

## Traceis™ Data Exploration Studio Searching

### 1 Select the prepare step

This example uses the body fat dataset. To search the dataset, first select the prepare step.

### 2 Select the search tab

### 3 Set number of terms

It is possible to search by one or more search terms. The number of search terms should be specified. In this example, it was set to 3.

The screenshot shows the Traceis Data Exploration Studio interface. On the left, a navigation pane has '1' over the 'Prepare' step. The main window has '2' over the 'Search' tab. In the search configuration area, '3' is over the 'Number of search terms' dropdown, which is set to 3. Below it, three search terms are defined: 'Percent body fat' with a value of 20, 'Age(years)' with a value of 50, and 'Abdomen(cm)' with a value of 85. A 'Search' button is visible. The main data table displays columns for various body measurements and their values for multiple individuals. At the bottom, a 'Selected Items' section lists the variables used in the search.

ID	Percent body fat	Age(years)	Weight(lbs)	Height(inches)	Neck(cm)	Chest(cm)	Abdomen(cm)	Hip(cm)	Thigh(cm)	Knee(cm)	Ankle(cm)	Biceps(cm)
1.123	23	154.25	67.75	36.2	85.1	85.2	94.5	59	37.3	21.9	32	
1.253	22	154	66.25	34	95.8	87.9	99.2	59.6	39.9	24	28.8	
1.291	10.4	26	184.75	72.25	37.4	101.8	88.4	101.2	60.1	37.3	22.8	32.4
1.334	29.7	24	184.25	71.25	34.4	97.3	100	101.9	63.2	42.2	24	32.2
1.2502	20.9	24	210.25	74.75	39	104.5	94.4	107.8	66	42	25.6	35.7
1.2549	19.2	26	191	69.75	36.4	105.1	90.7	100.3	58.4	38.3	22.9	31.9
1.0704	12.4	25	178	72.5	37.8	99.8	88.5	97.1	60	39.4	23.2	30.5
1.59	4.1	25	151	74	38.1	100.9	82.5	98.8	62.9	39.3	23.9	35.9
1.0722	11.7	23	198.25	73.5	42.1	99.6	88.6	104.1	63.1	41.7	25	35.6
1.083	7.1	26	186.25	74.5	38.5	101.5	83.6	98.2	59.7	39.7	25.2	32.8
1.0912	7.8	27	215	75	39.4	103.8	90.9	107.7	66.2	39.2	25.9	37.2
1.0513	20.8	32	190.5	69.5	38.4	102	91.6	103.9	63.4	38.3	21.5	32.5
1.0505	21.2	30	205.25	71.25	39.4	104.1	101.8	108.6	66	41.5	23.7	38.9
1.0484	22.1	35	187.75	69.5	40.5	101.3	96.4	100.1	69	39	23.1	36.1
1.0512	20.9	35	162.75	66	36.4	99.1	92.9	99.2	63.1	39.7	21.7	31.1
1.0333	29	34	195.75	71	38.9	101.9	96.4	105.2	64.8	40.8	23.1	36.2
1.0489	22.9	32	209.25	71	42.1	107.6	97.5	107	66.9	40	24.4	38.2
1.0222	16	29	163.75	67.75	38	106.6	89.6	102.4	64.2	39.7	22.9	37.2
1.091	16.5	33	211.75	73.5	40	106.2	100.5	109	65.8	40.6	24	37.1
1.0551	19.1	28	179	68	39.1	103.3	95.9	104.9	63.5	38	22.1	32.5
1.064	15.2	28	200.5	69.75	41.3	111.4	98.8	104.8	63.4	40.6	24.6	33
1.031	15.6	31	140.25	66.25	33.9	86	76.4	94.6	57.4	35.3	22.2	27.9
1.0594	17.7	32	149.75	70	35.5	86.7	80	93.4	54.9	36.2	22.1	29.8
1.0688	14	28	151.25	67.75	34.5	90.2	76.3	95.8	58.4	35.5	22.9	31.1
1.0911	3.7	27	159.25	71.5	35.7	89.6	79.7	96.5	55	36.7	22.5	29.9
1.0911	7.9	34	131.5	67.5	36.2	89.6	74.6	95.3	57.7	34.7	21.4	28.7
1.0468	22.9	31	149	67.5	38.8	97.4	88.7	94.7	57.5	36	21	29.2
1.091	3.7	27	133.25	64.75	36.4	83.5	73.9	88.5	50.1	34.5	21.3	30.5
1.079	6.9	29	160.75	69	36.7	97.4	83.5	98.7	59.9	35.3	22.6	30.1
1.0718	11.9	32	182	73.75	38.7	100.5	88.7	99.8	57.5	39.7	33.9	32.5
1.0862	5.7	29	160.25	71.25	37.3	93.5	84.5	100.6	58.5	38.8	21.5	30.1
1.0719	11.8	27	168	71.25	38.1	93	79.1	94.5	57.3	36.2	24.5	29
1.0502	21.3	41	218.5	71	39.8	111.7	100.5	108.3	67.1	44.2	25.2	37.6

# MAKING SENSE OF DATA

## 1 Select Boolean operator

Where more than one search term is selected, a boolean operator must be defined (OR, AND). In this example, the AND operator was chosen.

## 2 Define individual search terms

For each of the search terms, a specific search should be defined. Each search terms includes the variable to search on as well as the value or range of values. The following search is specified in this example:  
(Percent body fat < 20) AND (Age(years) < 50) AND (Abdomen(cm) > 85).

## 3 Search results column option

Once a search has been run, a column is optionally generated where the individual values are 1 (satisfying the query) and 0 (not satisfying the query).

## 4 Initiate the search

Click on the search button to execute the query.

The screenshot displays the Tracsis Data Exploration Studio 2007 beta 1 interface. On the left, a sidebar contains navigation options: Definition, Tables, Statistics, Groups, Predictions, and Deployment. The main window shows search criteria: 'Number of search terms: 3', 'Boolean operator: AND', and three search terms: 'Percent body fat < 20', 'Age(years) < 50', and 'Abdomen(cm) > 85'. A 'Search' button is visible. Below the search criteria, a table of search results is shown, with a column for 'Search results' (1 or 0). The table has columns for 'Density', 'Percent body fat', 'Age(years)', 'Weight(lbs)', 'Height(inches)', 'Neck(cm)', 'Chest(cm)', 'Abdomen(cm)', 'Hip(cm)', 'Thigh(cm)', 'Knee(cm)', 'Ankle(cm)', and 'Biceps(cm)'. The results table shows 41 rows of data. At the bottom, there are options for 'Selected items' and 'Histograms'.

# MAKING SENSE OF DATA

## 1 Selected observations highlighted

The individual observations resulting from a search are highlighted in the main display window.

## 2 View selected observations

These observations are also displayed in the selected items window and displayed as a table or highlighted on histograms. In addition, the selected observations can be seen throughout all other views.

