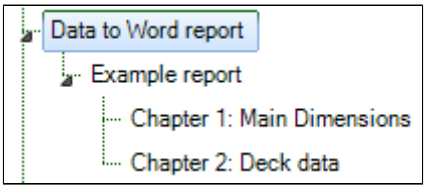
Data to Word report

- Create a new class: `Word report`
- Include the following entities:

`Example report`	child of `Data to Word report`	Singular obligatory
Chapter 1: Main Dimensions	child of `Example report`	Singular obligatory
Chapter 2: Deck data	child of `Example report`	Singular obligatory



In entity `Example report`, the main document will be created, which includes the separate documents of the entities `Chapter 1: Main Dimensions` and `Chapter 2: Deck data`.

- Create the following parameters in the **Knowledge Browser**:

Parameter name	*Dimension*	*Determined by*	*Reference*	*In Class*
`Report_document$`	[$]	*USL: User of System /function*	Report document	`Word report`
`Word_file_name$`	[$]	*USL: User of System /function*	Name of Word file	`Word report`
`Document_Tag$`	[$]	*USL: User of System /function*	Document tag	`Word report`
`TableStyle$`	[$]	*VR: User only*	Word table style information Example: ParameterBold:=True, ParameterBackColor:=wdColorBlack, Font:=Arial 8.5 OutsideBorder:=wdLineStyleSingle wdLineWidth100pt wdColorAutomatic InsideGrid:=wdLineStyleSingle wdLineWidth050pt wdColorAutomatic CaseNumbers:=True TableAlignment:=wdAlignRowCenter	`Word report`
`VBA_Macro$`	[$]	*USL: User of System /function*	VBA Macro that is executed by MS Word	`Word report`
`Mode`	[BLN]	*VR: User only*	Mode for creating a VBA table macro by TELITAB2WORD() function. 0<EQ>Saves as WordMacro_TimeStamp_.bas on working directory and returns file name 1<EQ>Returns the complete VBA macro text If Mode=1 is selected for manipulation by the knowledge engineer, it should be save using a PUT$() function	`Word report`
`Transposed`	[BLN]	*VR: User only*	Orientation of Word table 0<EQ>Parameters per column 1<EQ>Parameter per row	`Word report`

- Include the following parameters in entity `Chapter 1: Main Dimensions`: `Loa`, `Lpp`, `Boa`, `Dm`, `Volume`, `Document_Tag$`, `Report_document$` and `Word_file_name`.
- Localize ("instantiate') parameter `Volume` and remove **@MODIFY** because you do not want to allow this here.
- Create the following relations in entity `Chapter 1: Main Dimensions`:

`Loa = ENTITY#(xx).Loa` where "**xx**" is the value of `QEntityID` of entity `Main Dimensions`.

`Lpp = ENTITY#(xx).Lpp` where "**xx**" is the value of `QEntityID` of entity `Main Dimensions`.

`Boa = ENTITY#(xx).Boa` where "**xx**" is the value of `QEntityID` of entity `Main Dimensions`.

`Dm = ENTITY#(xx).Dm` where "**xx**" is the value of `QEntityID` of entity `Main Dimensions`.

`Volume = ENTITY#(xx).Volume` where "**xx**" is the value of `QEntityID` of entity `Hydrostatics`.

```
Document_Tag$ = "#" + Report_document$ + "#"

Word_file_name$ = "main_dimensions_" + STR$(TIME(0)) + ".doc"

Report_document$ = WINWORD$ Tutorial_taxonomy_maindimensions.rtf(Word_file_name$,0 , Boa, Dm, Loa, Lpp,
Volume)
```

- To show computed values set attribute @SHOW on `QEntityData`.

In general, the function `WINWORD$` opens and creates an RTF document, saves it as Word document and returns the name of the document. Normally, you have to create an RTF document and store it in the current applications directory (either of the knowledge base, located in Kbs_<KnowledgeBaseName>\Applic, or the general Applic directory in My Knowledge).

We have created a multi level approach with one main document and several sub-documents. A time stamp is included in the filenames. See the wiki for a detailed description of the functions **WINWORD$** and **TIME()**.

For the second report chapter entity, do about the same as for the first chapter:

- Include the following parameters in entity `Chapter 2: Deck data`: `Deck_data#`, `Document_Tag$`, `Report_document$`, `Word_file_name`, `Mode`, `TableStyle$`, `Transposed` and `VBA_Macro$`.
- Create the following relations in entity `Chapter 2: Deck data`:

  `Deck_data# = ENTITY#(xx).Deck_data#` where "**xx**" is the value of `QEntityID` of entity `Decks`.

  `Mode = 0` (0<EQ>Saves as WordMacro_TimeStamp_.bas on working directory and returns file name)

  `Transposed = 0` (0<EQ>Parameters per column)

  ```
  Document_Tag$ = "#" + Report_document$ + "#"

  Word_file_name$ = "deck_data_" + STR$(TIME(0)) + ".doc"

  Report_document$ = WINWORD$ Tutorial_deck_data.rtf(Word_file_name$, 0, VBA_Macro$)

  VBA_Macro$ =  TELITAB2WORD$(Deck_data#, 1, TableStyle$, Transposed, Mode)
  ```

- To show computed values set attribute @SHOW on `QEntityData`.

The TELITAB2WORD$ function returns a MS Word macro to create a table in Word based on a given Telitab set, in this case Telitab "Deck_data#". See the wiki for a detailed description of TELITAB2WORD$ function.

Parameter `TableStyle$` contains the Word table style information.

- Create the relation as shown below. See the wiki for a detailed description of **TEXTITEM$()** function.

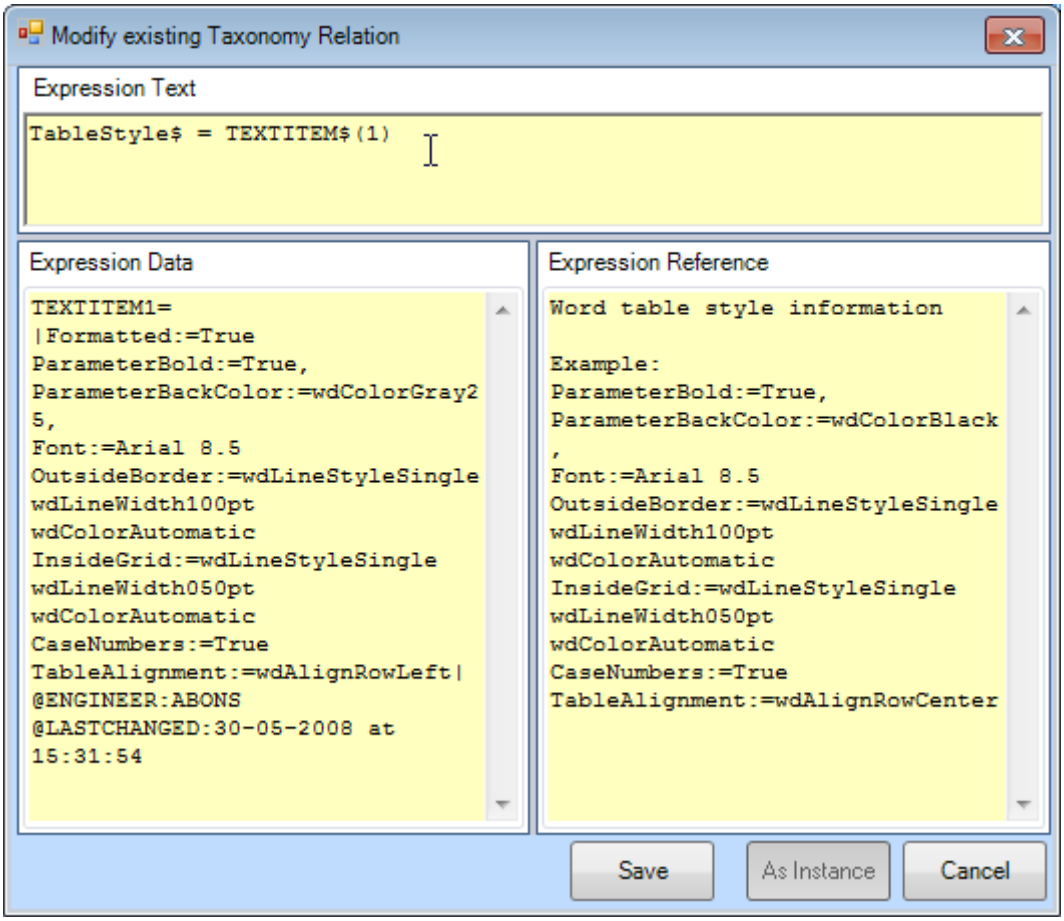
  `TableStyle$ = TEXTITEM$(1)`

  Expression Data:

```
TEXTITEM1=

|Formatted:=True

ParameterBold:=True,

ParameterBackColor:=wdColorGray25,

Font:=Arial 8.5

OutsideBorder:=wdLineStyleSingle wdLineWidth100pt wdColorAutomatic

InsideGrid:=wdLineStyleSingle wdLineWidth050pt wdColorAutomatic

CaseNumbers:=True

TableAlignment:=wdAlignRowLeft|
```

Expression Reference:

```
Word table style information


Example:

ParameterBold:=True,

ParameterBackColor:=wdColorBlack,

Font:=Arial 8.5

OutsideBorder:=wdLineStyleSingle wdLineWidth100pt wdColorAutomatic

InsideGrid:=wdLineStyleSingle wdLineWidth050pt wdColorAutomatic

CaseNumbers:=True

TableAlignment:=wdAlignRowCenter
```



Finally on the top level we make the overall report:

- Include the following parameters in entity `Example report`: `Report_document$` and `Word_file_name$`.

TODO: ----

You have to modify the total report **report.rtf** in order to let the overall summary report do its work.

In the template of the total report **report.rtf** we added #ENTITY#(xx).Document_Tag$#. This is the reference to the parameters Document_Tag$# in the relevant Entities. You have to check whether the QEntityID of the two references in the template are correct. If you modify the RTF document, please remember to check it in Quaestor using the Tools>RTF Template Check... option.

- Finally, create the following relations in entity `Example report`:

  `Word_file_name$ = "Report_" + STR$(TIME(0)) + ".doc"`

  `Report_document$ = WINWORD$ Report.rtf(Word_file_name$, 0 , ENTITY#(xx).Document_Tag$, ENTITY#(xxx).Document_Tag$)` where "**xx**" is the value of `QEntityID` of entity `Chapter 1: Main Dimensions` and "**xxx**" of entity `Chapter 2: Deck data`.

- To show computed values set attribute @SHOW on `QEntityData`.

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