Access (50)						Activate Windows		
Blending (77)						Change compatibility (9.0.003)		
Cleansing (25)						Activate Windows		
Modeling (143)						Change compatibility (9.0.003)		
Scoring (12)						Activate Windows		
Validation (29)						Change compatibility (9.0.003)		
Utility (85)						Activate Windows		
Get more operators from the Marketplace						Change compatibility (9.0.003)		

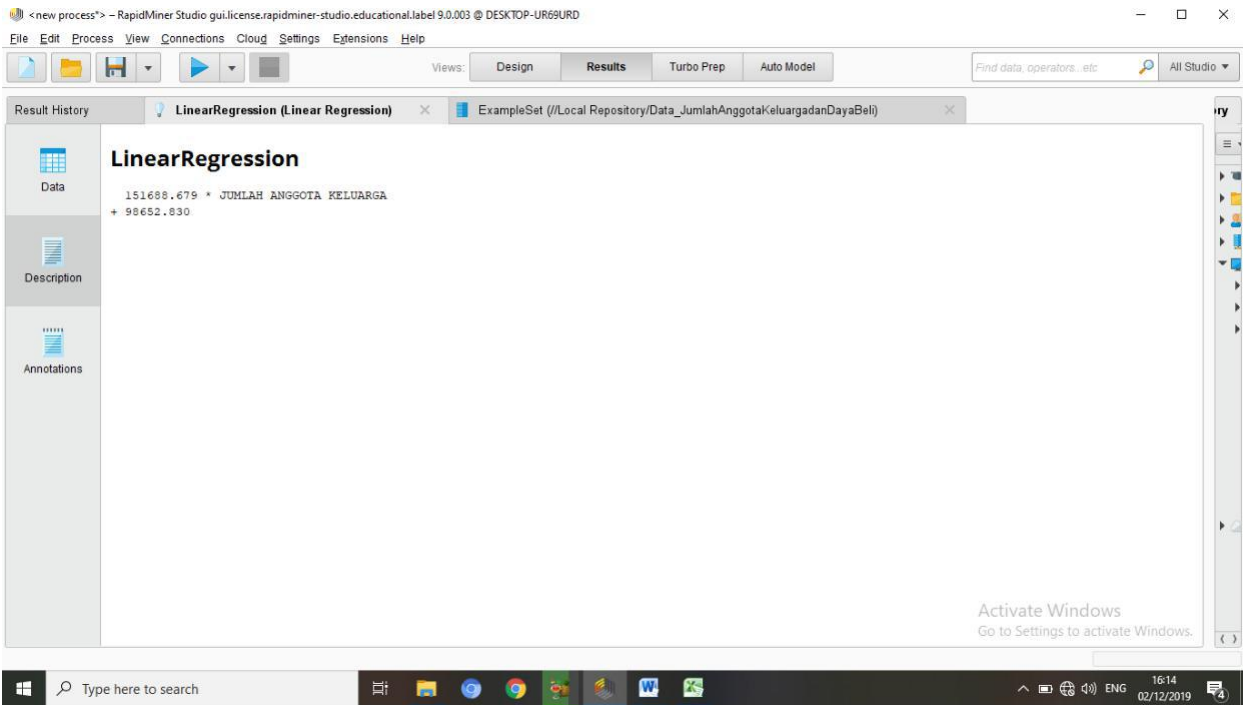


Hasil proses regresi linier :

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															
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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

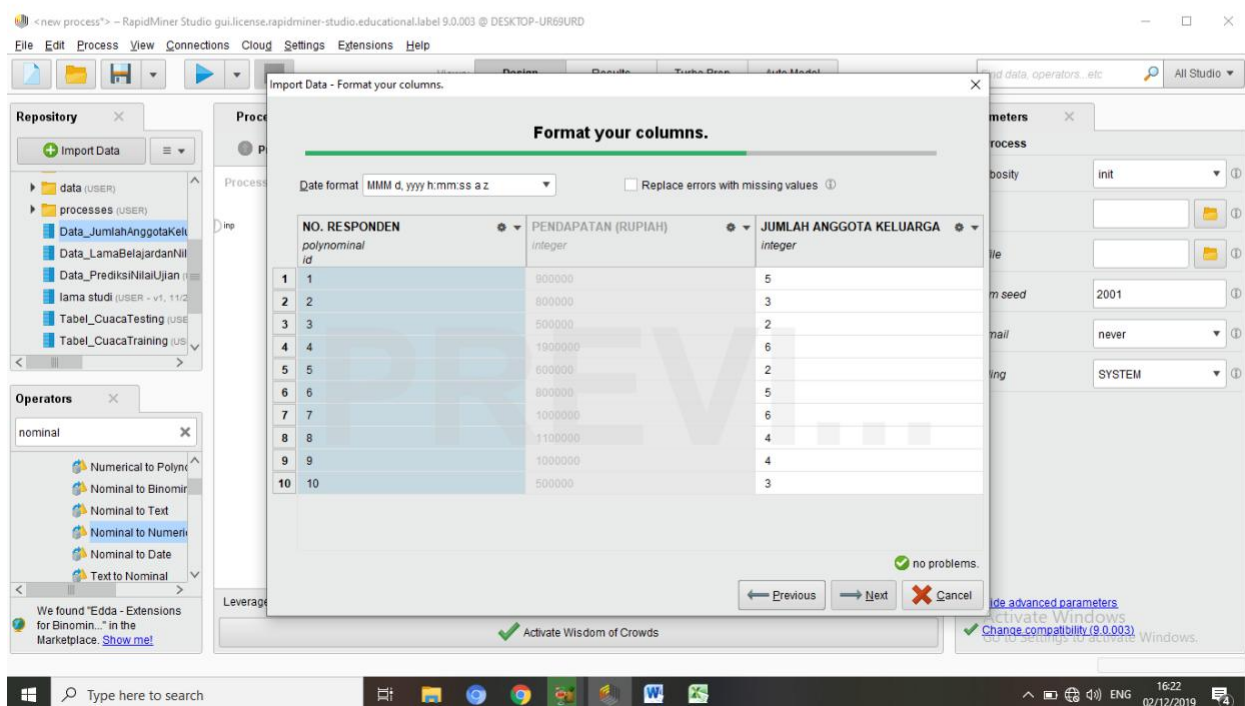
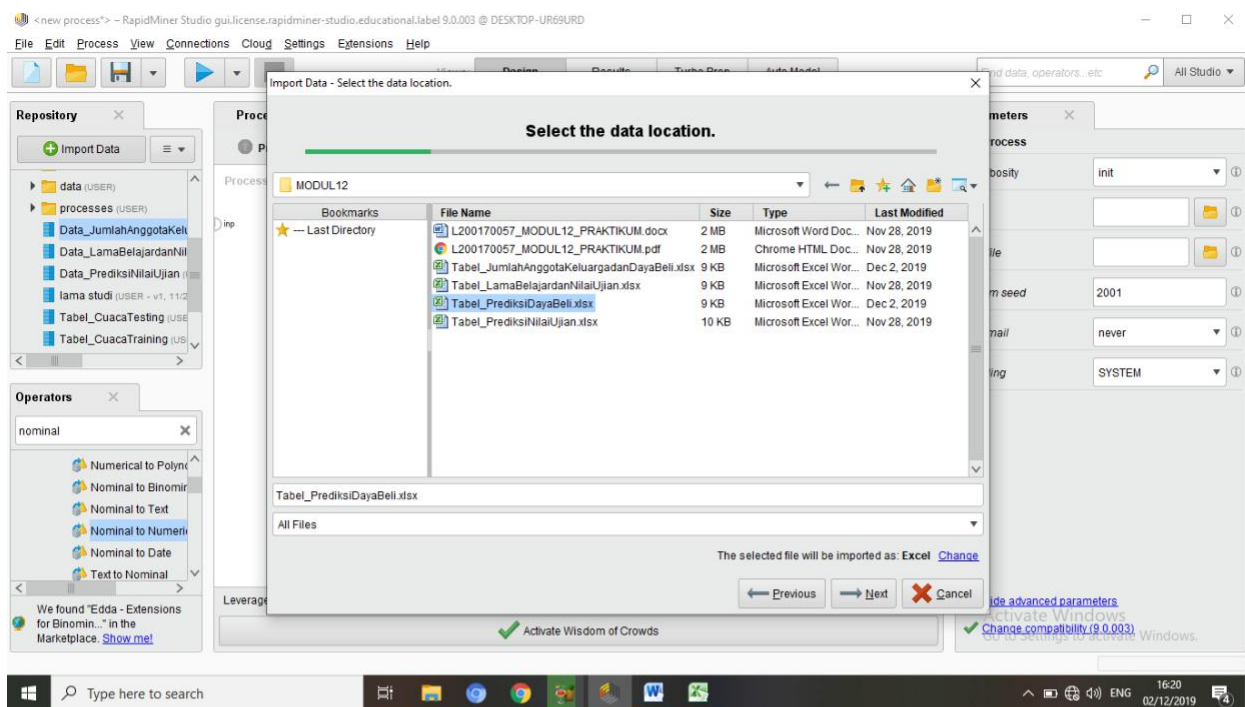
send mailnever

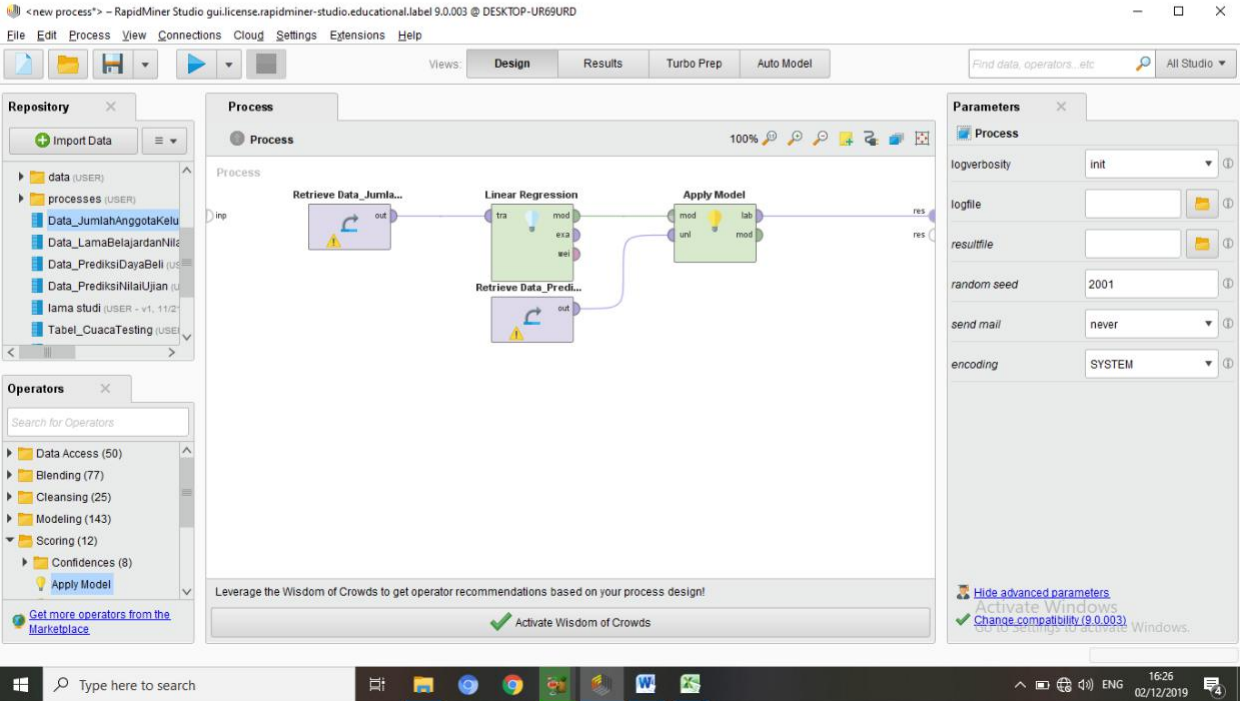
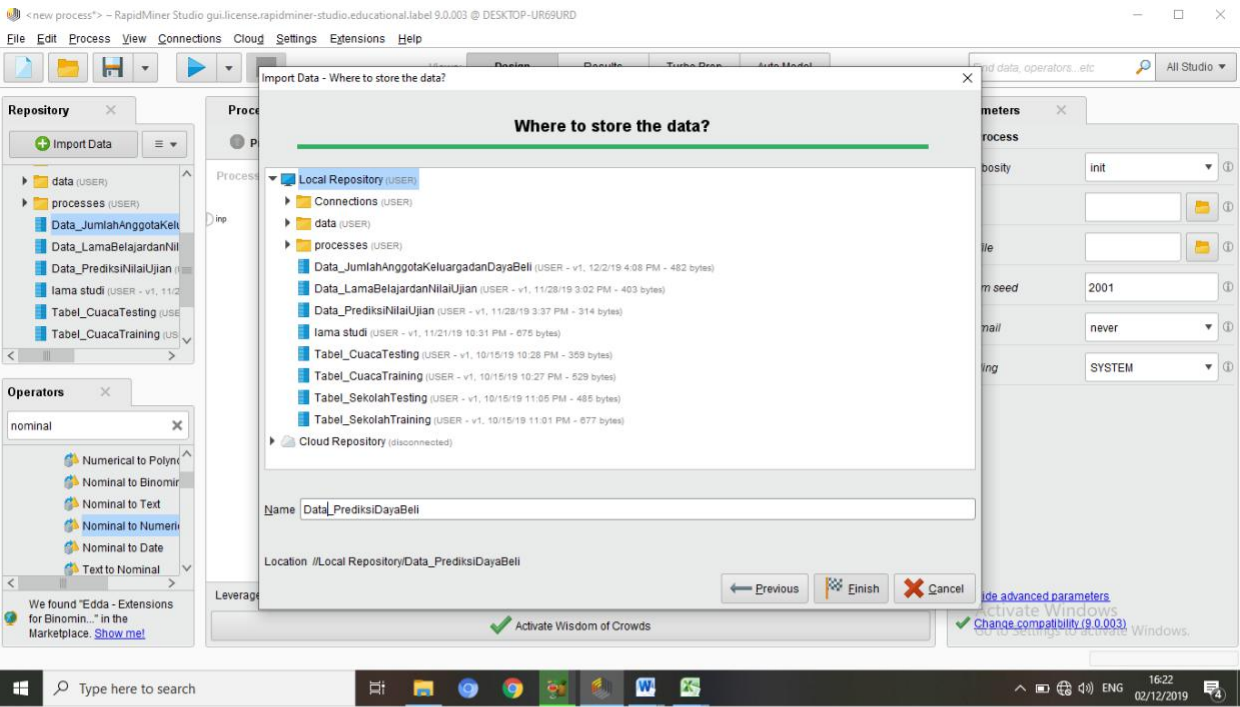
encodingSYSTEM

Hide advanced parameters

Activate Windows

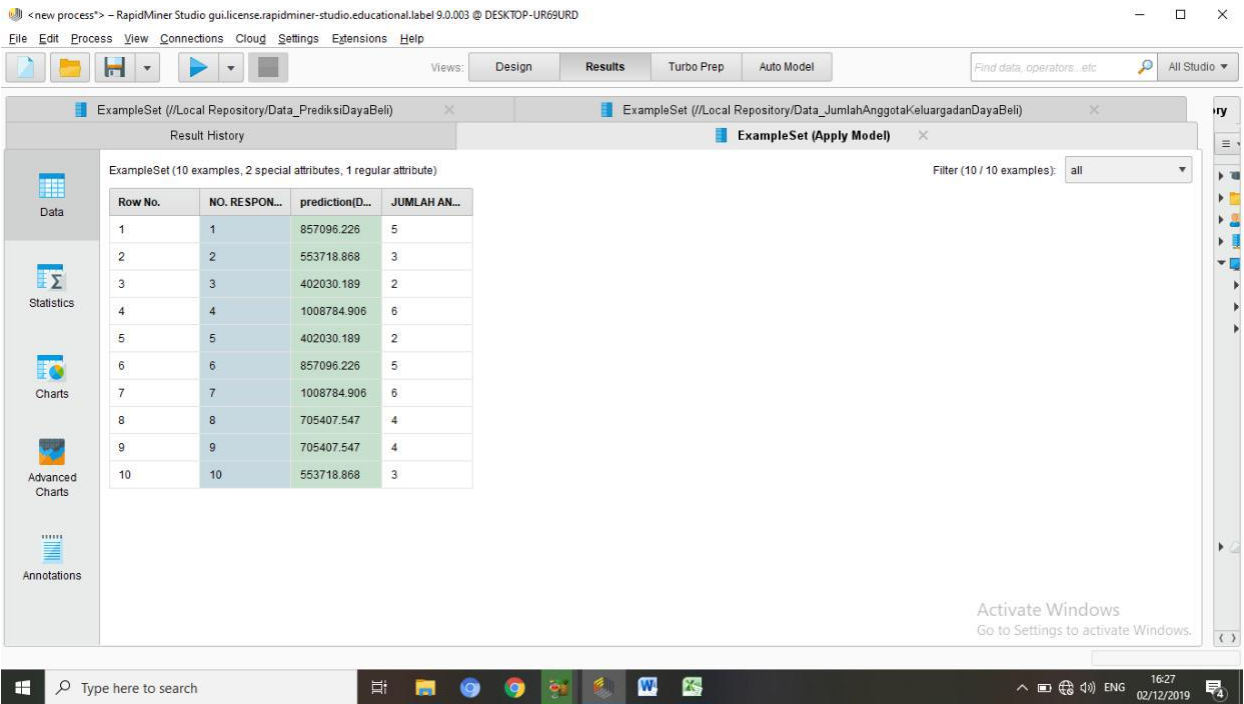
Change compatibility (9.0.003)





Hasil proses prediksi terhadap data testing menggunakan regresi linier :

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

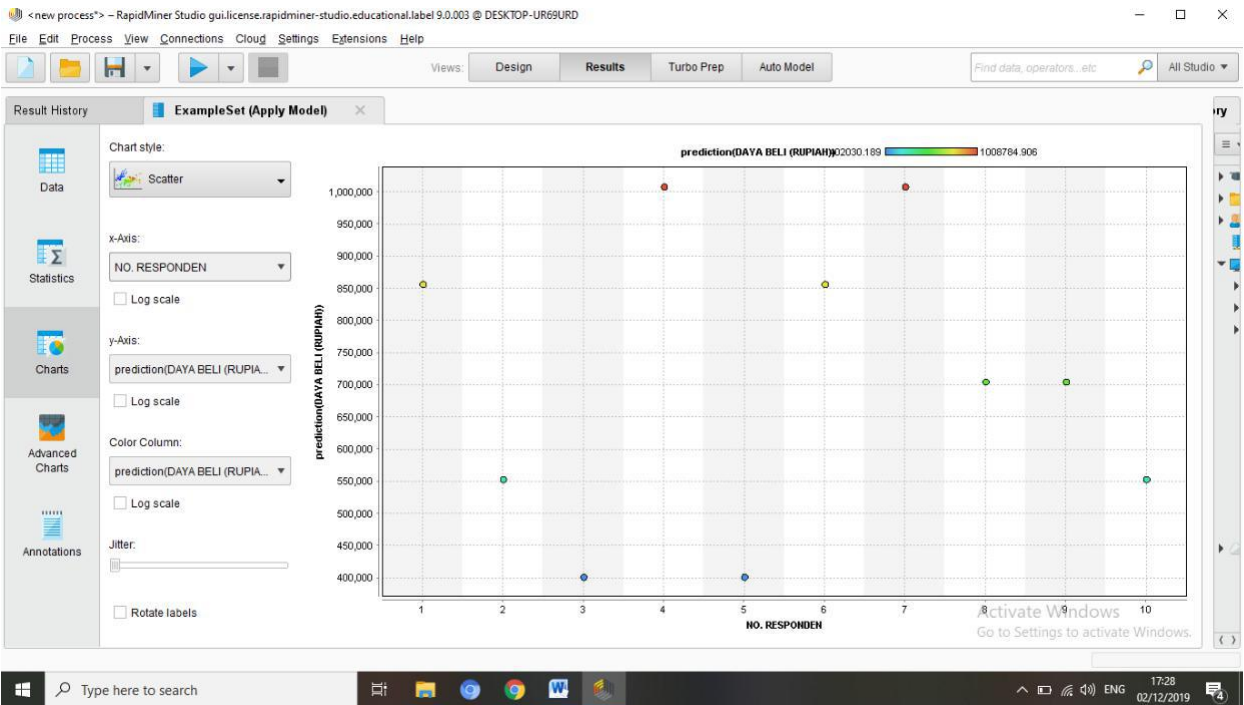


b) Charts View (Scatter Plot)

x-Axis = No. Responden,

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

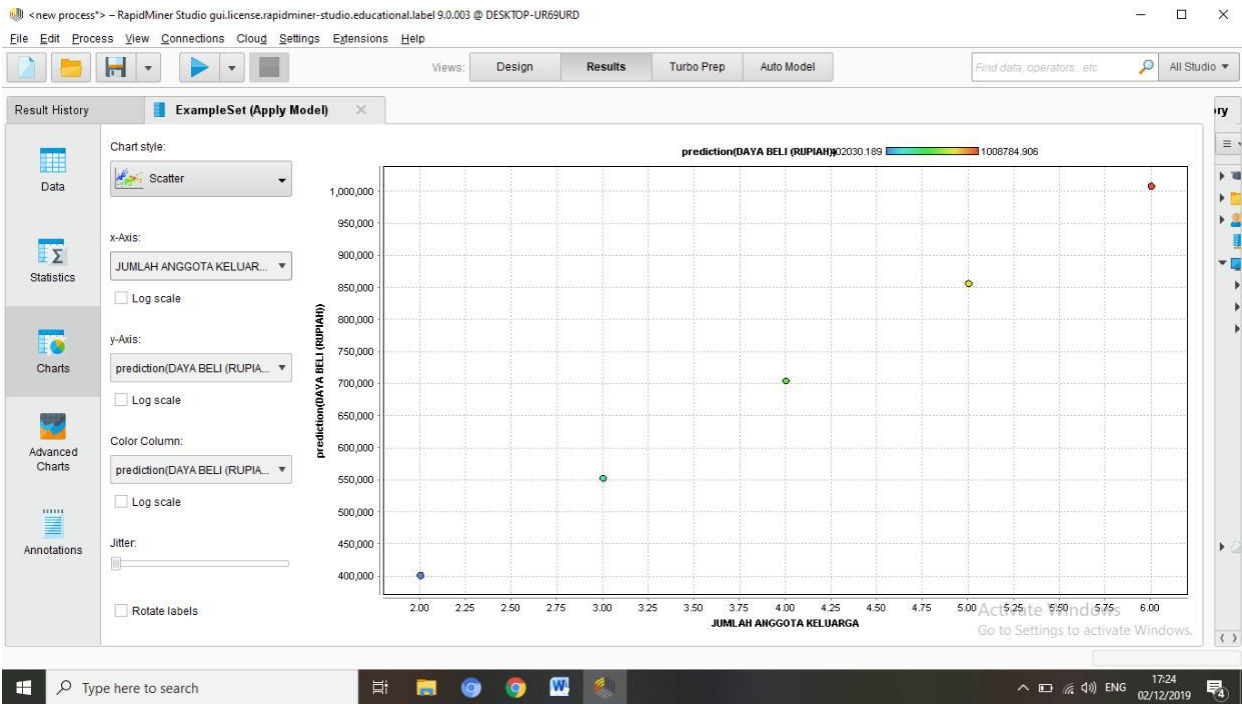
Color Column = Prediction (Daya Beli (Rupiah))



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 status bar at the bottom indicates 'Average: 705407,546 Count: 10 Sum: 7054075,46 100% 16:58 02/12/2019'.