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Class : X

Practicum Report Module 12

Find the Value of 't-hitung' and Linear Regression Model

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

1. Import the data Tabel_LamaBelajardanNilaiUjian.xls

Import Data - Format your columns.

Format your columns.

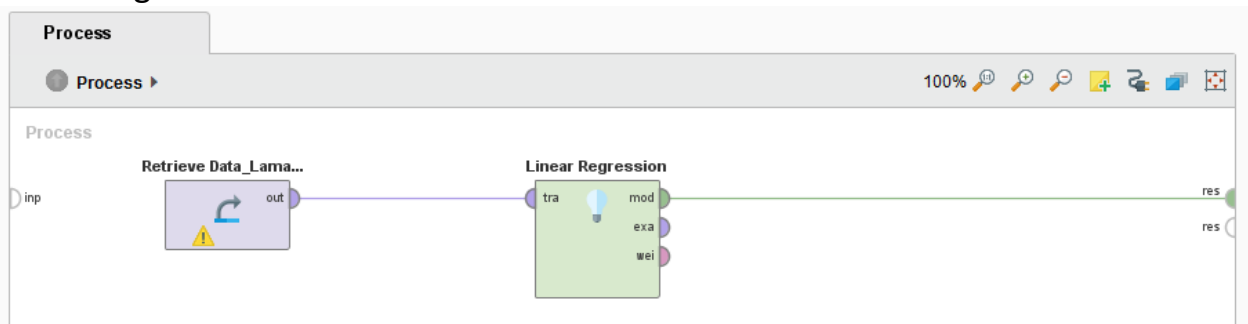
☐ Replace errors with missing values ⓘ

	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

2. Modelling the Process



3. Run the Process

4. Result of Data 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	****

5. Result of Text View

LinearRegression

$21.608 * \text{LAMA BELAJAR (JAM)}$
 $+ 492.769$

Find the Value of 't' and Linear Regression Model with RapidMiner

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

1. Import the data Tabel_PrediksiNilaiUjian.xls

Import Data - Format your columns.

Format your columns.

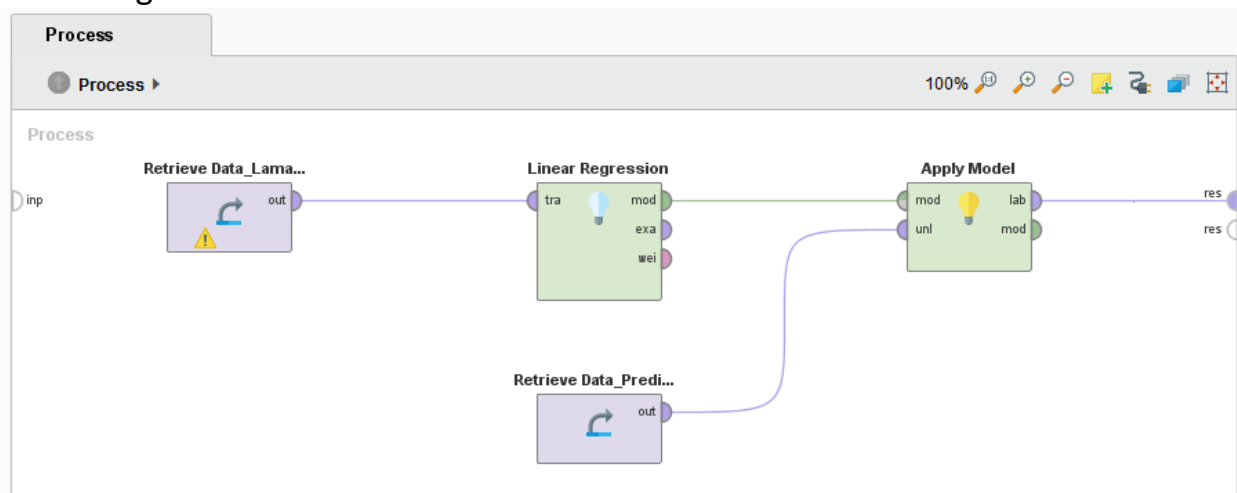
☐ Replace errors with missing values ⓘ

	NO_SISWA <i>polynomial id</i>	NAMA <i>polynomial</i>	LAMA BELAJAR (JAM) <i>integer</i>
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

2. Modelling the Process



3. Run the Process

4. Result of Data View

Open in



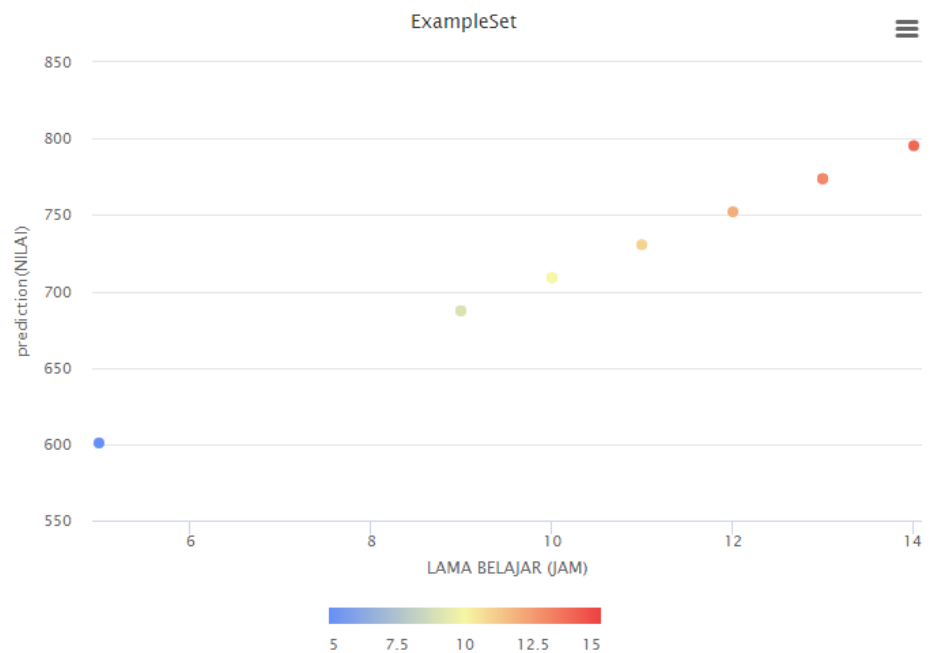
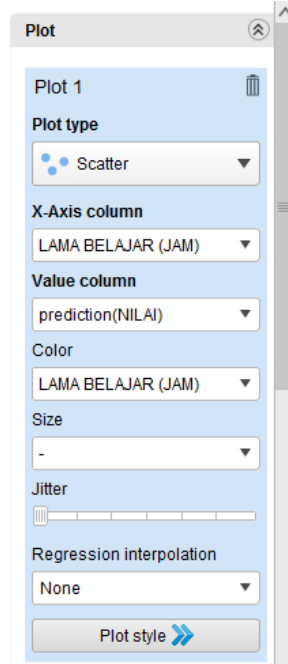
Turbo Prep



Auto Model

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

5. Result of Charts View



Proof of the Regression Model

	A	B	C	D	E
1	NO_SISWA	NAMA	LAMA BELAJAR (JAM)	Prediction (Nilai Tabel)	Prediction (Nilai Model Regresi)
2	S-111	BUDI	12	752.0607648	752.065
3	S-112	SANTI	13	773.6684128	773.673
4	S-113	DIAN	14	795.2760608	795.281
5	S-114	DANI	11	730.4531168	730.457
6	S-115	AHMAD	5	600.8072289	600.809
7	S-116	BAYU	13	773.6684128	773.673
8	S-117	RISA	9	687.2378209	687.241
9	S-118	RANI	10	708.8454688	708.849
10	S-119	YANI	10	708.8454688	708.849
11	S-120	RATIH	9	687.2378209	687.241

Assignment

1. Use Data Survey Result

	A	B	C	D
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	500,000	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

2. Import the Data

Import Data - Format your columns.

Format your columns.

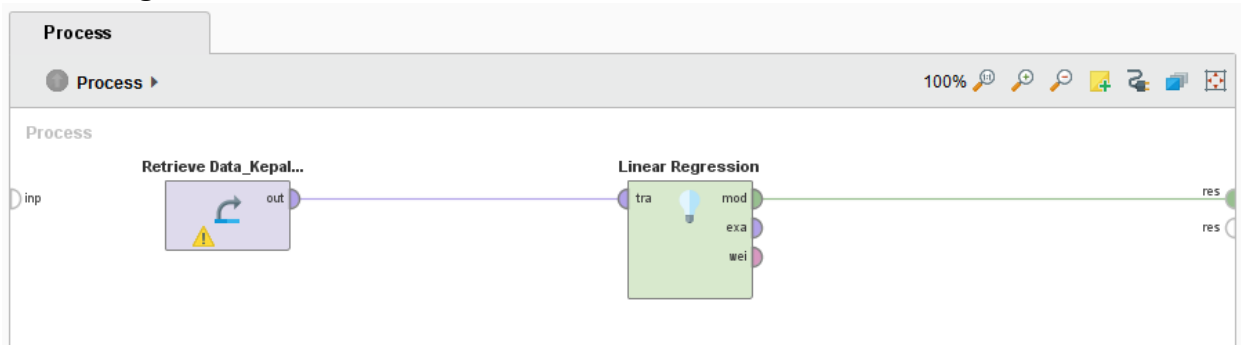
☐ Replace errors with missing values ⓘ

	NO. RESPONDEN <i>integer</i>	PENDAPATAN (RUPIAH)* <i>integer</i>	JUMLAH ANGGOTA K... <i>integer</i>	DAYA BELI (RUPIAH) <i>integer label</i>
1	1	1000000	6	834000
2	2	1400000	7	1200000
3	3	200000	3	134000
4	4	1400000	6	1167000
5	5	500000	3	334000
6	6	1700000	5	1360000
7	7	400000	3	267000
8	8	1900000	5	1520000
9	9	300000	3	200000
10	10	500000	4	375000
11	11	700000	7	600000
12	12	1900000	3	1267000
13	13	800000	4	600000

no problems.

Previous Next Cancel

3. Modelling the Process and then Run the Process



4. Result of Data View and Text View (Regression Model)

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

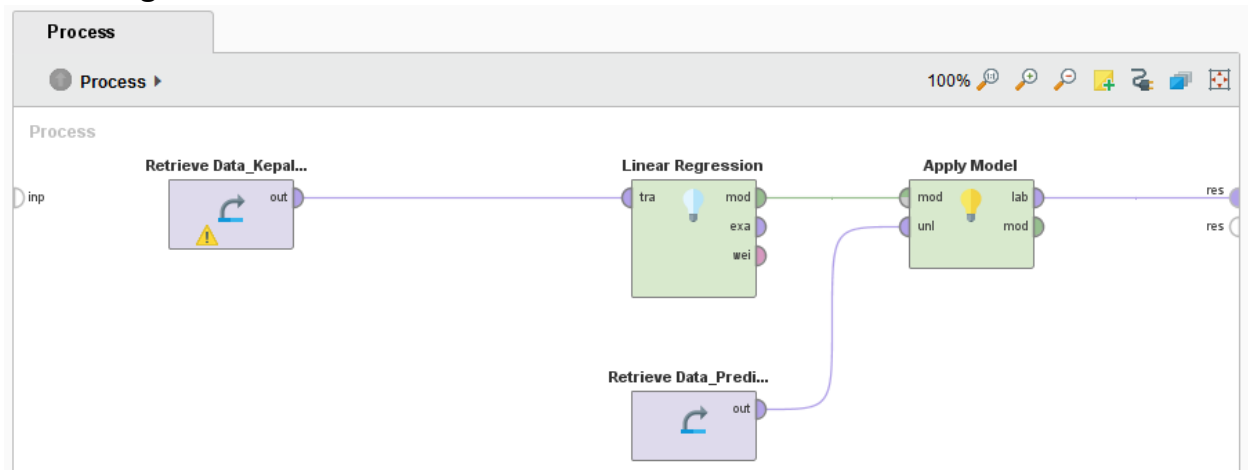
LinearRegression

$0.739 * \text{PENDAPATAN (RUPIAH)}$
 $+ 47807.624 * \text{JUMLAH ANGGOTA KELUARGA}$
 $- 180222.487$

5. Data Testing

	A	B	C
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

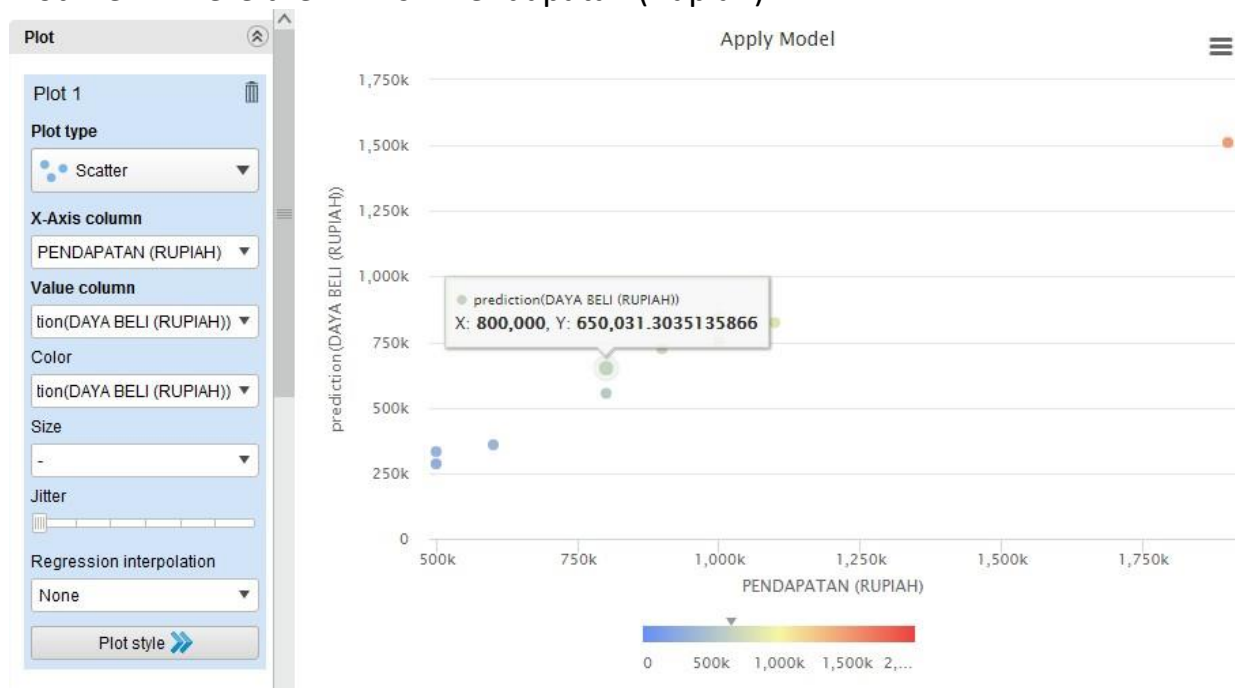
6. Modelling the Process and then Run the Process



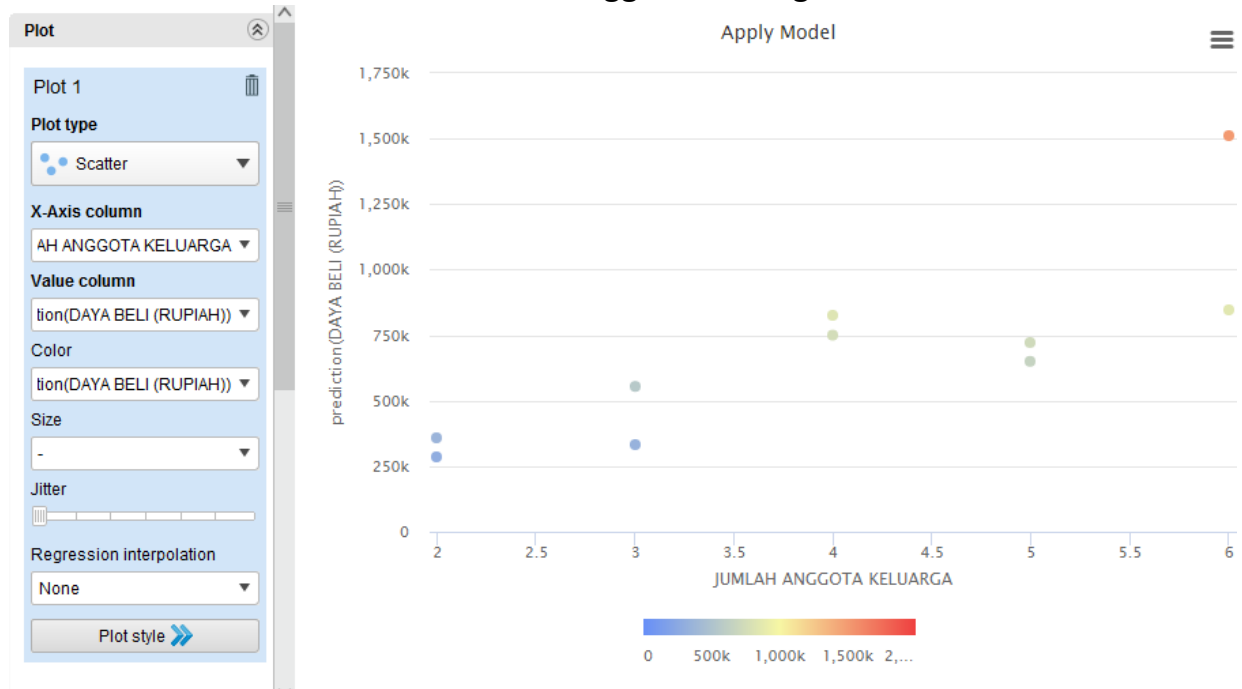
7. The Result of Data View (Prediction)

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

8. Plot View where the x-Axis = Pendapatan (Rupiah)



9. Plot View where the x-Axis = Jumlah Anggota Keluarga



10. Proof of the Regression Model

	A	B	C	D	E
1	NO. RESPONDEN	PENDAPATAN (RUPIAH)	JUMLAH ANGGOTA KELUARGA	Prediksi Daya Beli (Tabel)	Prediksi Daya Beli (Model Regresi)
2	1	900,000	5	723933.2625	723915.633
3	2	800,000	3	554416.0562	554400.385
4	3	500,000	2	284902.5556	284892.761
5	4	1,900,000	6	1510760.476	1510723.257
6	5	600,000	2	358804.5146	358792.761
7	6	800,000	5	650031.3035	650015.633
8	7	1,000,000	6	845642.8452	845623.257
9	8	1,100,000	4	823929.5569	823908.009
10	9	1,000,000	4	750027.5979	750008.009
11	10	500,000	3	332710.1792	332700.385