

Traceis™ Data Exploration Studio Associative rules

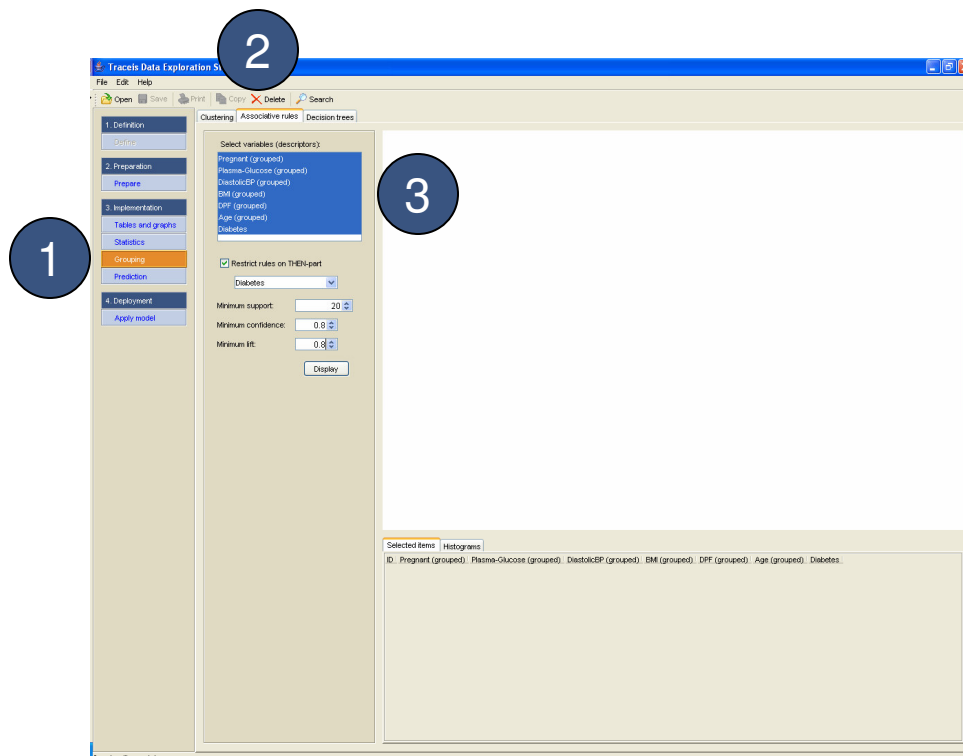
1 Select the grouping step

In this example, the diabetes dataset was used. First, select the grouping step.

2 Select the associative rules tab

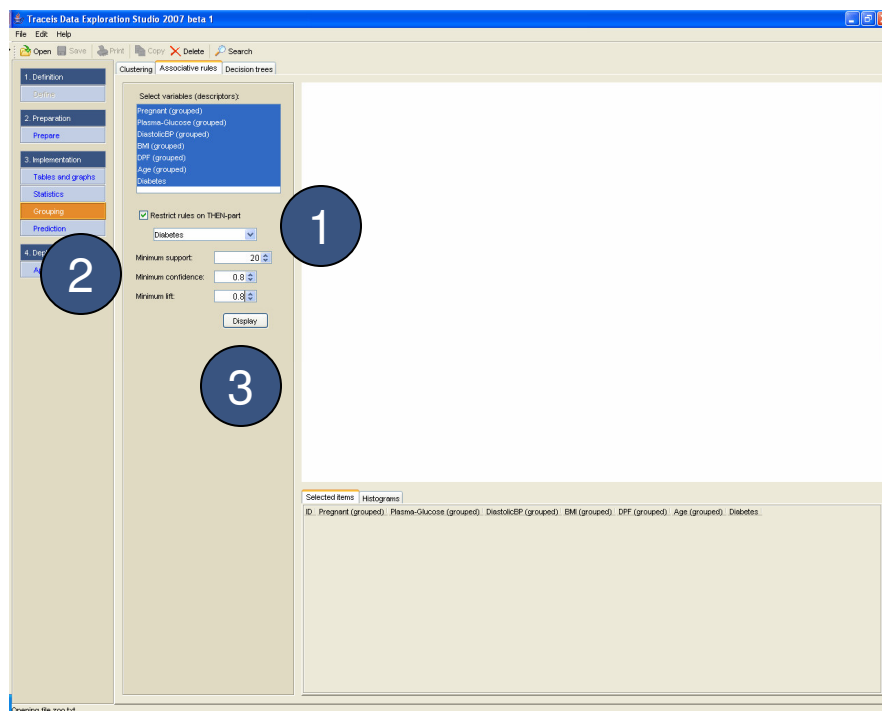
3 Select the descriptors

Select all variables to use as descriptors. In this example, all variables were selected. To select multiple non-contiguous variables, use ctrl-click and for contiguous variables use the shift-click.



MAKING SENSE OF DATA

- 1 Optionally restrict rules on THEN-part
In this example, only rules where diabetes is in the THEN-part of the rule are generated.
- 2 Specify minimum rule support, confidence and lift
- 3 Display the rules



MAKING SENSE OF DATA

1 IF-part display

The first column displays the IF-part of the rule.

2 THEN-part display

The second column displays the THEN-part of the rule.

3 Rule statistics

The following rule statistics are displayed: count, support, confidence and lift.

IF-part	THEN-part	Count	Support	Confidence	Lift
Pregnant (grouped) = low	Diabetes = no	181	0.29	0.801	1.225
Plasma-Glucose (grouped) = low	Diabetes = no	82	0.131	0.943	1.442
BM (grouped) = low	Diabetes = no	80	0.128	0.92	1.406
DiastolicBP (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	113	0.213	0.821	1.256
Plasma-Glucose (grouped) = low AND Pregnant (grouped) = low	Diabetes = no	41	0.066	0.976	1.493
DiastolicBP (grouped) = normal AND Pregnant (grouped) = low	Diabetes = no	156	0.25	0.843	1.29
BM (grouped) = low AND Pregnant (grouped) = low	Diabetes = no	40	0.064	0.976	1.492
BM (grouped) = normal AND Pregnant (grouped) = low	Diabetes = no	58	0.093	0.921	1.406
DPF (grouped) = low AND Pregnant (grouped) = low	Diabetes = no	88	0.141	0.846	1.294
DPF (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	68	0.109	0.81	1.238
Age (grouped) = 20-39 AND Pregnant (grouped) = low	Diabetes = no	173	0.277	0.84	1.284
Plasma-Glucose (grouped) = low AND Pregnant (grouped) = medium	Diabetes = no	22	0.035	0.88	1.346
BM (grouped) = low AND Pregnant (grouped) = medium	Diabetes = no	21	0.034	0.913	1.395
BM (grouped) = low AND Plasma-Glucose (grouped) = medium	Diabetes = no	63	0.101	0.969	1.492
DiastolicBP (grouped) = normal AND Plasma-Glucose (grouped) = low	Diabetes = no	70	0.112	0.946	1.447
BM (grouped) = normal AND Plasma-Glucose (grouped) = low	Diabetes = no	22	0.035	0.917	1.402
BM (grouped) = obese AND Plasma-Glucose (grouped) = low	Diabetes = no	28	0.045	0.933	1.427
DPF (grouped) = low AND Plasma-Glucose (grouped) = low	Diabetes = no	50	0.08	0.962	1.471
DPF (grouped) = medium AND Plasma-Glucose (grouped) = low	Diabetes = no	26	0.042	0.963	1.473
Age (grouped) = 20-39 AND Plasma-Glucose (grouped) = low	Diabetes = no	70	0.112	0.946	1.447
BM (grouped) = severely obese AND Plasma-Glucose (grouped) = high	Diabetes = yes	41	0.066	0.82	2.369
Age (grouped) = 40-59 AND Plasma-Glucose (grouped) = high	Diabetes = yes	38	0.061	0.844	2.44
BM (grouped) = low AND DiastolicBP (grouped) = normal	Diabetes = no	65	0.104	0.915	1.4
DPF (grouped) = low AND BM (grouped) = low	Diabetes = no	46	0.074	0.92	1.407
DPF (grouped) = medium AND BM (grouped) = low	Diabetes = no	24	0.038	0.888	1.359
Age (grouped) = 20-39 AND BM (grouped) = low	Diabetes = no	65	0.104	0.956	1.462
DPF (grouped) = medium AND BM (grouped) = normal	Diabetes = no	44	0.071	0.915	1.246
Age (grouped) = 20-39 AND BM (grouped) = normal	Diabetes = no	98	0.159	0.878	1.253
DiastolicBP (grouped) = normal AND Plasma-Glucose (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	113	0.181	0.876	1.34
BM (grouped) = low AND Plasma-Glucose (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	31	0.05	1	1.529
BM (grouped) = normal AND Plasma-Glucose (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	42	0.067	0.913	1.396
DPF (grouped) = low AND Plasma-Glucose (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	65	0.104	0.955	1.306
DPF (grouped) = medium AND Plasma-Glucose (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	49	0.079	0.917	1.249
Age (grouped) = 20-39 AND Plasma-Glucose (grouped) = medium AND Pregnant (grouped) = low	Diabetes = no	127	0.204	0.858	1.312
DiastolicBP (grouped) = normal AND Plasma-Glucose (grouped) = low AND Pregnant (grouped) = low	Diabetes = no	39	0.062	0.975	1.491

MAKING SENSE OF DATA

1

Click on header to sort

2

Click on row to view observations

