

Nama : Tika Pratiwi

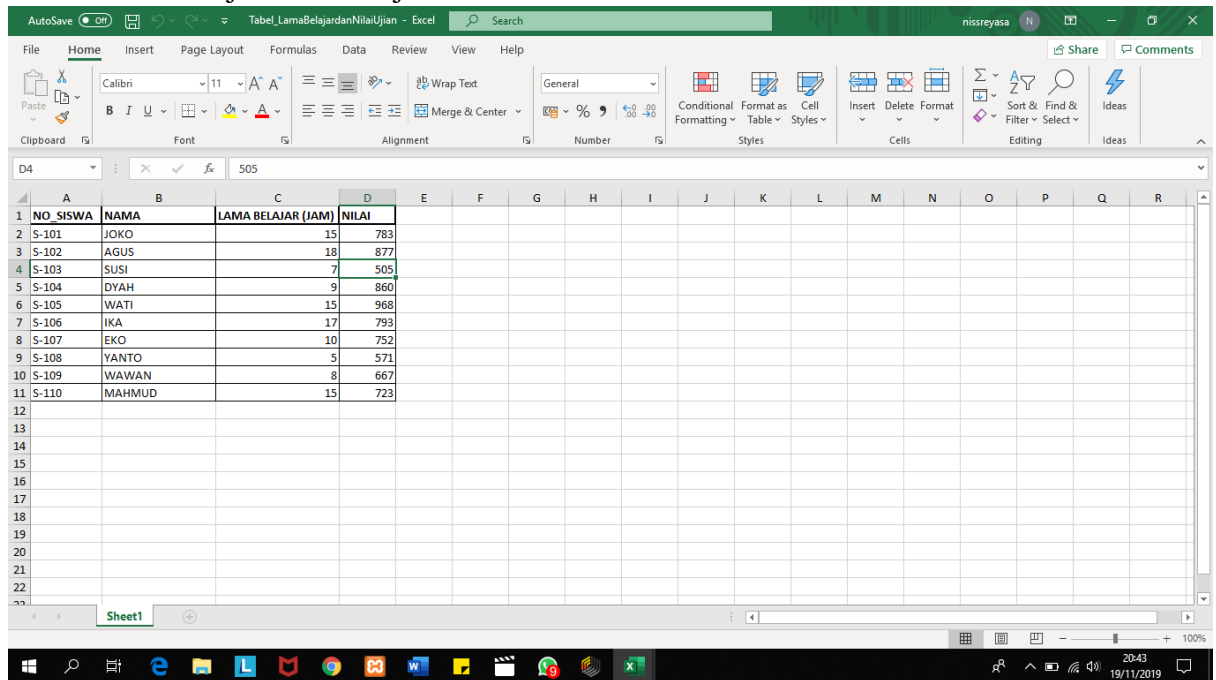
NIM : L200170046

Kelas : C

MODUL 12

Percobaan 1

1. Buka MS Excel dan buat table data berikut. Lalu simpan dengan nama Tabel_LamaBelajardanNilaiUjian.xlsx



The screenshot shows a Microsoft Excel spreadsheet with a table containing student data. The table has four columns: NO SISWA, NAMA, LAMA BELAJAR (IAM), and NILAI. The data is as follows:

NO SISWA	NAMA	LAMA BELAJAR (IAM)	NILAI
S-101	JOKO	15	783
S-102	AGUS	18	877
S-103	SUSI	7	505
S-104	DYAH	9	860
S-105	WATI	15	968
S-106	IKA	17	793
S-107	EKO	10	752
S-108	YANTO	5	571
S-109	WAWAN	8	667
S-110	MAHMUD	15	723

2. Jalankan aplikasi RapidMiner
3. Import file Tabel_LamaBelajardanNilaiUjian.xlsx ke dalam RapidMiner
4. Ubah tipe data dan jenis masing-masing atribut sebagai berikut :
 - a. NO_SISWA : polynomial, id
 - b. NAMA : pilih Exclude Coloumn
 - c. LAMA_BELAJAR : integer
 - d. NILAI : integer, label

Import Data - Format your columns.

Format your columns.

☐ Replace errors with missing values ⓘ

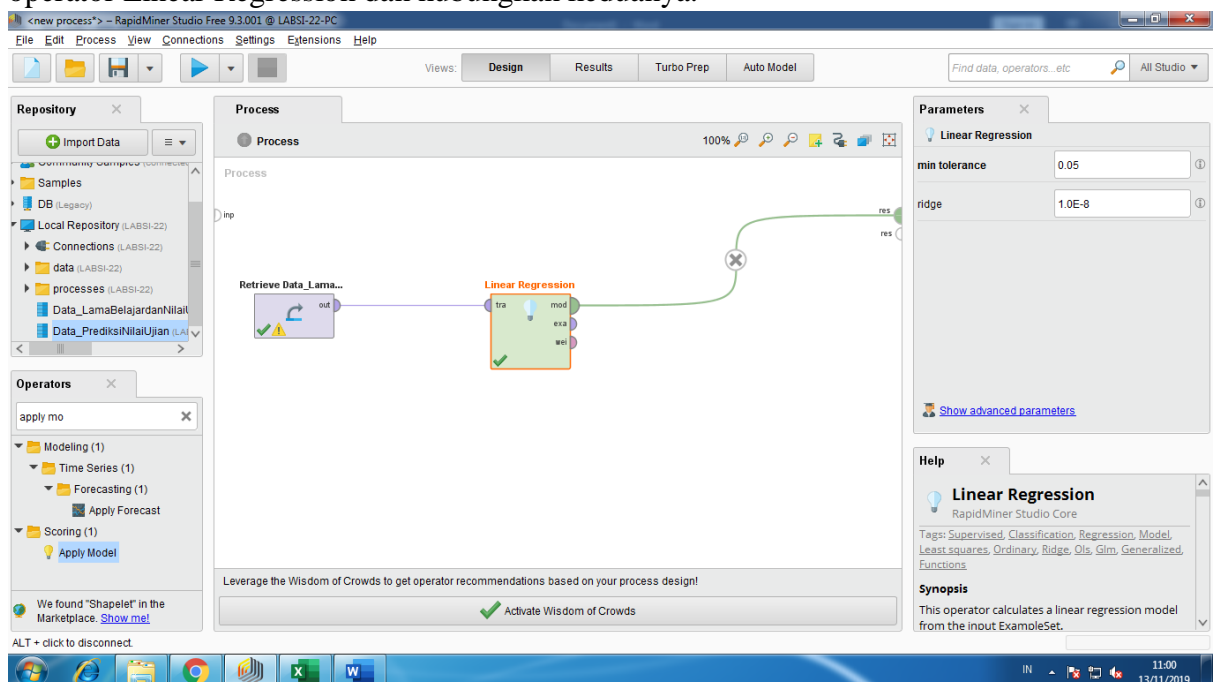
	NO_SISWA <i>polynomial id</i>	NAMA <i>polynomial</i>	LAMA BELAJAR (JAM) <i>integer</i>	NILAI <i>integer label</i>
1	S-101	JOKO	15	783
2	S-102	AGUS	18	877
3	S-103	SUSI	7	505
4	S-104	DYAH	9	860
5	S-105	WATI	15	968
6	S-106	IKA	17	793
7	S-107	EKO	10	752
8	S-108	YANTO	5	571
9	S-109	WAWAN	8	667
10	S-110	MAHMUD	15	723

no problems.

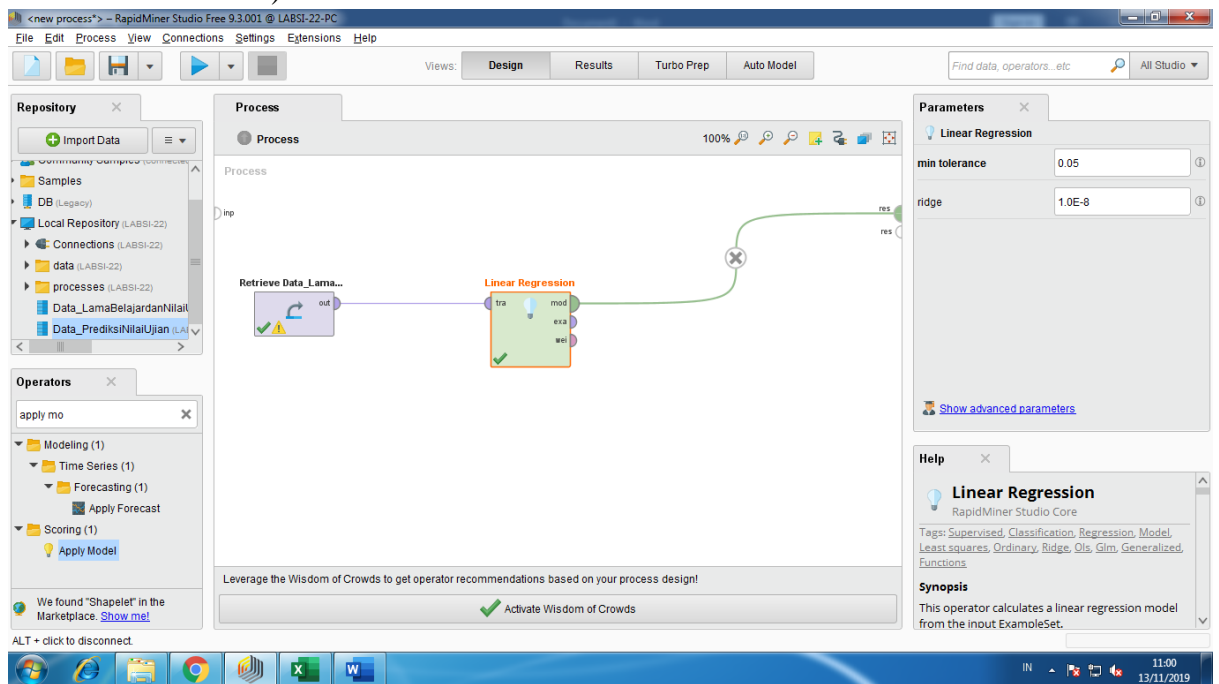
Previous Next Cancel

Kemudian klik Finish lalu simpan dengan nama Data_LamaBelajardanNilaiUjian

- Masukkan Data_LamaBelajardanNilaiUjian ke dalam area process. Kemudian cari operator Linear Regression dan hubungkan keduanya.



6. Klik operator Linear Regression, tentukan parameter min tolerance = 0.05 (batas toleransi sebesar 5%). Lalu klik F11 atau Run.



7. Hasil :

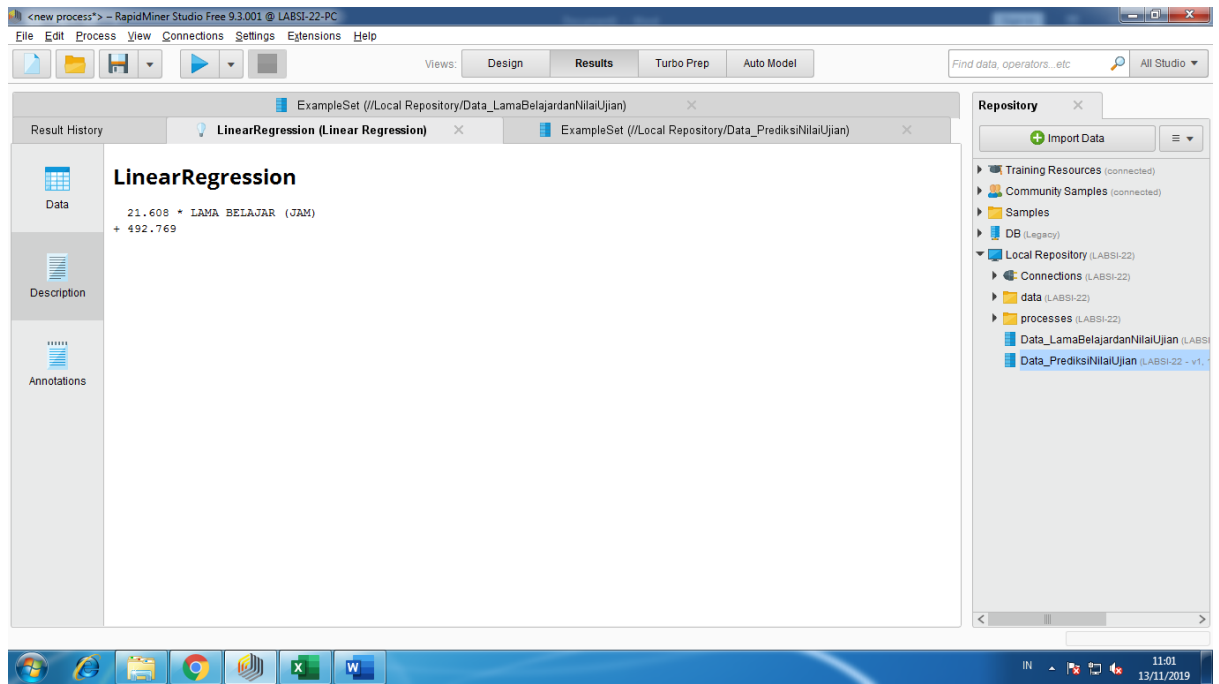
- a. Table View

The screenshot shows the 'Results' view of RapidMiner Studio. The 'LinearRegression (Linear Regression)' operator is selected, and its results are displayed in a table. The table has columns for Attribute, Coefficient, Std. Error, Std. Coefficient, Tolerance, t-Stat, p-Value, and Code. The results are as follows:

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
LAMA BELAJAR (...)	21.608	7.645	0.707	1	2.827	0.022	**
(Intercept)	492.769	96.909	?	?	5.085	0.001	****

The bottom status bar shows the date and time as 11:01 on 13/11/2019.

- b. Text View



Percobaan 2

1. Buka MS Excel dan buat table data berikut. Lalu simpan dengan nama Tabel_PrediksiNilaiUjian.xlsx

NO_SISWA	NAMA	LAMA BELAJAR (JAM)
S-111	BUDI	12
S-112	SANTI	13
S-113	DIAN	14
S-114	DANI	11
S-115	AHMAD	5
S-116	BAYU	13
S-117	RISA	9
S-118	RANI	10
S-119	YANI	10
S-120	RATIH	9

2. Jalankan aplikasi RapidMiner
3. Import file Tabel_PrediksiNilaiUjian.xlsx ke RapidMiner
8. Ubah tipe data dan jenis masing-masing atribut sebagai berikut :
 - a. NO_SISWA : polynomial, id
 - b. NAMA : pilih Exclude Coloumn
 - c. LAMA_BELAJAR : integer

Format your columns.

☐ Replace errors with missing values ⓘ

	NO_SISWA <i>polynomial id</i>	NAMA <i>polynomial</i>	LAMA BELAJAR (JAM) <i>integer</i>
1	S-111	BUDI	12
2	S-112	SANTI	13
3	S-113	DIAN	14
4	S-114	DANI	11
5	S-115	AHMAD	5
6	S-116	BAYU	13
7	S-117	RISA	9
8	S-118	RANI	10
9	S-119	YANI	10
10	S-120	RATIH	9

no problems.

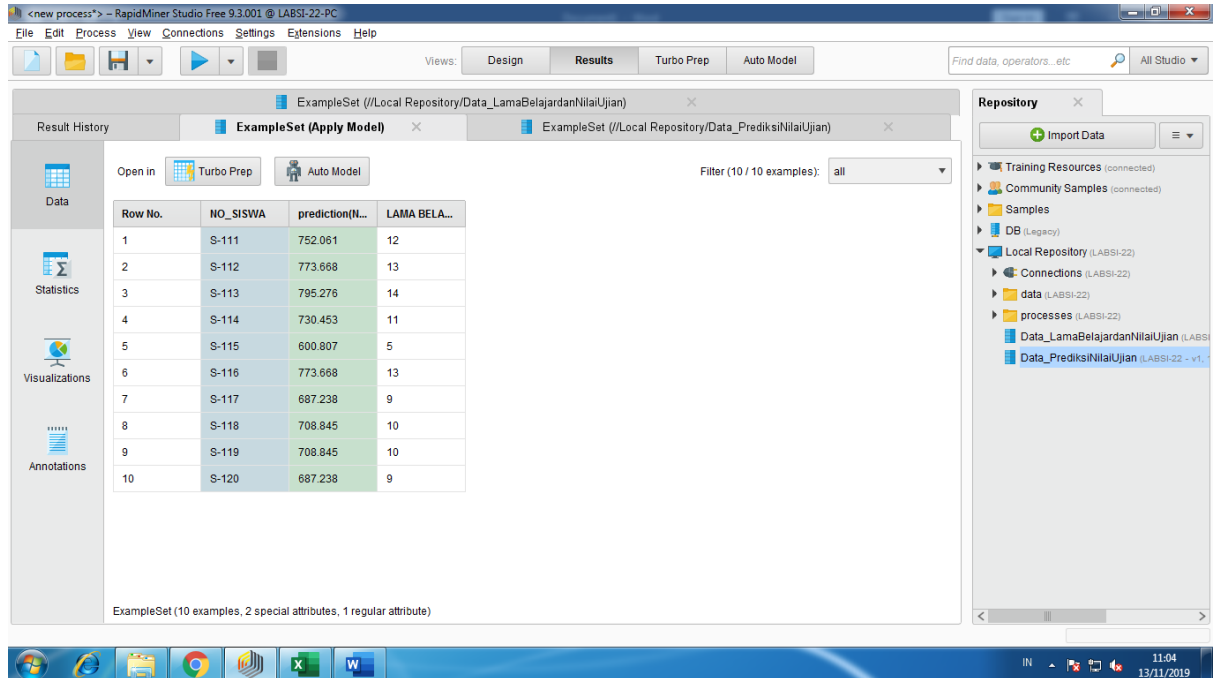
Previous
 Next
 Cancel

Kemudian klik Finish lalu simpan dengan nama Data_PrediksiNilaiUjian

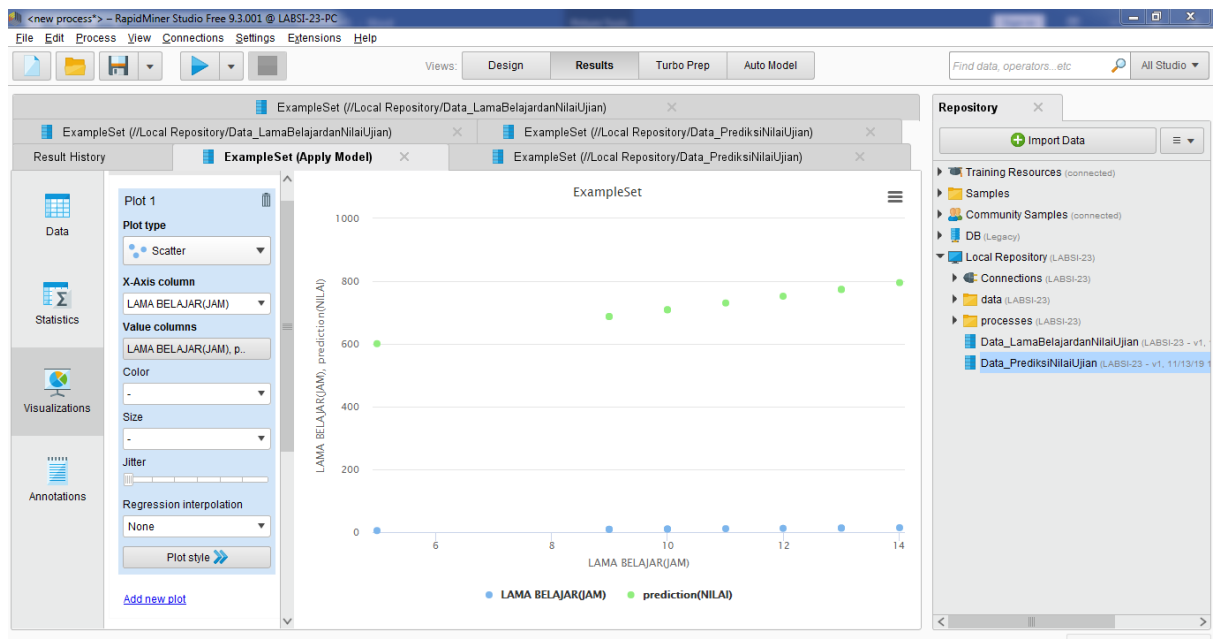
- Masukkan Data_PrediksiNilaiUjian ke dalam area process. Kemudian cari operator Linear Regression dan Apply Model lalu hubungkan semuanya seperti gambar berikut.

The screenshot shows the RapidMiner Studio interface. The main workspace displays a workflow diagram with three operators: 'Retrieve Data_Lama...', 'Linear Regression', and 'Apply Model'. The 'Retrieve Data_Lama...' operator is connected to the 'Linear Regression' operator, which is then connected to the 'Apply Model' operator. The 'Apply Model' operator has two output ports labeled 'res' and 'mod'. The 'Linear Regression' operator has a 'mod' port. The 'Retrieve Data_Predi...' operator is also visible in the workspace. The interface includes a Repository panel on the left with a tree view showing 'Samples', 'DB (Legacy)', 'Local Repository (LABSI-22)', 'Connections (LABSI-22)', 'data (LABSI-22)', and 'processes (LABSI-22)'. The 'Operators' panel on the left shows a search for 'apply mo' and lists 'Modeling (1)', 'Time Series (1)', 'Forecasting (1)', and 'Scoring (1)'. The 'Parameters' panel on the right shows the 'Process' operator with 'logverbosity' set to 'init' and 'logfile' set to an empty field. The 'Help' panel on the right shows the 'Process' operator description.

5. Klik operator Linear Regression, tentukan parameter min tolerance = 0.05 (batas toleransi sebesar 5%). Lalu klik F11 atau Run.
6. Hasil
 - a. Data View



- b. Charts View



Percobaan 3

Pada sel E3 masukkan formula $=21,608 \cdot C3 + 492,769$ maka akan keluar nilai dari Model Regresi seperti table berikut :

Tabel_PrediksiNilaiUjian - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Editing

Conditional Formatting Styles

Format as Table

Cell Styles

Insert Cells

Delete

Format

AutoSum

Fill

Sort & Filter

Find & Select

Clear

Editing

E3 =21,608*C3+492,769

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	NO_SISWA	NAMA	LAMA BELAJAR (JAM)	Prediction (NILAI) Tabel	Prediction (NILAI) Model Regresi											
2	S-111	BUDI	12	752,061	752,065											
3	S-112	SANTI	13	773,668	773,673											
4	S-113	DIAN	14	795,276	795,281											
5	S-114	DANI	11	730,453	730,457											
6	S-115	AHMAD	5	600,807	600,809											
7	S-116	BAYU	13	773,668	773,673											
8	S-117	RISA	9	687,238	687,241											
9	S-118	RANI	10	708,845	708,849											
10	S-119	YANI	10	708,845	708,849											
11	S-120	RATIH	9	687,238	687,241											
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																

Sheet1

Ready

Average: 721,818 Count: 10 Sum: 7218,138

11:24 13/11/2019