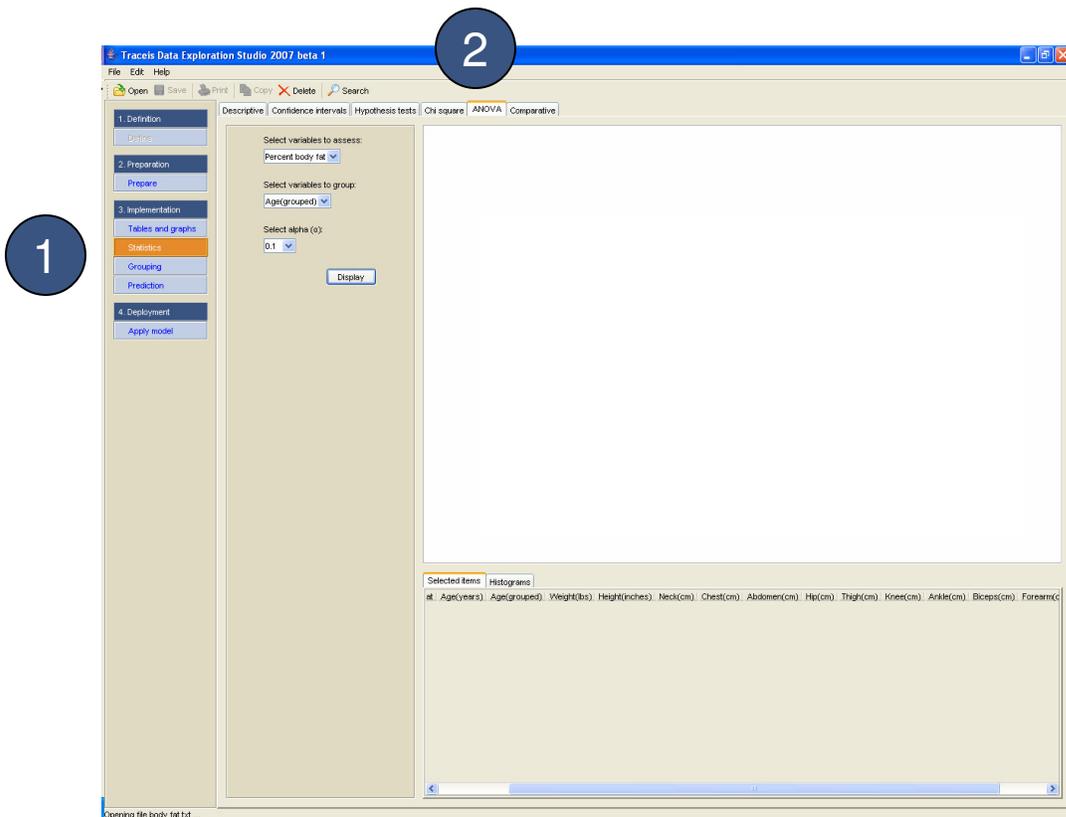


## Traceis™ Data Exploration Studio One-way analysis of variance

### 1 Select statistics step

In this example, the body fat dataset was used. First, select the statistics step.

### 2 Select the ANOVA tab



# MAKING SENSE OF DATA

## 1 Select the variable to assess

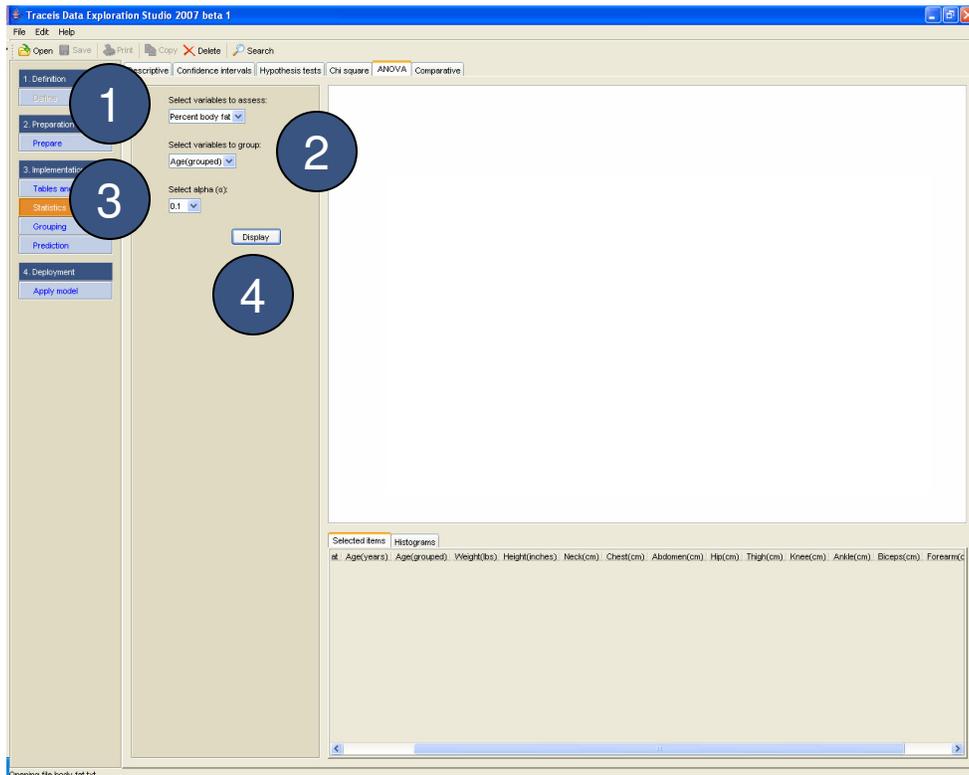
Select a continuous variable to assess. In this example, the percent body fat was selected.

## 2 Define how to group observations

Groups will be generated from values of a categorical variable. In this example, age(grouped) was selected.

## 3 Select alpha

## 4 Display results



# MAKING SENSE OF DATA

## 1 View the results

The results, including a table of mean values for each group, are displayed.

The screenshot shows the Tracsis Data Exploration Studio 2007 beta 1 interface. The 'ANOVA' tab is active, displaying the results for the variable 'Percent body fat' grouped by 'Age(grouped)'. A large blue circle with the number '1' is overlaid on the main results area. The interface includes a left-hand navigation pane with steps: 1. Definition, 2. Preparation, 3. Implementation, 4. Deployment. The 'Statistics' sub-step is selected. The main window shows a table of mean values for each age group and an assessment table with statistical metrics.

Age(grouped) groups	20-29	30-39	40-49	50-59	60-69	70+
Count	36	39	93	42	27	9
Mean	14.231	17.597	19.787	18.679	24.244	24.689
Variance	56.663	56.699	67.155	79.378	37.403	57.306

Variable to assess:	Percent body fat
Mean square within:	62.861
Mean square between:	426.192
F-statistic:	6.813
Alpha (α):	0.1
Degrees of freedom (within):	245
Degrees of freedom (between):	5

Selected items: Histograms  
Age(years), Age(grouped), Weight(lbs), Height(inches), Neck(cm), Chest(cm), Abdomen(cm), Hip(cm), Thigh(cm), Knee(cm), Ankle(cm), Biceps(cm), Forearm(cm)