Nama : Robby Nugroho Setiawan.

Nim : L200170179

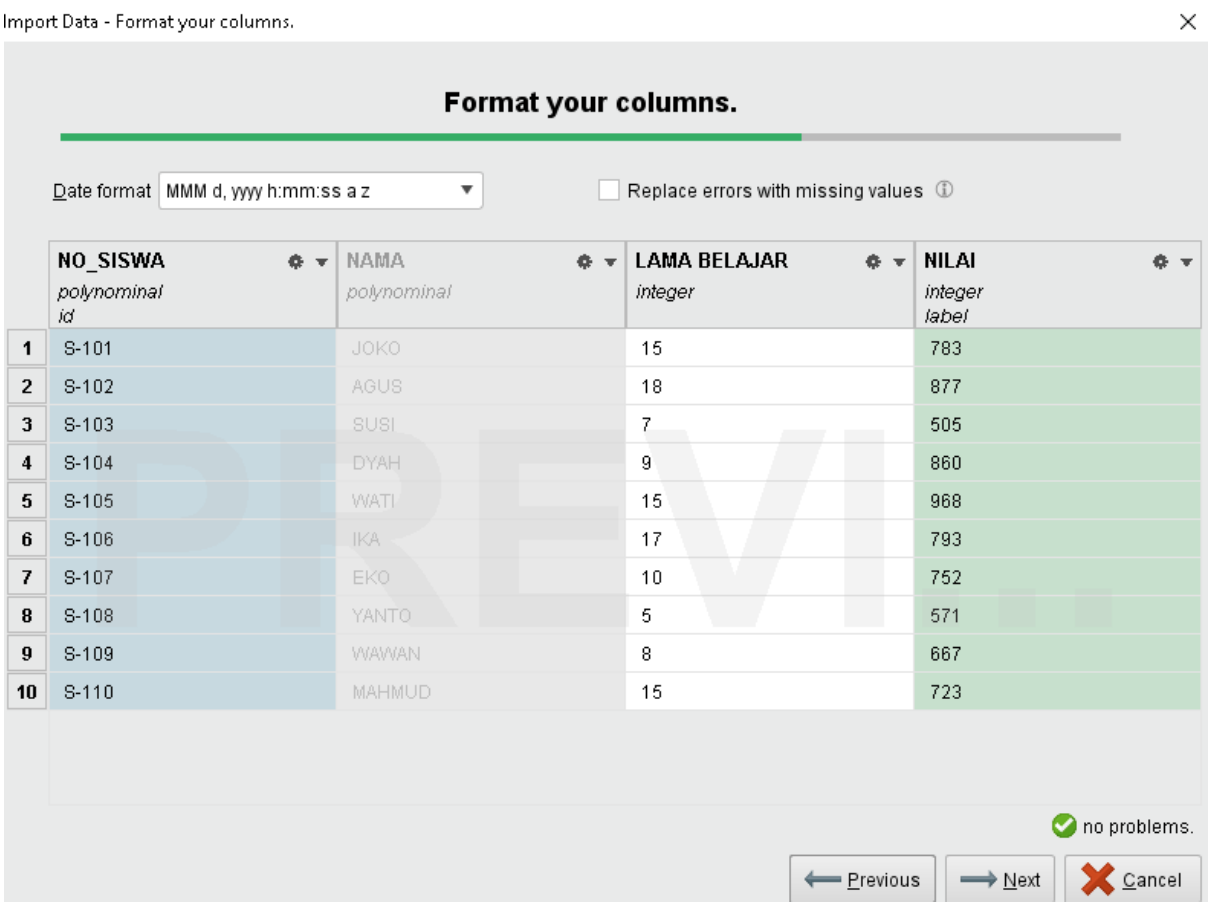
Kelas : E – Prak.DWDM

Modul 12

Membuat Tabel data siswa

A	B	C	D
NO_SISWA	NAMA	LAMA BELAJAR	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

Buat di RapidMinier



Hasil

Row No.	NO_SISWA	NILAI	LAMA BELA...
1	S-101	783	15
2	S-102	877	18
3	S-103	505	7
4	S-104	860	9
5	S-105	968	15
6	S-106	793	17
7	S-107	752	10
8	S-108	571	5
9	S-109	667	8
10	S-110	723	15

Hasil dari Linier Regression, berikut proses regresi linier :

a) Tabel View

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	***

b) Text View

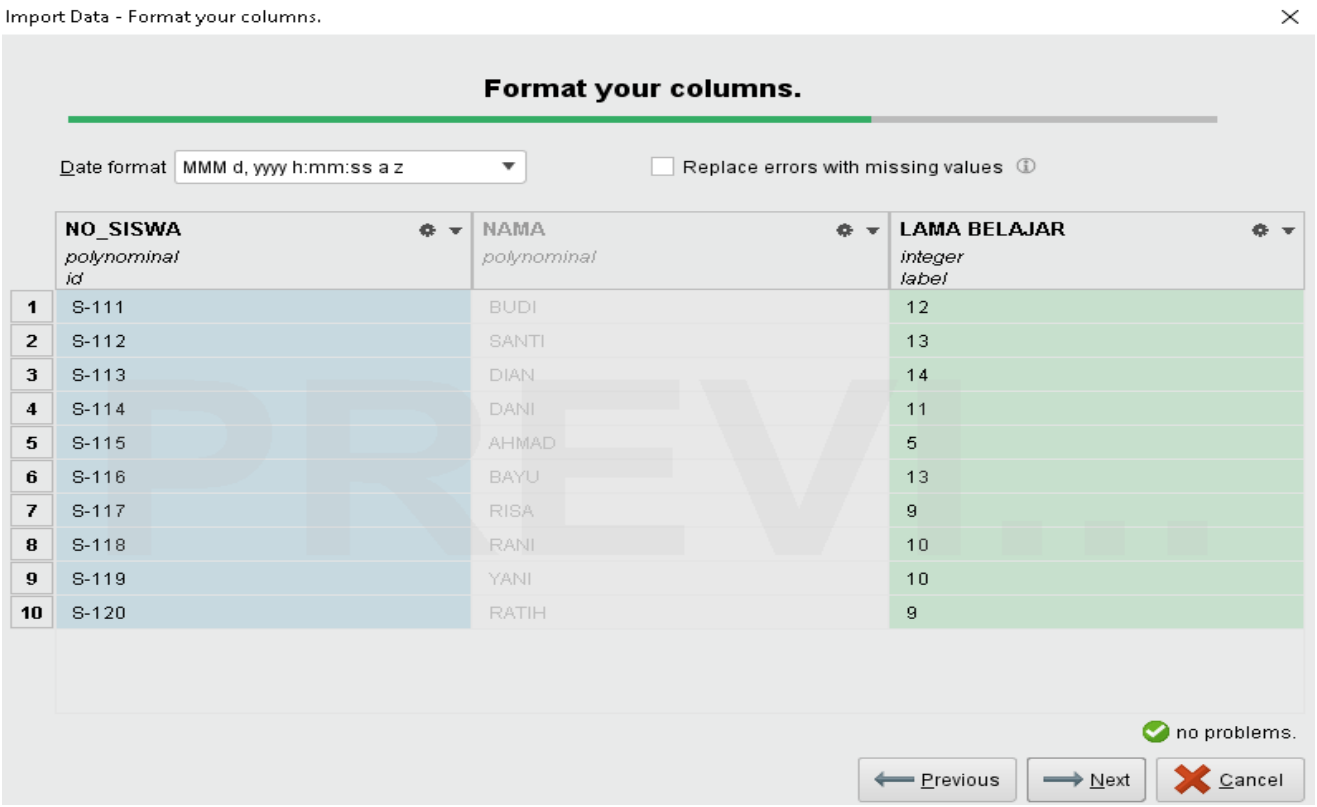
LinearRegression

```
  21.608 * LAMA BELAJAR
+ 492.769
```

Membuat data prediksi nilai

NO_SISWA	NAMA	LAMA BELAJAR
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

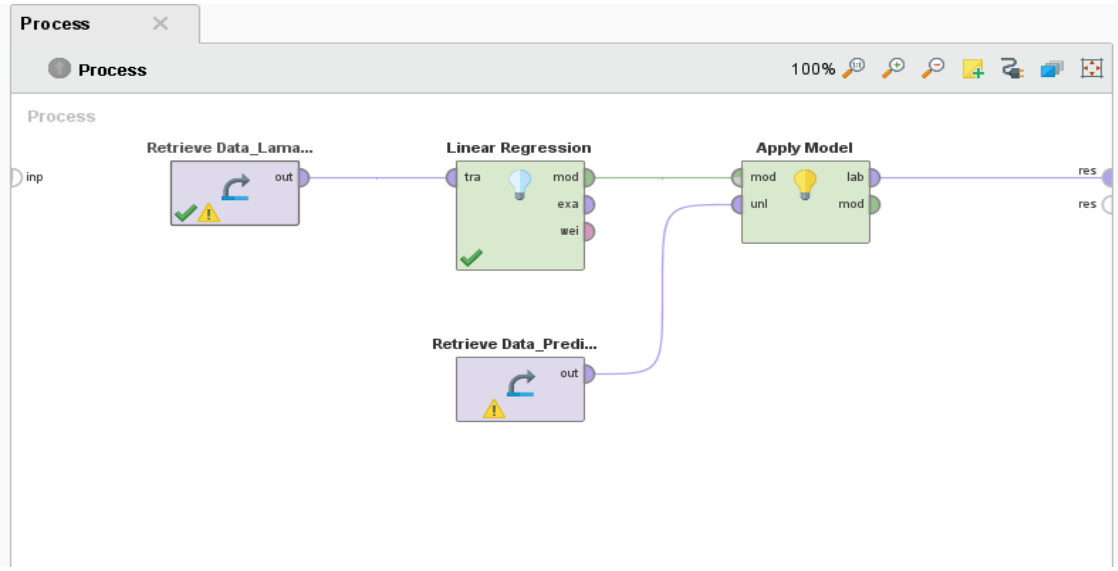
Buat di RapidMinier



ExampleSet (10 examples, 2 special attributes, 0 regular attributes)

Row No.	NO_SISWA	LAMA BELA...
1	S-111	12
2	S-112	13
3	S-113	14
4	S-114	11
5	S-115	5
6	S-116	13
7	S-117	9
8	S-118	10
9	S-119	10
10	S-120	9

Masukan operator ke area prosess

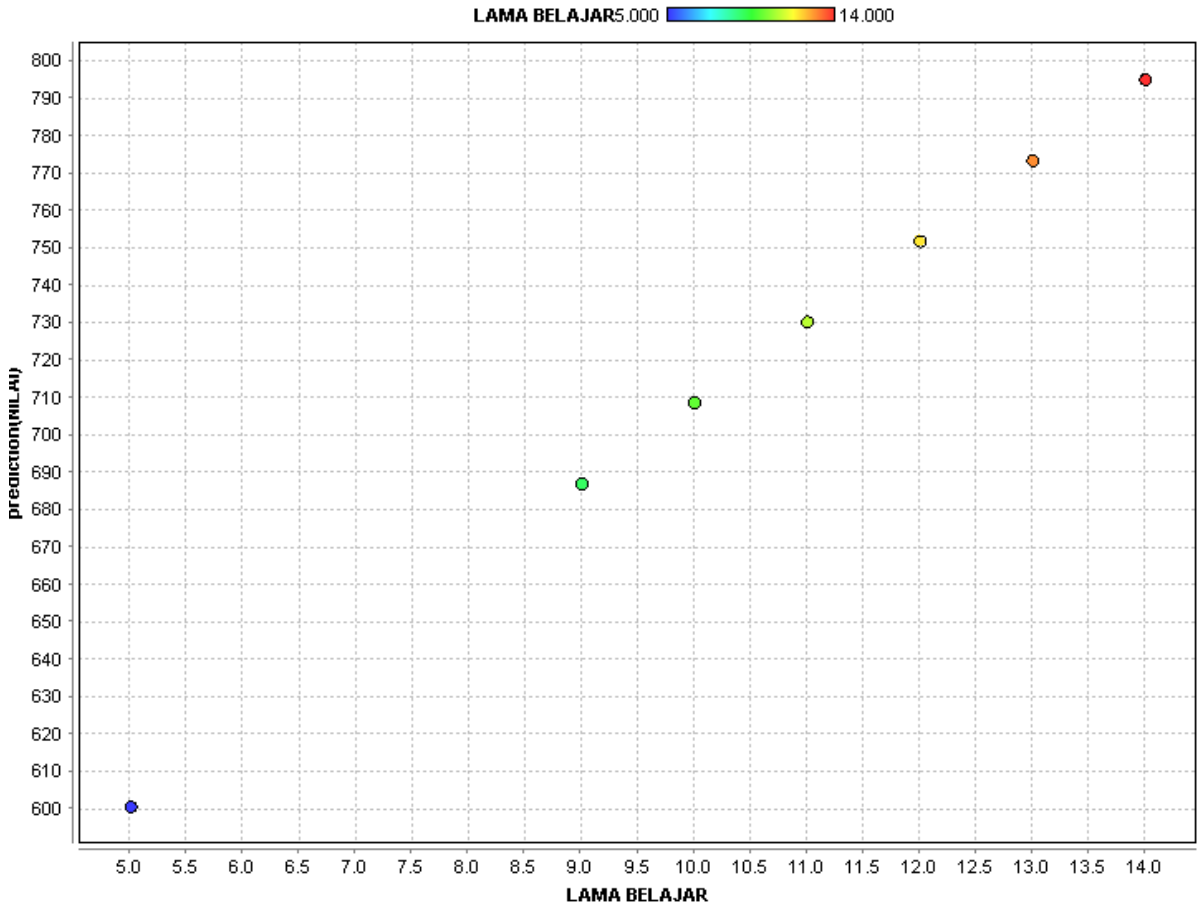


a) Hasil data view prediksi

ExampleSet (10 examples, 3 special attributes, 0 regular attributes)

Row No.	NO_SISWA	LAMA BELA...	prediction(N...
1	S-111	12	752.061
2	S-112	13	773.668
3	S-113	14	795.276
4	S-114	11	730.453
5	S-115	5	600.807
6	S-116	13	773.668
7	S-117	9	687.238
8	S-118	10	708.845
9	S-119	10	708.845
10	S-120	9	687.238

b) Chart view



Pembuktian Model Regresi, dengan menggunakan rumus "**Y = 21,608 X_1 + 492,769".**
Lalu mencari Model Regresi dengan formula '=(21,608*C3)+492,769'.

NO_SISWA	NAMA	LAMA BELAJAR	Prediksi Tabel	Prediksi Model Regresi
S-111	BUDI	12	752,061	752,065
S-112	SANTI	13	773,668	773,673
S-113	DIAN	14	795,276	795,281
S-114	DANI	11	730,453	730,457
S-115	AHMAD	5	600,807	600,809
S-116	BAYU	13	773,668	773,673
S-117	RISA	9	687,238	687,241
S-118	RANI	10	708,845	708,849
S-119	YANI	10	708,845	708,849
S-120	RATIH	9	687,238	687,241

TUGAS

1. Buat tabel

NO. RESPONDEN	PENDAPATAN	JUMLAH ANGGOTA KELUARGA	DAYA BELI
1	1000000	6	834000
2	1400000	7	1200000
3	200000	3	134000
4	1400000	6	1167000
5	500000	3	334000
6	1700000	5	1360000
7	400000	3	267000
8	1900000	5	1520000
9	300000	3	200000
10	500000	4	375000
11	700000	7	600000
12	1900000	3	1267000
13	800000	4	600000
14	1500000	4	1125000
15	1300000	7	1115000

2. Hasil proses Regresi Linier
   a) Table View

Attribute	Coefficient	Std. Error	Std. Coefficient	Tolerance	t-Stat	p-Value	Code
PENDAPATAN	0.739	0.021	0.924	0.857	35.037	0	****
JUMLAH ANGGO...	47807.624	7833.319	0.161	0.857	6.103	0.000	****
(Intercept)	-180222.487	36497.284	?	?	-4.938	0.000	****

   b) Text view

LinearRegression

```
  0.739 * PENDAPATAN
+ 47807.624 * JUMLAH ANGGOTA KELUARGA
- 180222.487
```

3. Memasukan rumus Linear Regression “0,739 X_1+47807,624 X_2-180222,487”

E16 =0,739*B16+47807,624*C16-180222,487

	A	B	C	D	E
1	NO. RESPONDEN	PENDAPATAN	JUMLAH ANGGOTA KELUARGA	DAYA BELI	Linear Regression
2	1	1000000	6	834000	845623,257
3	2	1400000	7	1200000	1189030,881
4	3	200000	3	134000	111000,385
5	4	1400000	6	1167000	1141223,257
6	5	500000	3	334000	332700,385
7	6	1700000	5	1360000	1315115,633
8	7	400000	3	267000	258800,385
9	8	1900000	5	1520000	1462915,633
10	9	300000	3	200000	184900,385
11	10	500000	4	375000	380508,009
12	11	700000	7	600000	671730,881
13	12	1900000	3	1267000	1367300,385
14	13	800000	4	600000	602208,009
15	14	1500000	4	1125000	1119508,009
16	15	1300000	7	1115000	1115130,881

4. Model persamaan regresi linier sederhana

ExampleSet (10 examples, 1 special attribute, 2 regular attributes)

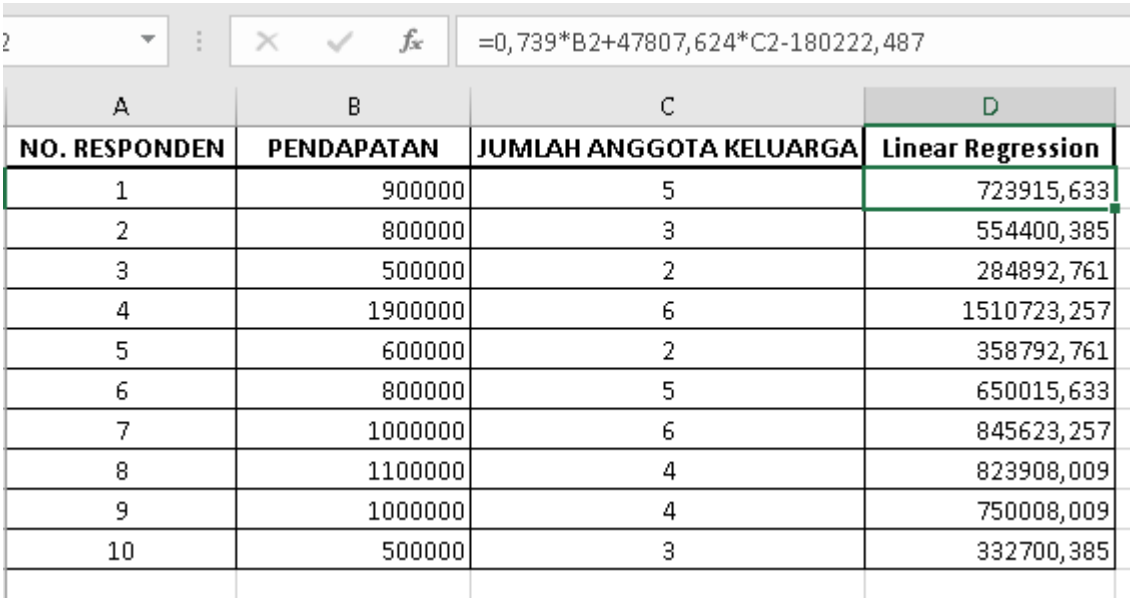
Row No.	NO. RESPON...	PENDAPATAT	JUMLAH AN...
1	1	900000	5
2	2	800000	3
3	3	500000	2
4	4	1900000	6
5	5	600000	2
6	6	800000	5
7	7	1000000	6
8	8	1100000	4
9	9	1000000	4
10	10	500000	3

5. a) Hasil Data view testing secara RapidMinier

ExampleSet (10 examples, 2 special attributes, 2 regular attributes)

Row No.	NO. RESPON...	prediction(D...	PENDAPATAN	JUMLAH AN...
1	1	723933.263	900000	5
2	2	554416.056	800000	3
3	3	284902.556	500000	2
4	4	1510760.476	1900000	6
5	5	358804.515	600000	2
6	6	650031.304	800000	5
7	7	845642.845	1000000	6
8	8	823929.557	1100000	4
9	9	750027.598	1000000	4
10	10	332710.179	500000	3

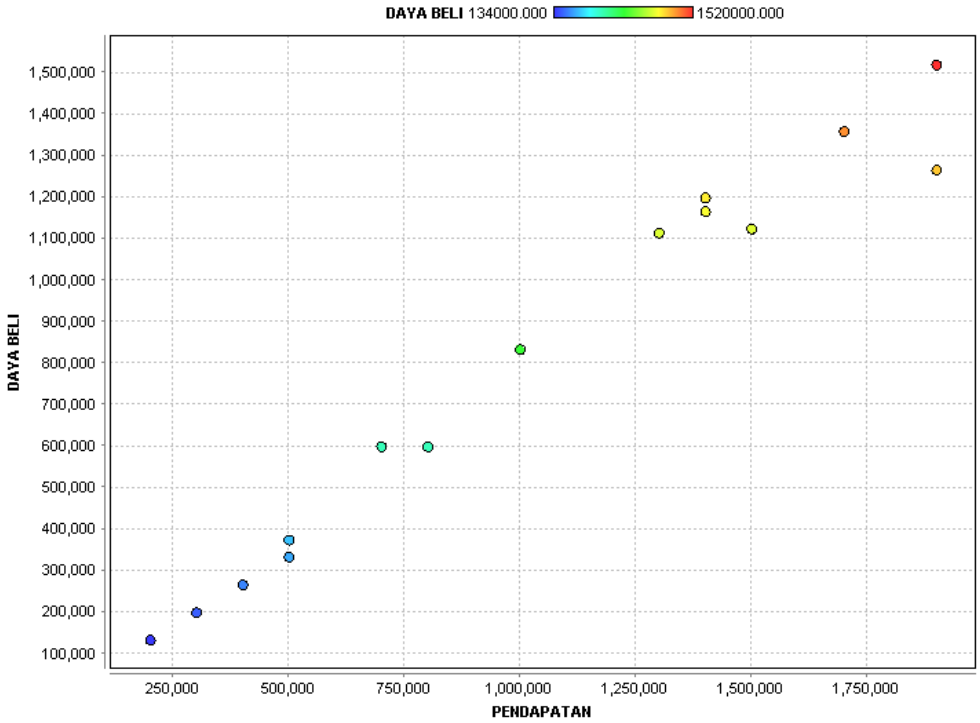
b). Hasil Data view testing secara Excel



=0,739*B2+47807,624*C2-180222,487

	A	B	C	D
	NO. RESPONDEN	PENDAPATAN	JUMLAH ANGGOTA KELUARGA	Linear Regression
1	1	900000	5	723915,633
2	2	800000	3	554400,385
3	3	500000	2	284892,761
4	4	1900000	6	1510723,257
5	5	600000	2	358792,761
6	6	800000	5	650015,633
7	7	1000000	6	845623,257
8	8	1100000	4	823908,009
9	9	1000000	4	750008,009
10	10	500000	3	332700,385

6. Plot view
   a) Pendapatan dari Daya Beli



   b) Jml.Anggota dari Daya Beli