

ResultBrowser module - Module for displaying the results of the gen run

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Abstract

This document describes the user interface for the ResultBrowser module. It contains some simple examples and screenshots for the users to make using of this module easier.

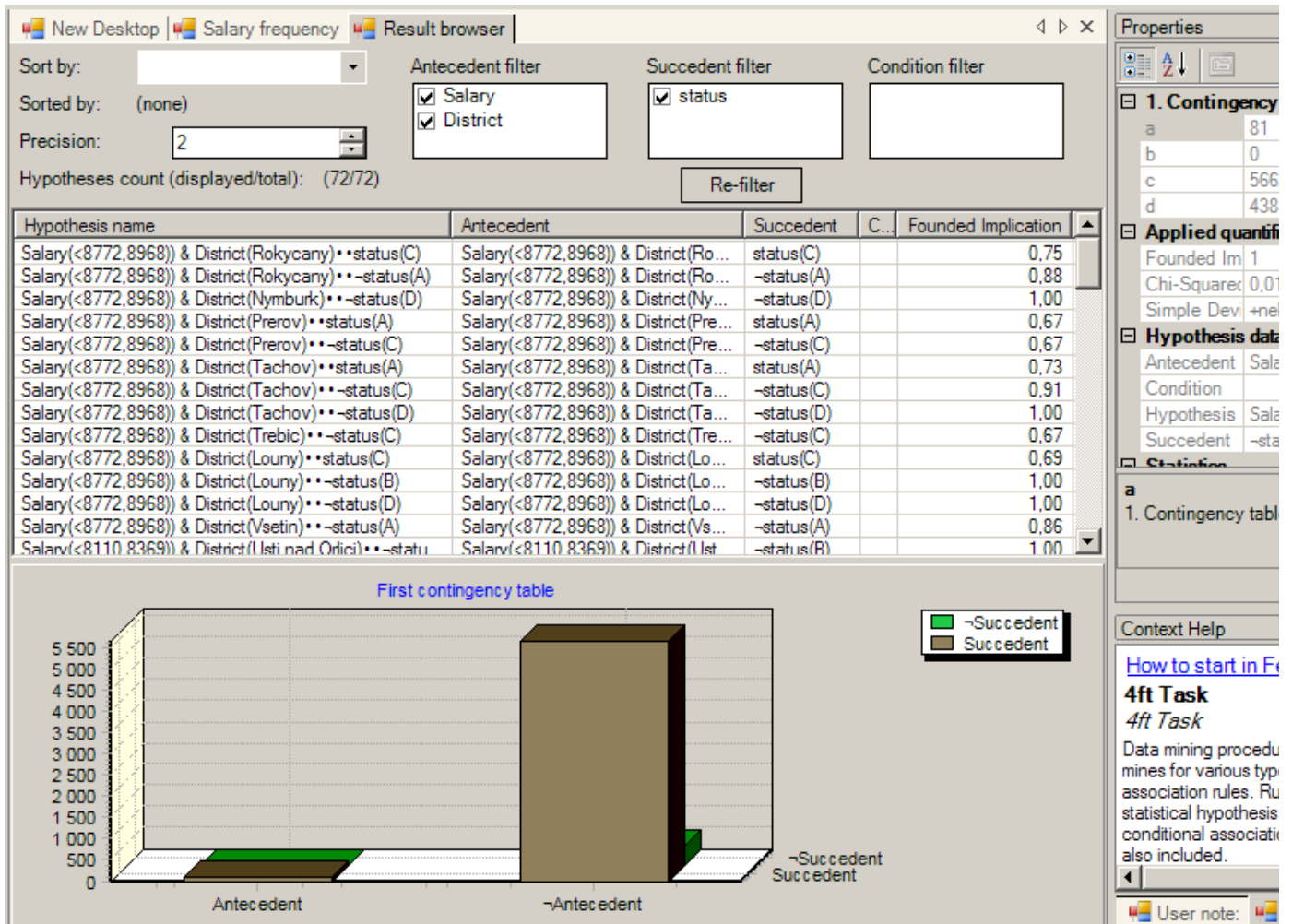
Introduction

Welcome to ResultBrowser module. This is a module designed for displaying the hypotheses obtained by launching the gen on the prepared task. ResultBrowser enables you to view all the hypotheses data, sort and filter hypotheses and view charts for contingency tables.

Parts of the user interface

Main window

Main dialog window contains a list of generated hypotheses. When starting the module, ResultBrowser loads all the hypotheses, quantifiers values and statistics in cache to make further work with the hypotheses quicker. Preloading could take same time, so please be patient until the module starts.



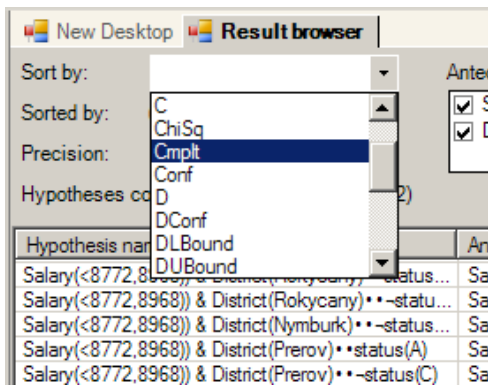
- **Columns.** You can sort the hypotheses list by clicking on one of the columns. This is not the only way you can sort this list - see also [sorting by statistics](#). Columns of this list are the following:
 - **Hypothesis.** This view column contains the hypothesis composed on the basis of the antecedent, succedent and condition or on the basis of row and column attributes.
 - **Antecedent / Row attribute.** This view column contains the antecedent or the row attribute for corresponding task types for the hypothesis.
 - **Succedent / Column attribute.** This view column contains the succedent or the column attribute for corresponding task types for the hypothesis. This column is empty for CF and SDCF hypotheses
 - **Condition.** This view column contains the condition of the given hypothesis.
 - **Quantifiers columns.** These view columns contain counted quantifier values for the hypothesis. The columns for used quantifiers are optional and can be added to hypotheses listview using the [right-click menu](#) on the hypotheses list.

Tools panel

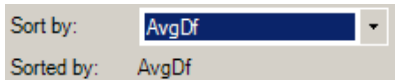
This panel contains the following tools for working with hypotheses list:

Sorting by statistics

This dropdown menu is designed for sorting hypotheses list by the statistics counted on the hypotheses contingency tables. The list is sorted every time you select the desired statistics from the dropdown menu.

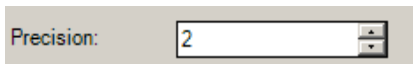


ResultBrowser will then display by which statistics the list is sorted.



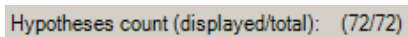
Precision

This element allows you to choose the number of decimal places for displaying the counted quantifiers values in the columns and also counted quantifiers and statistics values in the [property grid](#). Hypotheses list will automatically update itself when the precision is changed.



Hypotheses count

Here the hypotheses count is displayed. Value shows total count of generated hypotheses and displayed number of the generated hypotheses. You can limit the displayed hypotheses using [filter](#).



Filter

Filter allows you to limit the displayed hypotheses by the literals in antecedent, succedent and condition. By default, all the hypotheses are displayed - every literal is checked. By unchecking literals from the antecedent, succedent and condition you can limit the displayed hypotheses to only those that contain only the selected literals. For submitting the changed filter condition you should click on Re-filter button. The hypotheses list will be refilled according to filter and displayed [hypotheses count](#) will be updated accordingly.

Right-click menu on the hypotheses list

This right-click menu is designed for adding and removing columns from the hypotheses list. You can add and remove [quantifier columns](#).

Hypothesis name	Antecedent	Succedent	Founded Implication
Salary(<8772,8968)) & District(Rokycany)••-status...	Salary(<8772,8968)) & District(P...	Founded Implication	0,75
Salary(<8772,8968)) & District(Rokycany)••-statu...	Salary(<8772,8968)) & District(F...	Founded Implication	0,88
Salary(<8772,8968)) & District(Nymburk)••-status...	Salary(<8772,8968)) & District(N...	Simple Deviation	1,00
Salary(<8772,8968)) & District(Prerov)••-status(A)	Salary(<8772,8968)) & District(P...	Chi-Squared Quantifier	0,67
Salary(<8772,8968)) & District(Prerov)••-status(C)	Salary(<8772,8968)) & District(P...	Chi-Squared Quantifier	0,67
Salary(<8772,8968)) & District(Tachov)••-status(A)	Salary(<8772,8968)) & District(Ta...	-status(A)	0,73
Salary(<8772,8968)) & District(Tachov)••-status(C)	Salary(<8772,8968)) & District(Ta...	-status(C)	0,91
Salary(<8772,8968)) & District(Tachov)••-status(D)	Salary(<8772,8968)) & District(Ta...	-status(D)	1,00

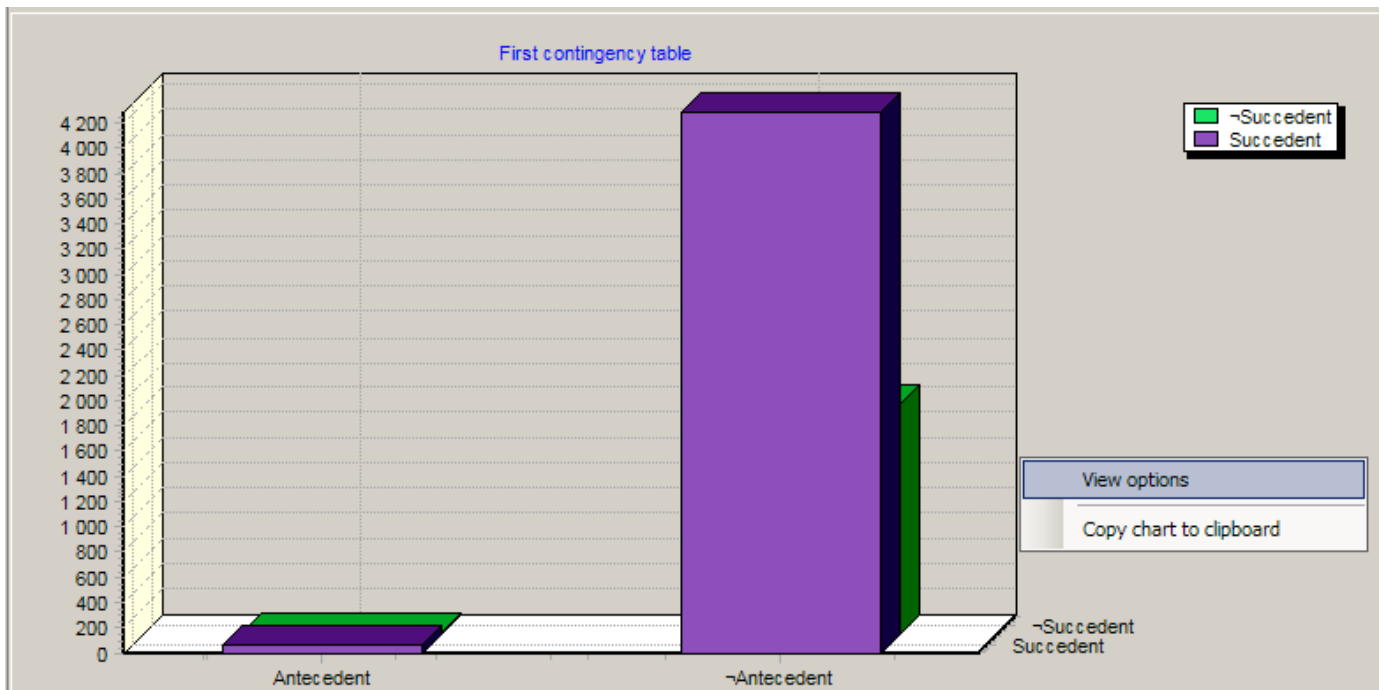
Property grid

Property grid is designed to display all of the hypothesis data. It includes contingency tables, quantifiers values, hypothesis data and statistics values, grouped by appropriate categories. Data for hypothesis is displayed in the property grid when the hypothesis is selected. You can adjust view parameters of the property grid such as width. Separate values can be copied to clipboard from the property grid.

Properties	
<div> </div>	
1. Contingency table	
a	63
b	9
c	4291
d	1818
Applied quantifiers	
Founded Implication (Fou	0,88
Chi-Squared Quantifier (C	0
Simple Deviation (Simple	1,57
Hypothesis data	
Antecedent	Salary(<8772,8968))
Condition	
Hypothesis	Salary(<8772,8968))
Succedent	~status(A)
Statistics	
A	63
AvgDf	1,24
B	9
C	4291
Cmplt	0,01
Conf	0,88
D	1818
DConf	0.01

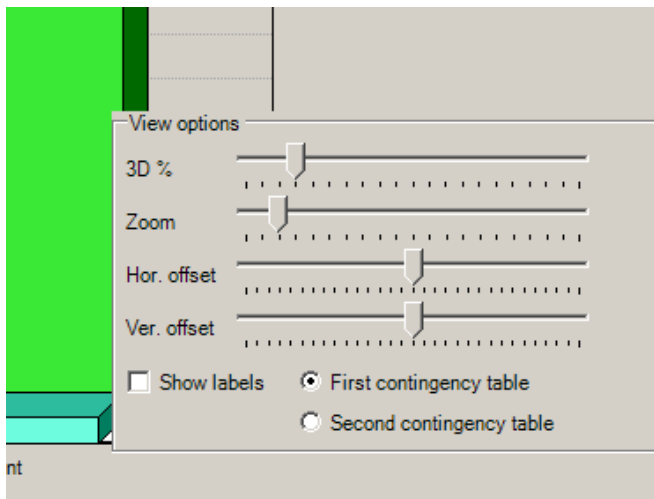
Charts

Result browser displays charts representing contingency table data. It is a 3d bar chart. You can adjust the chart by setting up parameters in the chart options menu which is available on the right-click on the chart. You can also copy the chart to the clipboard as a bitmap using Copy to clipboard option in the right-click menu.



View options

After toggling the View options in the right-click menu, there appears the following set of options which you can set to adjust the chart view.



- **3D %.** Sets "3D proportion" for viewing the chart. Change this value if there are too many bars on the chart which overlap each other
- **Zoom.** Zooms the chart view in and out
- **Horizontal offset.** Moves the chart horizontally
- **Vertical offset.** Moves the chart vertically
- **Show labels.** Toggles showing labels with values on each bar
- **First vs second contingency table.** This switch toggles displaying the chart between the first and the second contingency tables. After changing this option you should reload the hypothesis (simply click on the desired one). Please note that second contingency table is available only for SD type tasks. If you select second contingency table for tasks which do not generate it, an empty chart will be displayed.