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| **Function signature** | | **evalVars** *(input,type)* |
| This function evaluates the similarity of a variable name (specified by type argument) to the list of attributes provided in the user uploaded data file based on the presence of keywords listed for each of the variable names. It assigns a similarity score to each of the attributes from the user uploaded data file. | | |
| Arguments: | * *Input: list of attributes from the user uploaded data file (array of strings)* * Type: variable name (string) | |
| Returns: | [Object{id:integer, varname:string, hint:string, score:integer}] | |
| **Function signature** | | **Compare** *(a, b)* |
| This function compares the attribute ‘score’ (similarity score) for the input objects a and b and returns -1, 1, or zero depending on a’s score being greater, less than, or equal to b’s respectively. | | |
| Arguments: | * *a: object with an integer attribute score* * *b:*  *object with an integer attribute score* | |
| Returns: | Integer | |
| **Function signature** | | **getCombo***(input, type)* |
| Generates the combo boxes containing the list of attribute names from the user uploaded data file sorted in descending order based on their similarity score for a given variable name (specified by type argument). The combo boxes are displayed on the user interface. | | |
| Arguments: | * *list of attributes from the user uploaded data file (array of strings)* * Type: variable name (string) | |
| Returns: | String | |
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| **Function signature** | | **processVars** *(input,type)* |
| This function processes the list of attributes from the user uploaded data file and matches each of them with a variable name based on the similarity scores using ‘evalvars’ function. It generates a combo box for each variable name using getCombo function and returns an object with the matched variable names and combo boxes. | | |
| Arguments: | * *input: array of attribute names from the user uploaded data file (string array)* * *type:* variable name (string) | |
| Returns: | {data:[Object{id:integer, varname:string, hint:string, score:integer}], match:Boolean} | |
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| **Function signature** | | **verify\_combos***(type)* |
| This function updates the variable assignments every time the user makes a change to the combo box (specified by the argument type). As part of this process, the selected value in each combo box is compared with the others to make sure that the same attribute from the user data file is not assigned to two variables. The combo boxes that require manual selection are highlighted in red. It returns an object with the matched variable names and combo boxes. | | |
| Argument : | * *type:* variable name (string) | |
| Returns: | {data:[Object{id:integer, varname:string, hint:string, score:integer}], match:Boolean} | |
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| **Function signature** | | **activate\_combos***()* |
| It shows a box that explains what each of the combination boxes represents if the cursor is placed over a combination box. | | |
| Argument : | * *()* | |
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