WTML Examples

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- Part 2: Application Examples
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  - Exchanging budget figures between Word and Excel

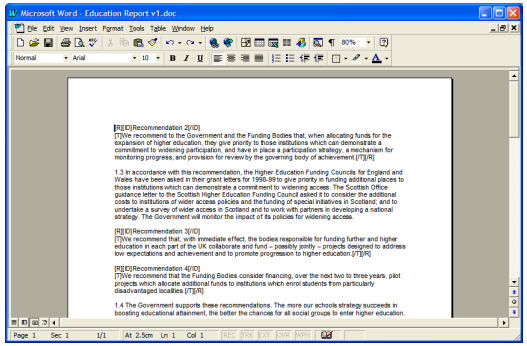
Part 1 - Functions

“To Excel”

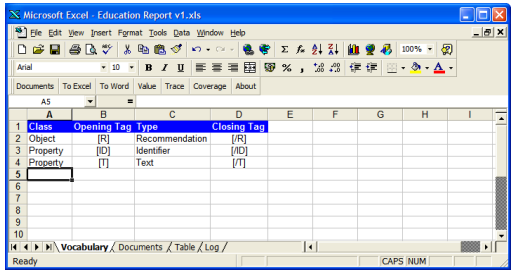
“To Excel” transfers data from a virtual table in Word to a real table in Excel.

Sequence of steps

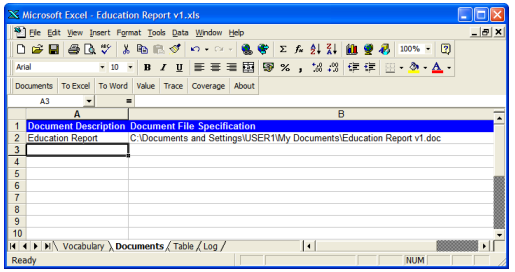
Mark up the Word document(s)



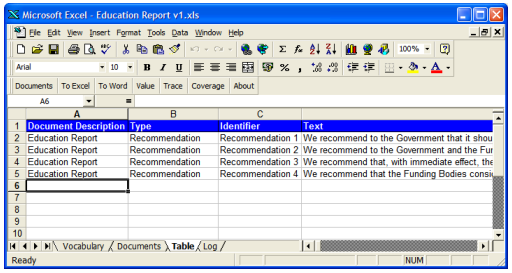
In a worksheet define the markup vocabulary you have used



In a second worksheet list the marked up document(s)

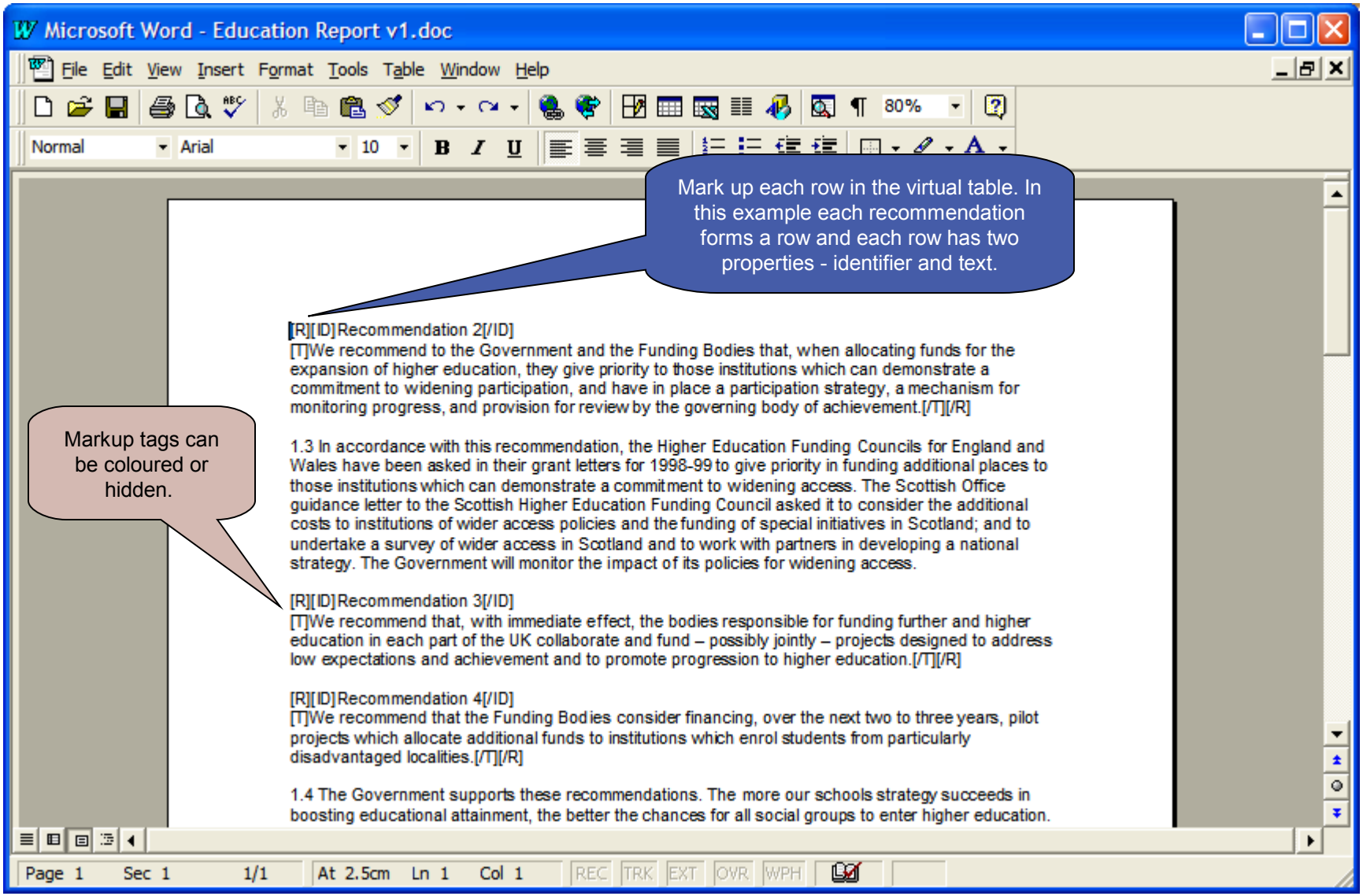


Click the “To Excel” button on the WTML toolbar to create a real table in Excel

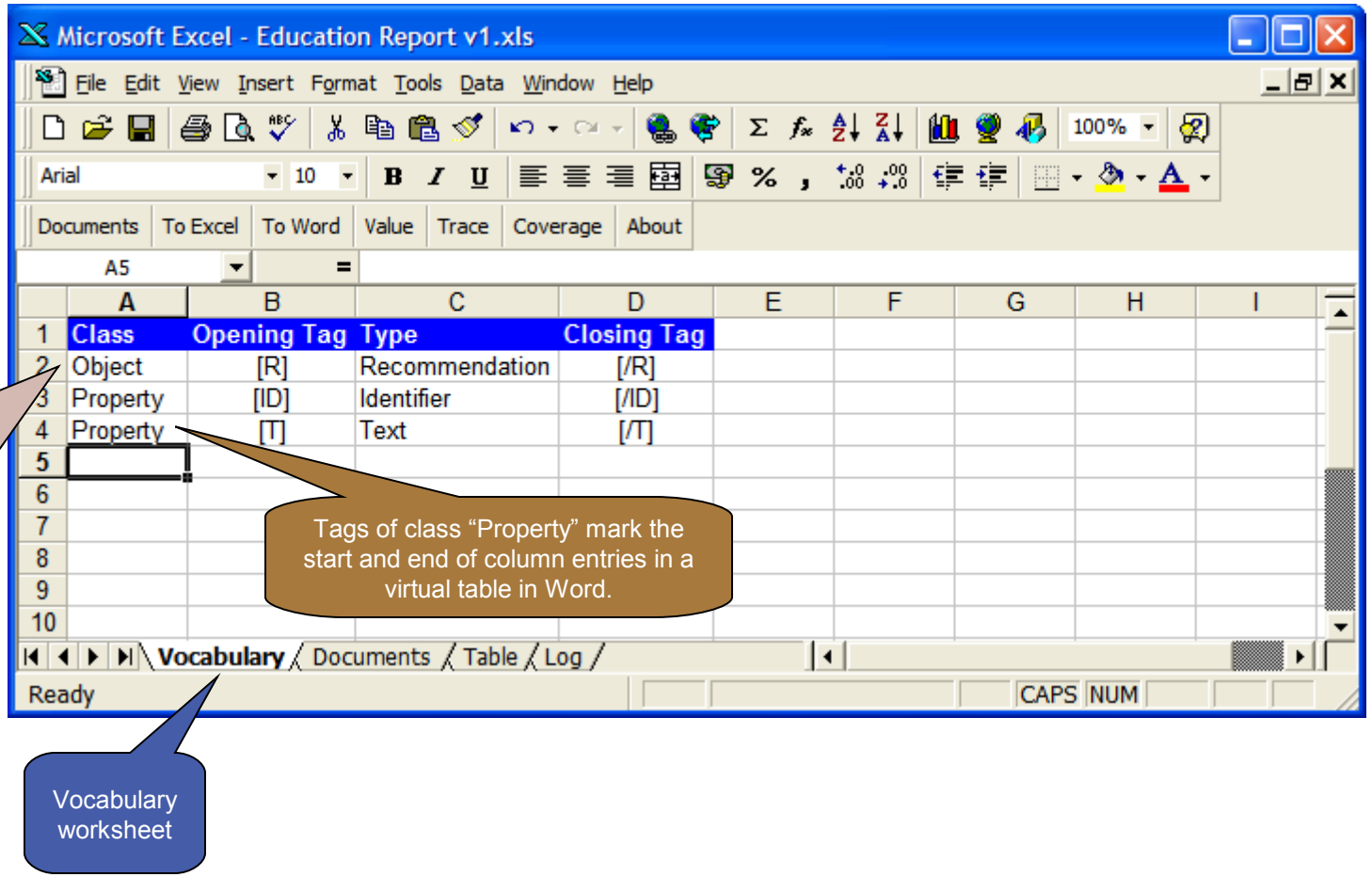


Continue for a more detailed description of each step...

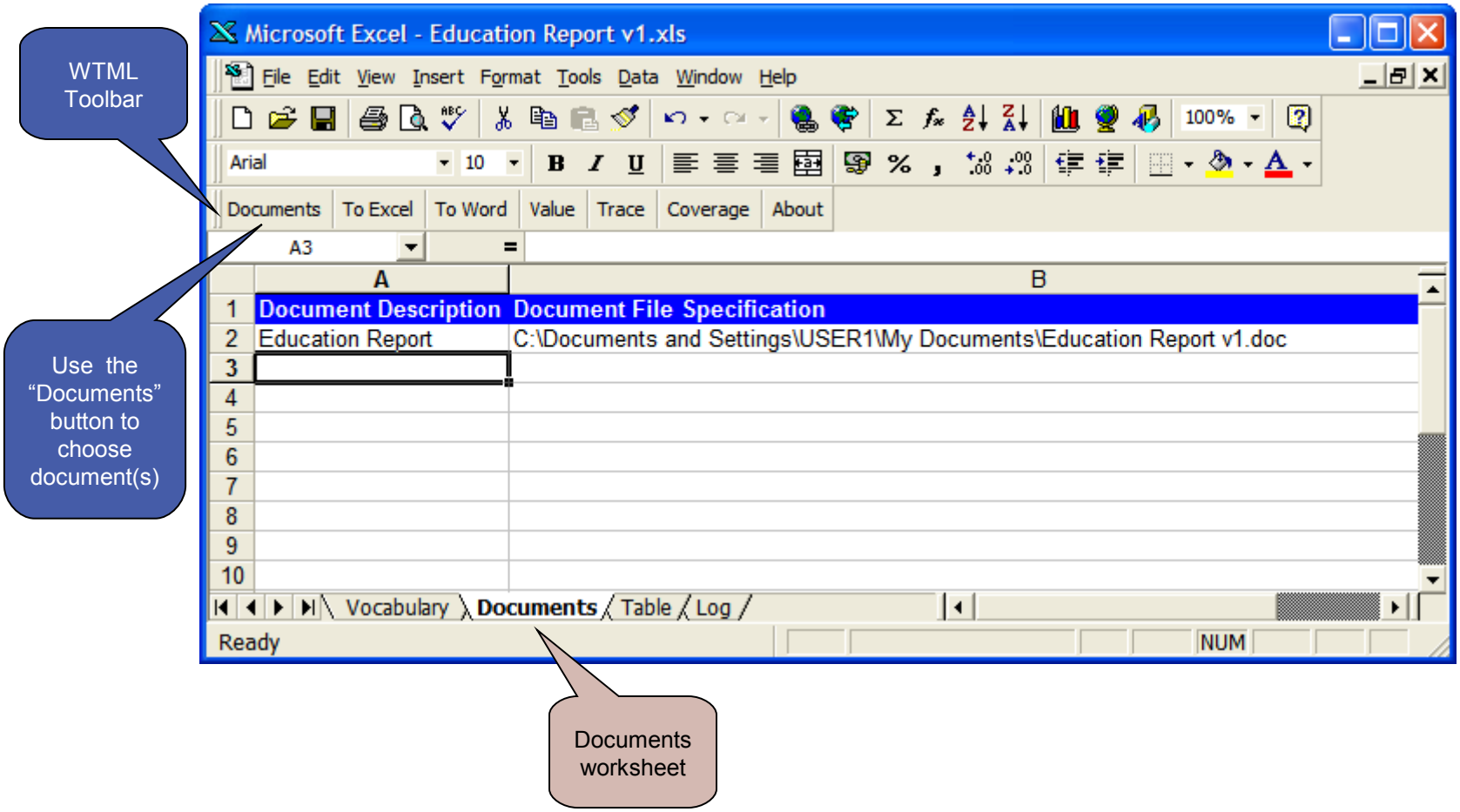
Mark up Word document(s)



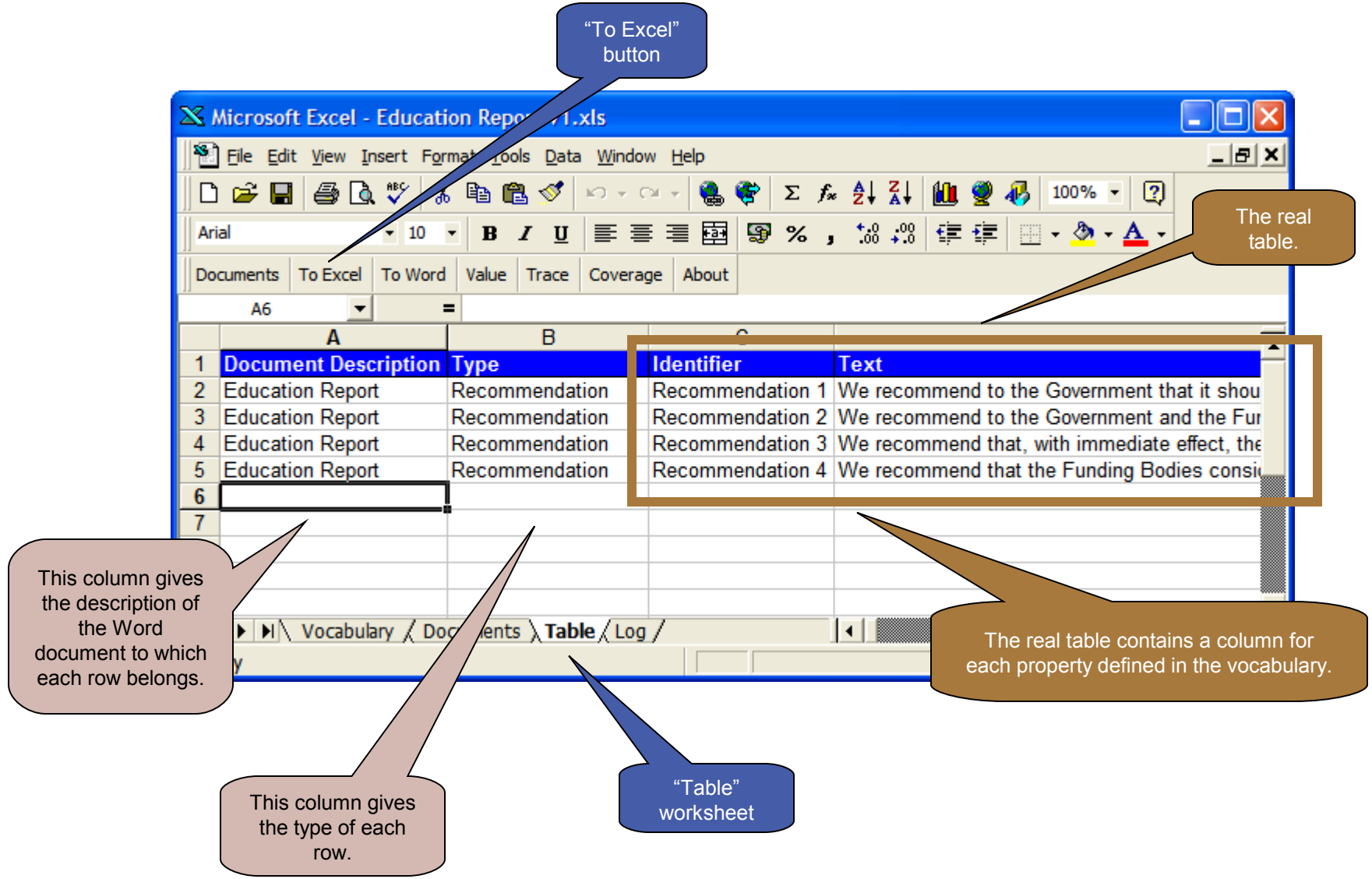
Define the markup vocabulary



List the marked up document(s)



Click “To Excel”

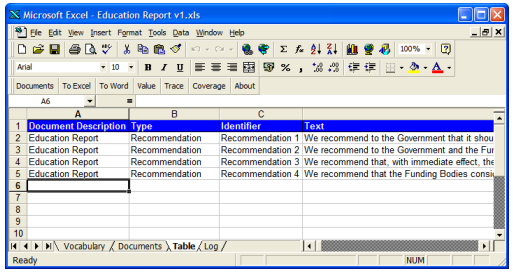


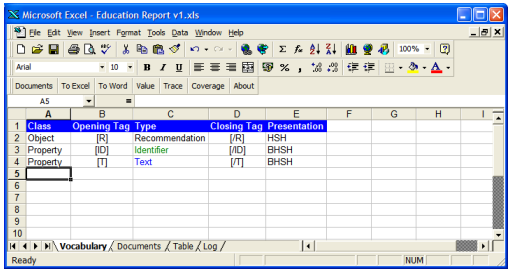
“To Word”

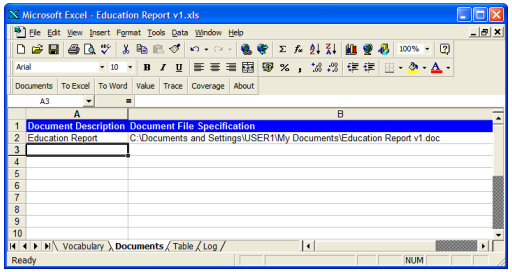
“To Word” updates a virtual table in Word
from a real table in Excel.

Sequence of steps

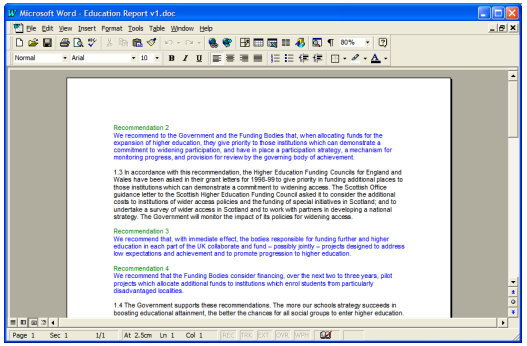
Populate table in Excel → Define markup vocabulary → Select marked up document(s)







Click “To Word”



Continue for a more detailed description of each step...

Populate table in Excel

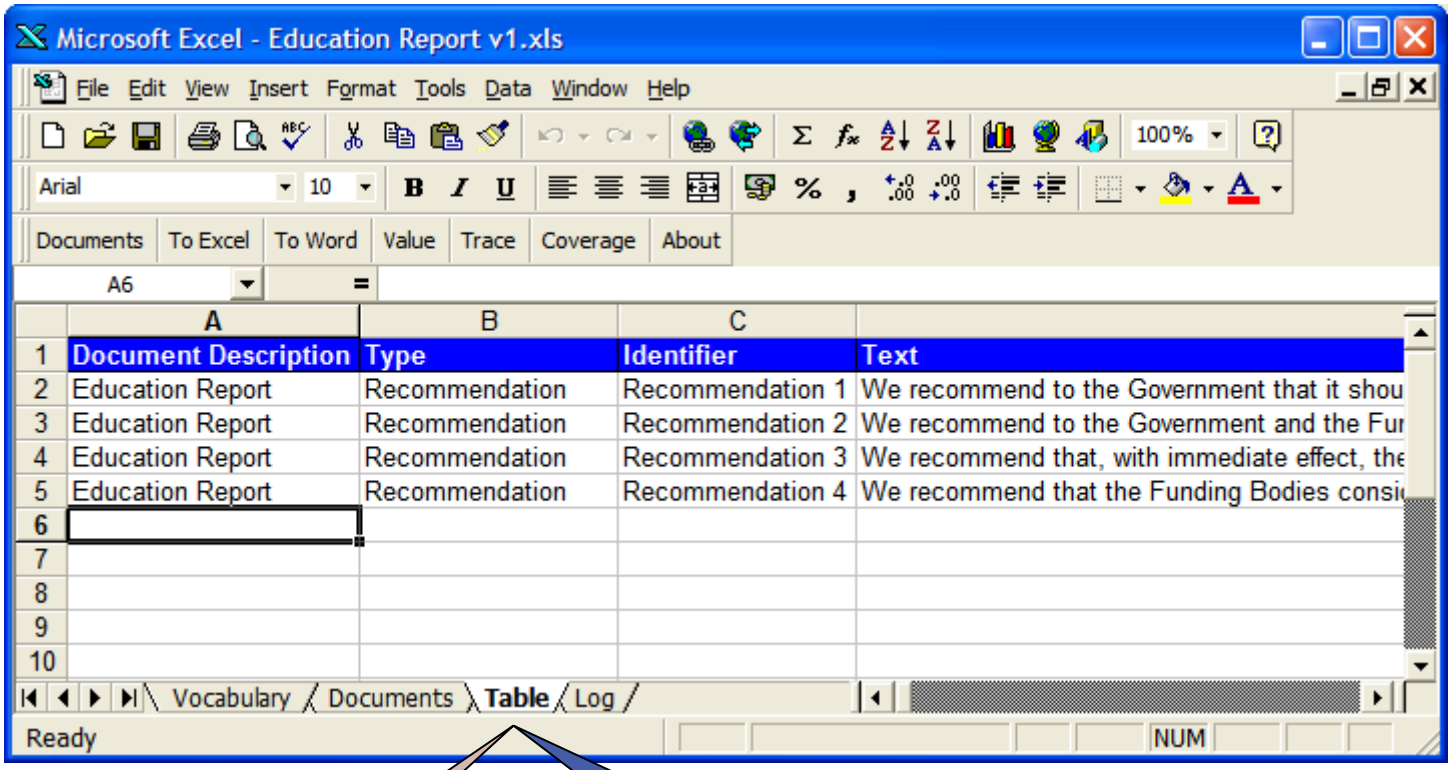
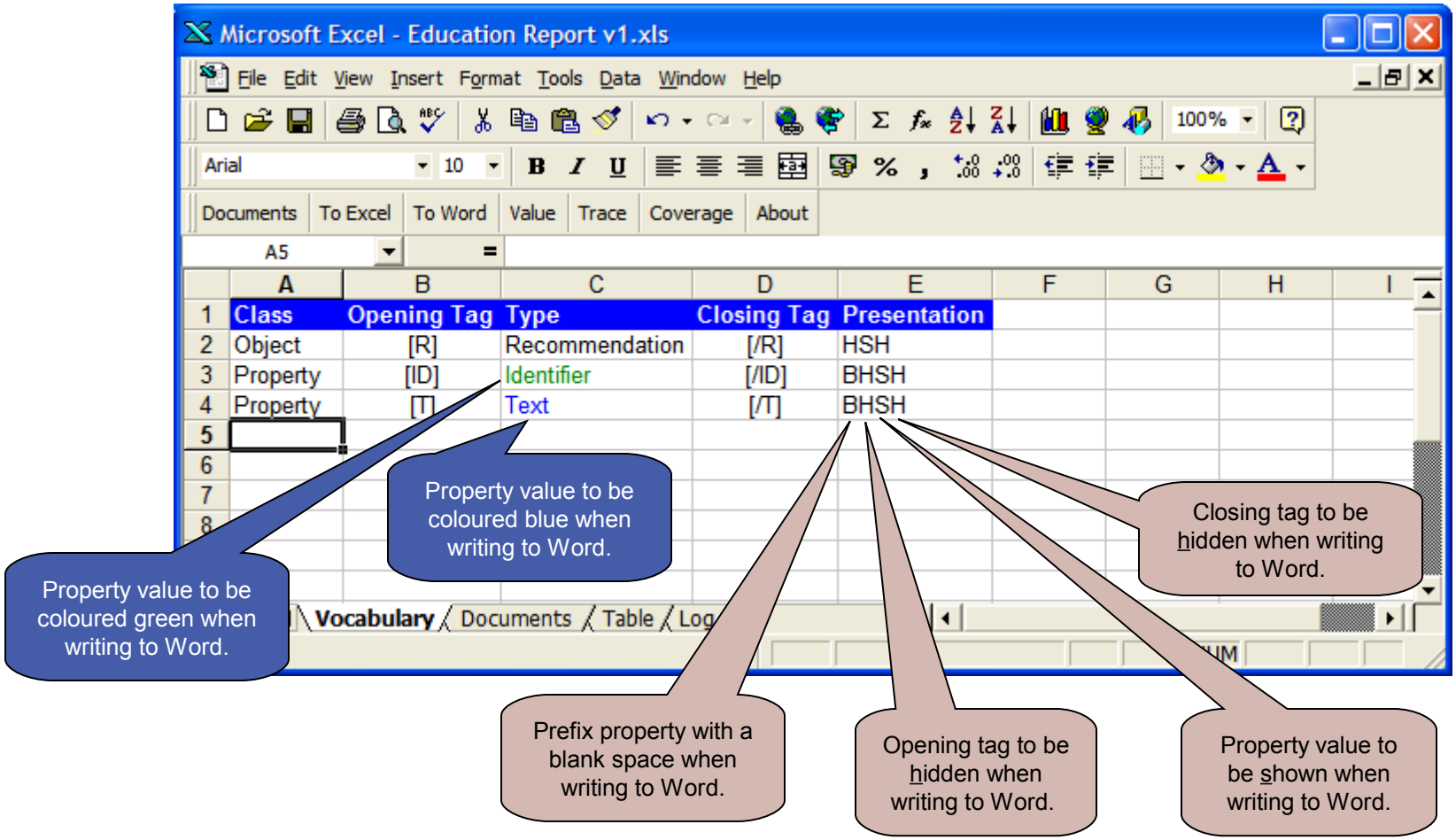


Table worksheet

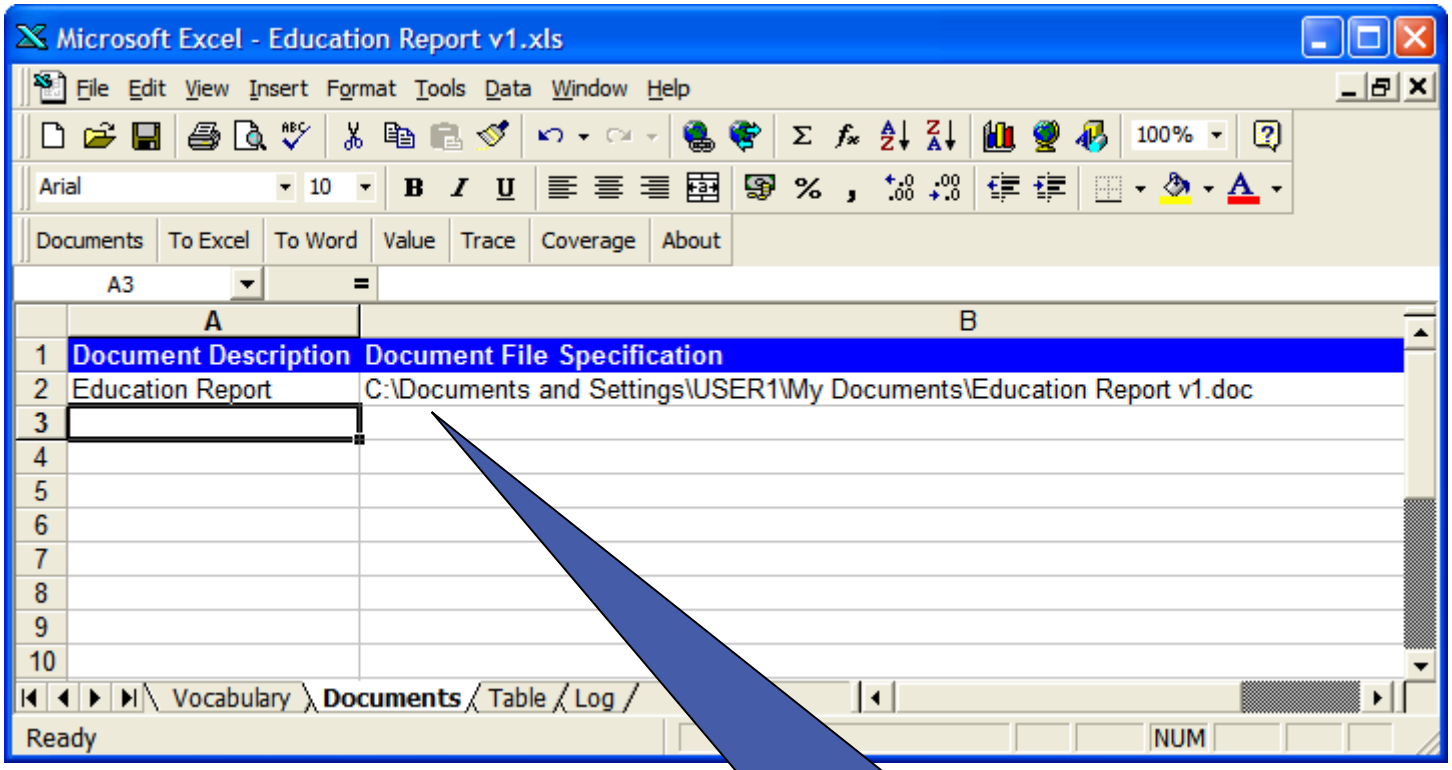
The Table worksheet may be populated from document(s) via “To Excel”.

Define markup vocabulary



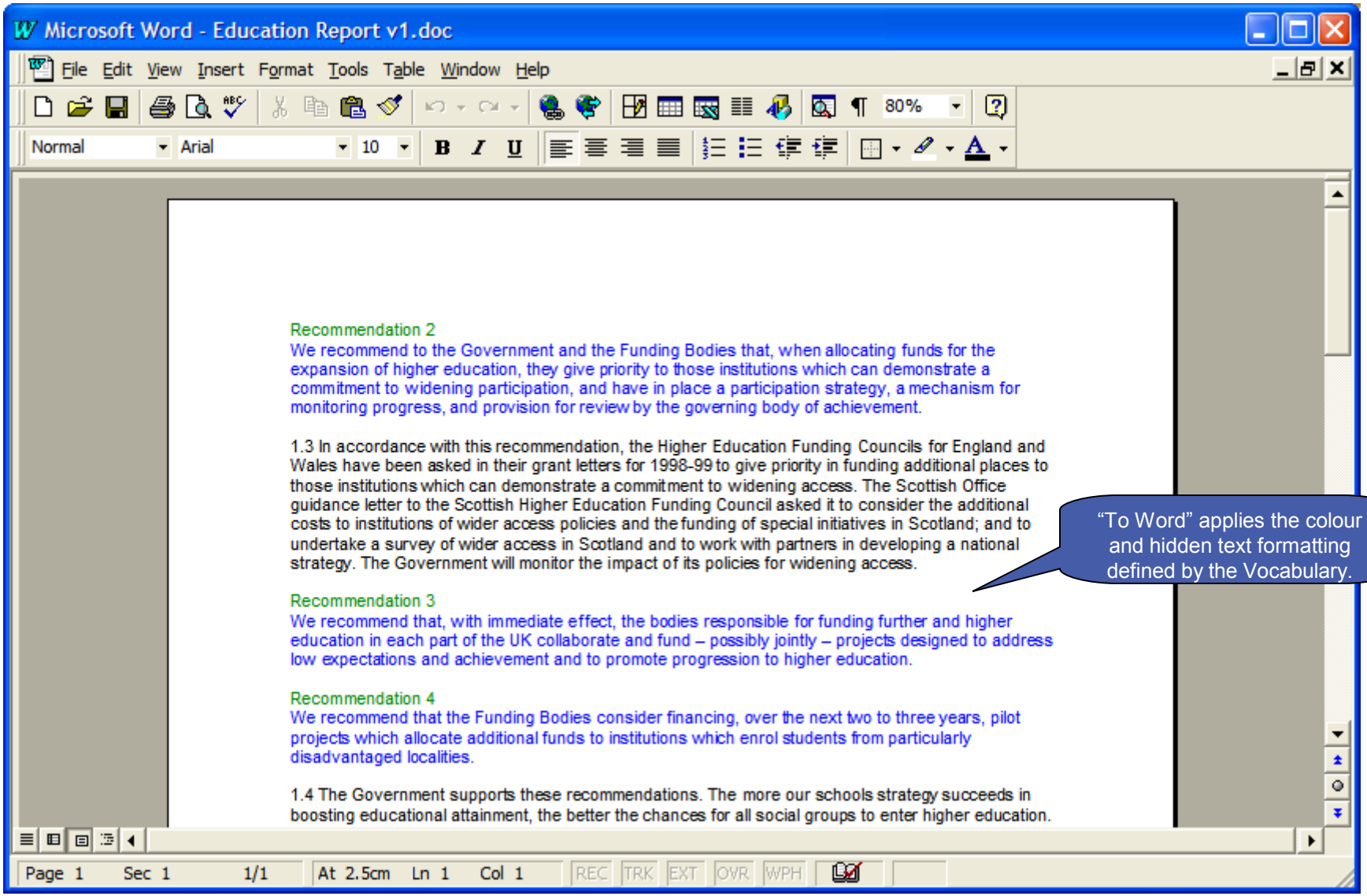
	A	B	C	D	E
1	Class	Opening Tag	Type	Closing Tag	Presentation
2	Object	[R]	Recommendation	[/R]	HSH
3	Property	[ID]	Identifier	[/ID]	BHSH
4	Property	[T]	Text	[/T]	BHSH

Select marked up document(s)

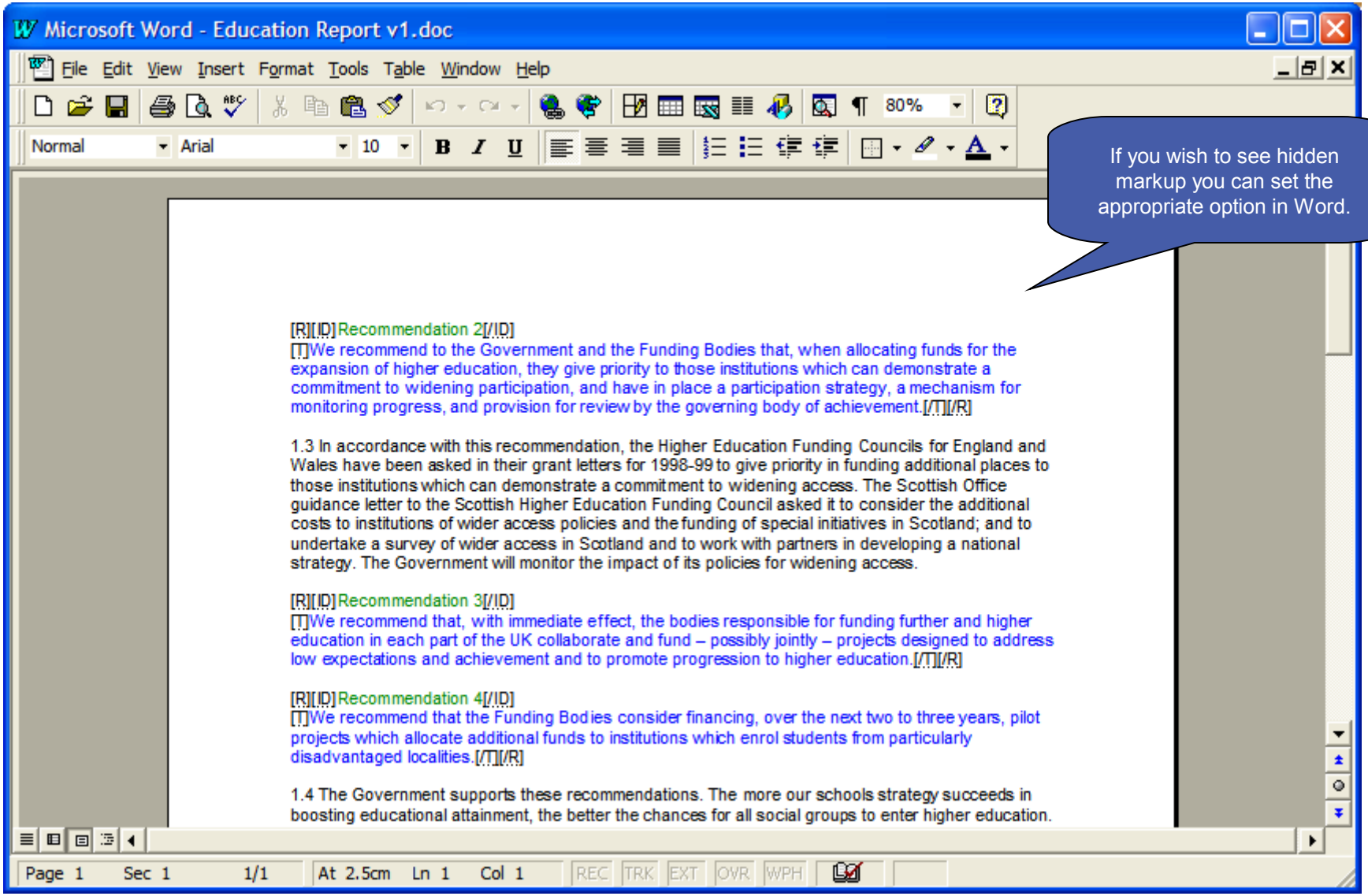


"To Word" will look for objects in the listed documents and update their properties, delete them or add new objects according to the contents of the "Table" worksheet.

Click “To Word”



Revealing hidden markup in Word

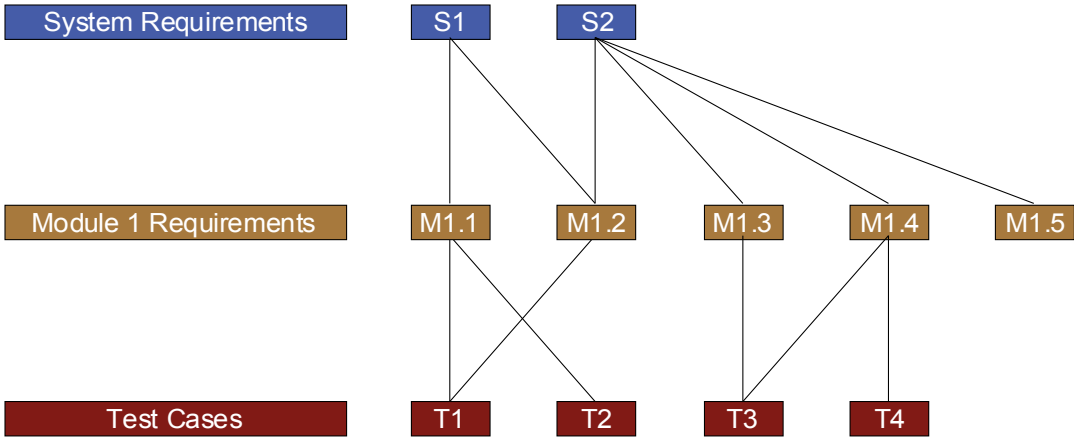


“Trace”

“Trace” creates a traceability matrix.

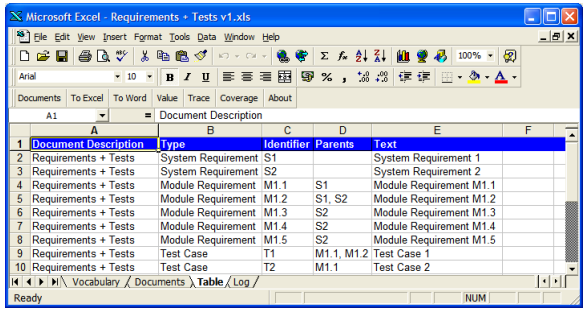
Scenario...

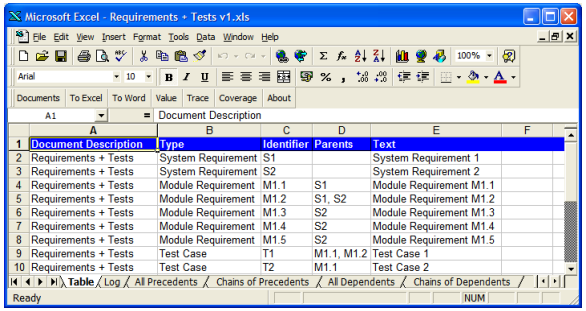
Scenario: you have a set of system requirements, module requirements and some test case; the system requirements are parents to the module requirements; the module requirements are parents to the test cases. The relationships are illustrated below.

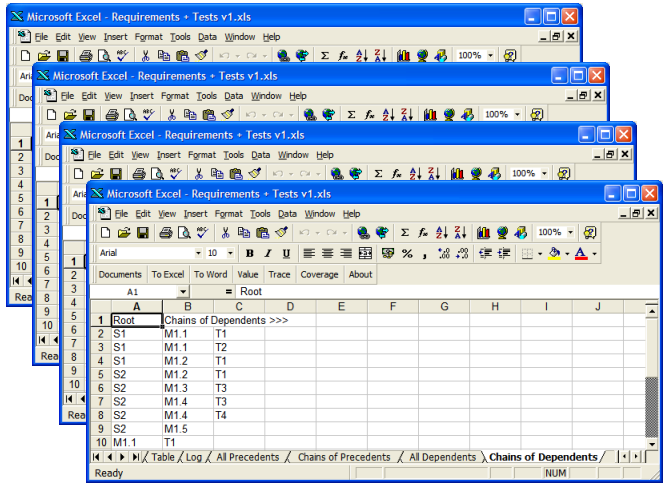


Sequence of steps

Populate the “Table” worksheet → Click “Trace” → Examine output worksheets

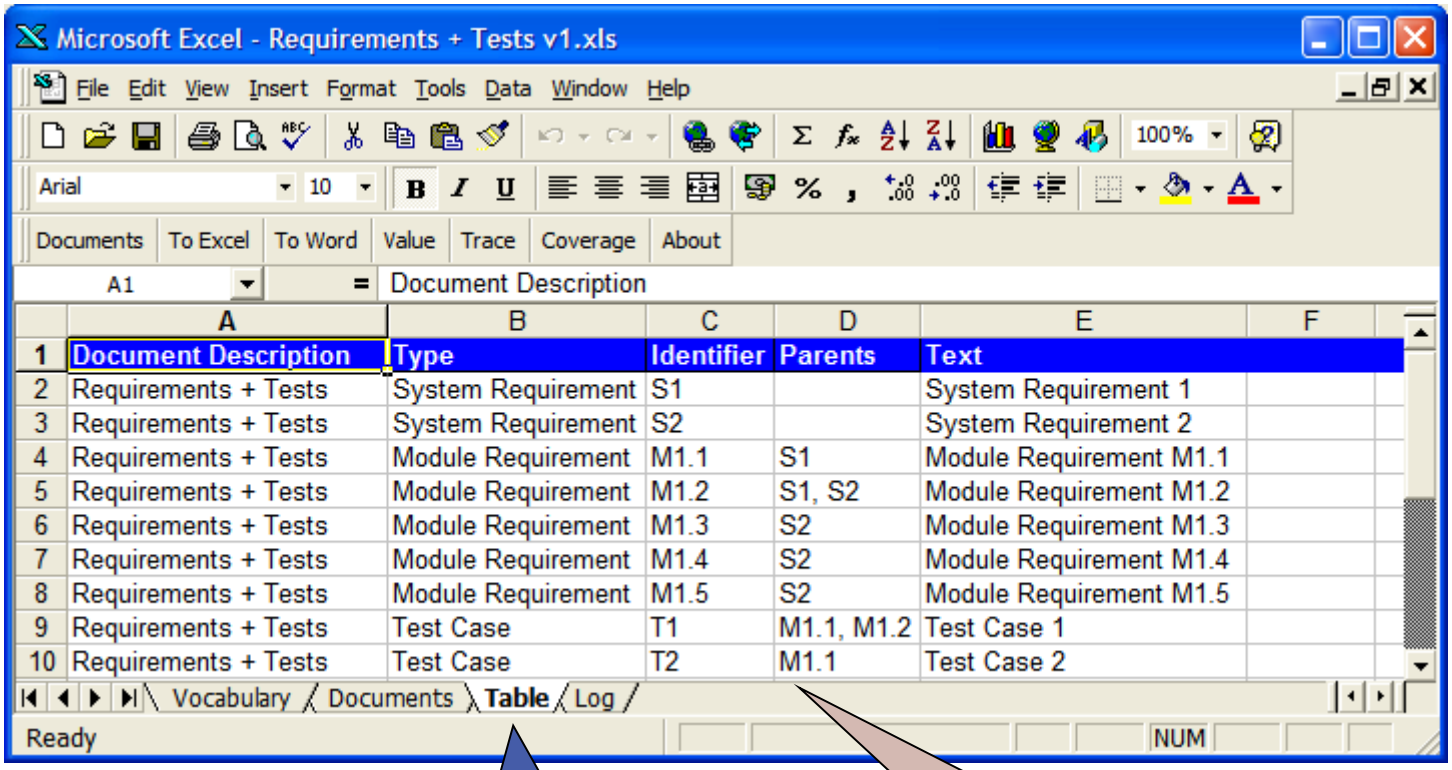






Continue for a more detailed description of each step...

Populate the “Table” worksheet

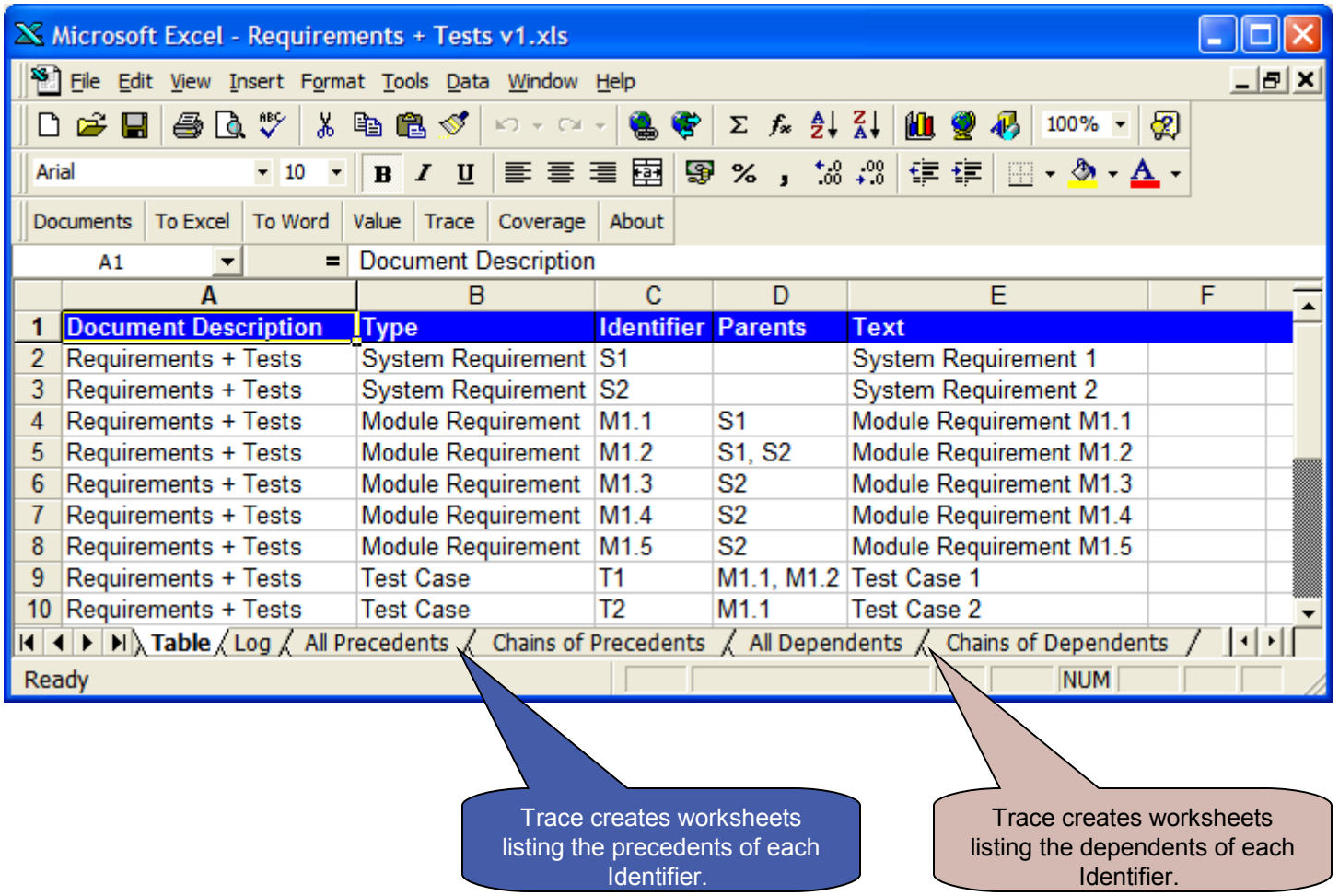


	A	B	C	D	E	F
1	Document Description	Type	Identifier	Parents	Text	
2	Requirements + Tests	System Requirement	S1		System Requirement 1	
3	Requirements + Tests	System Requirement	S2		System Requirement 2	
4	Requirements + Tests	Module Requirement	M1.1	S1	Module Requirement M1.1	
5	Requirements + Tests	Module Requirement	M1.2	S1, S2	Module Requirement M1.2	
6	Requirements + Tests	Module Requirement	M1.3	S2	Module Requirement M1.3	
7	Requirements + Tests	Module Requirement	M1.4	S2	Module Requirement M1.4	
8	Requirements + Tests	Module Requirement	M1.5	S2	Module Requirement M1.5	
9	Requirements + Tests	Test Case	T1	M1.1, M1.2	Test Case 1	
10	Requirements + Tests	Test Case	T2	M1.1	Test Case 2	

The Table worksheet may be populated from document(s) via “To Excel”.

Each object with a parent(s) must have a “Parents” property listing the identifiers of its parent(s).

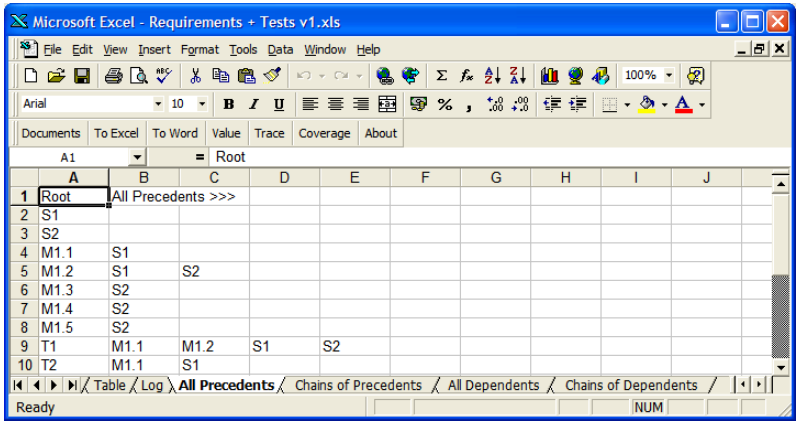
Click “Trace”



	A	B	C	D	E	F
1	Document Description	Type	Identifier	Parents	Text	
2	Requirements + Tests	System Requirement	S1		System Requirement 1	
3	Requirements + Tests	System Requirement	S2		System Requirement 2	
4	Requirements + Tests	Module Requirement	M1.1	S1	Module Requirement M1.1	
5	Requirements + Tests	Module Requirement	M1.2	S1, S2	Module Requirement M1.2	
6	Requirements + Tests	Module Requirement	M1.3	S2	Module Requirement M1.3	
7	Requirements + Tests	Module Requirement	M1.4	S2	Module Requirement M1.4	
8	Requirements + Tests	Module Requirement	M1.5	S2	Module Requirement M1.5	
9	Requirements + Tests	Test Case	T1	M1.1, M1.2	Test Case 1	
10	Requirements + Tests	Test Case	T2	M1.1	Test Case 2	

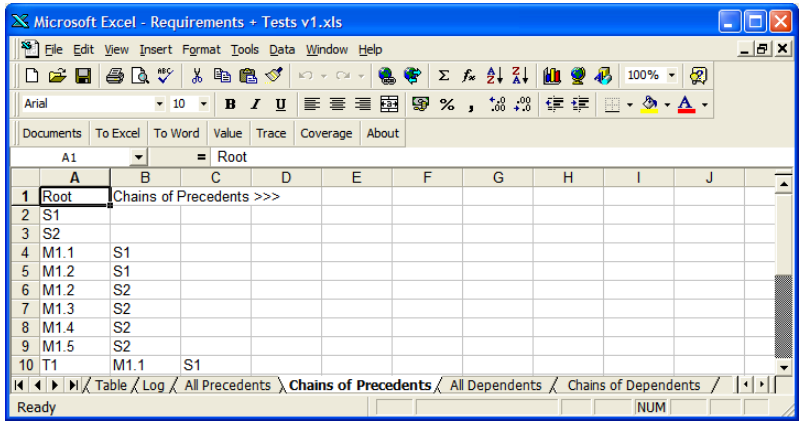
Examine output worksheets

"All Precedents" worksheet

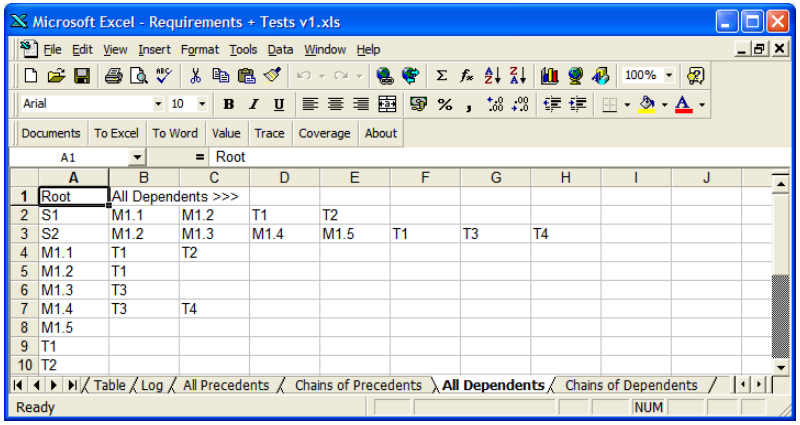


	A	B	C	D	E
1	Root	All Precedents >>>			
2	S1				
3	S2				
4	M1.1	S1			
5	M1.2	S1	S2		
6	M1.3	S2			
7	M1.4	S2			
8	M1.5	S2			
9	T1	M1.1	M1.2	S1	S2
10	T2	M1.1	S1		

"Chains of Precedents" worksheet

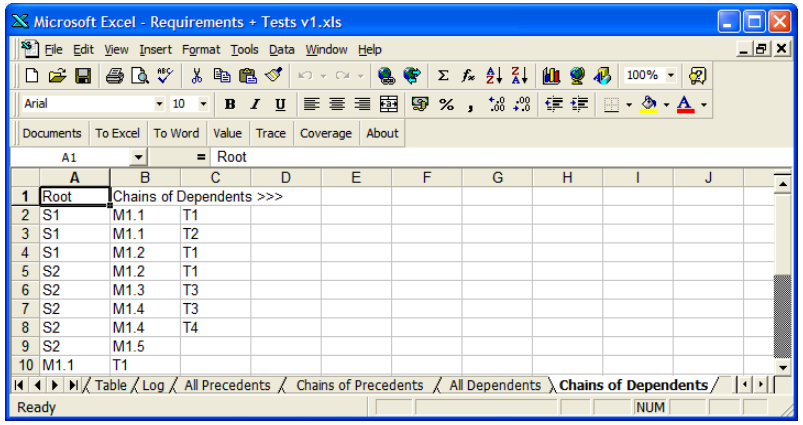


	A	B	C	D	E
1	Root	Chains of Precedents >>>			
2	S1				
3	S2				
4	M1.1	S1			
5	M1.2	S1			
6	M1.2	S2			
7	M1.3	S2			
8	M1.4	S2			
9	M1.5	S2			
10	T1	M1.1	S1		



	A	B	C	D	E	F	G	H
1	Root	All Dependents >>>						
2	S1	M1.1	M1.2	T1	T2			
3	S2	M1.2	M1.3	M1.4	M1.5	T1	T3	T4
4	M1.1	T1	T2					
5	M1.2	T1						
6	M1.3	T3						
7	M1.4	T3	T4					
8	M1.5							
9	T1							
10	T2							

"All Dependents" worksheet



	A	B	C
1	Root	Chains of Dependents >>>	
2	S1	M1.1	T1
3	S1	M1.1	T2
4	S1	M1.2	T1
5	S2	M1.2	T1
6	S2	M1.3	T3
7	S2	M1.4	T3
8	S2	M1.4	T4
9	S2	M1.5	
10	M1.1	T1	

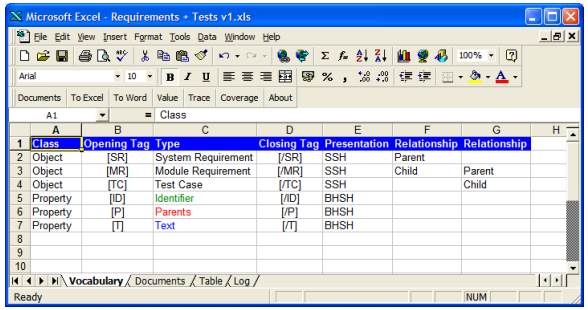
"Chains of Dependents" worksheet

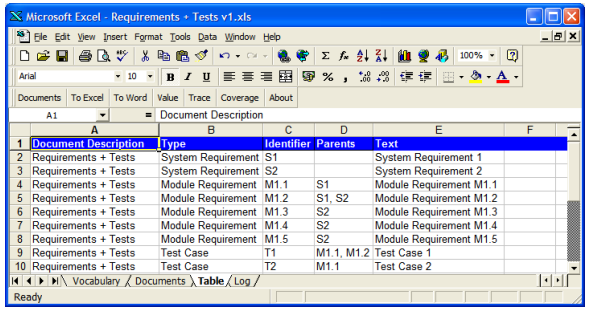
Coverage

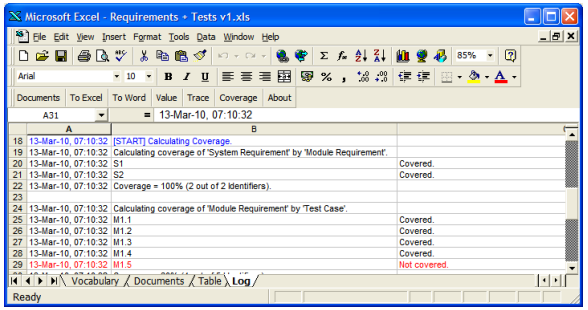
"Coverage" calculates coverage (for example, of requirements by test cases or of findings by actions).

Sequence of steps

Define the relationship between objects → Populate the “Table” worksheet → Click the “Coverage” button on the WTML toolbar. Examine the “Log” worksheet.



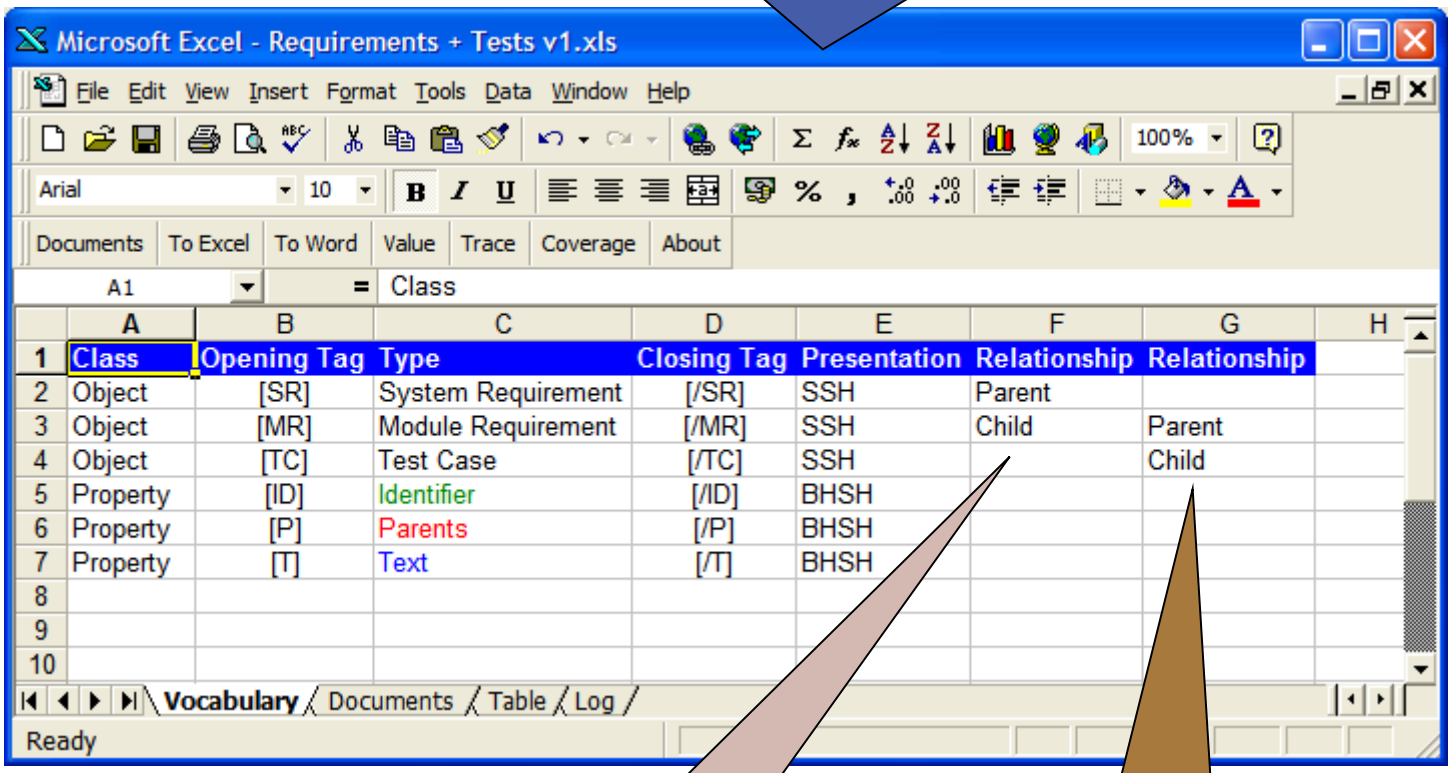




Continue for a more detailed description of each step...

Define the relationship between objects

The user wishes to check if:
- Every system requirement is covered by a module requirement.
- Every module requirement is covered by a test case.

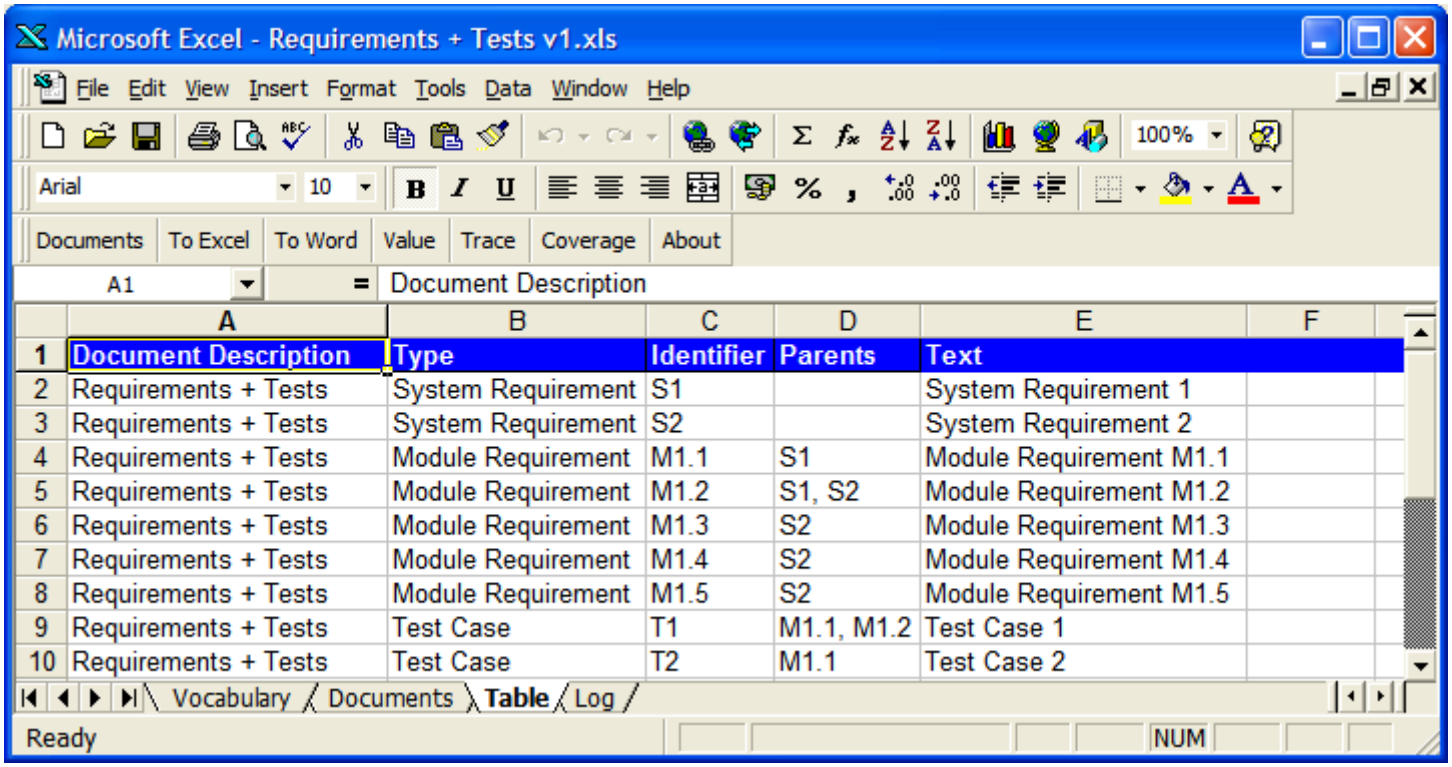


	A	B	C	D	E	F	G
1	Class	Opening Tag	Type	Closing Tag	Presentation	Relationship	Relationship
2	Object	[SR]	System Requirement	[/SR]	SSH	Parent	
3	Object	[MR]	Module Requirement	[/MR]	SSH	Child	Parent
4	Object	[TC]	Test Case	[/TC]	SSH		Child
5	Property	[ID]	Identifier	[/ID]	BHSH		
6	Property	[P]	Parents	[/P]	BHSH		
7	Property	[T]	Text	[/T]	BHSH		
8							
9							
10							

"System Requirement" is parent to "Module Requirement".

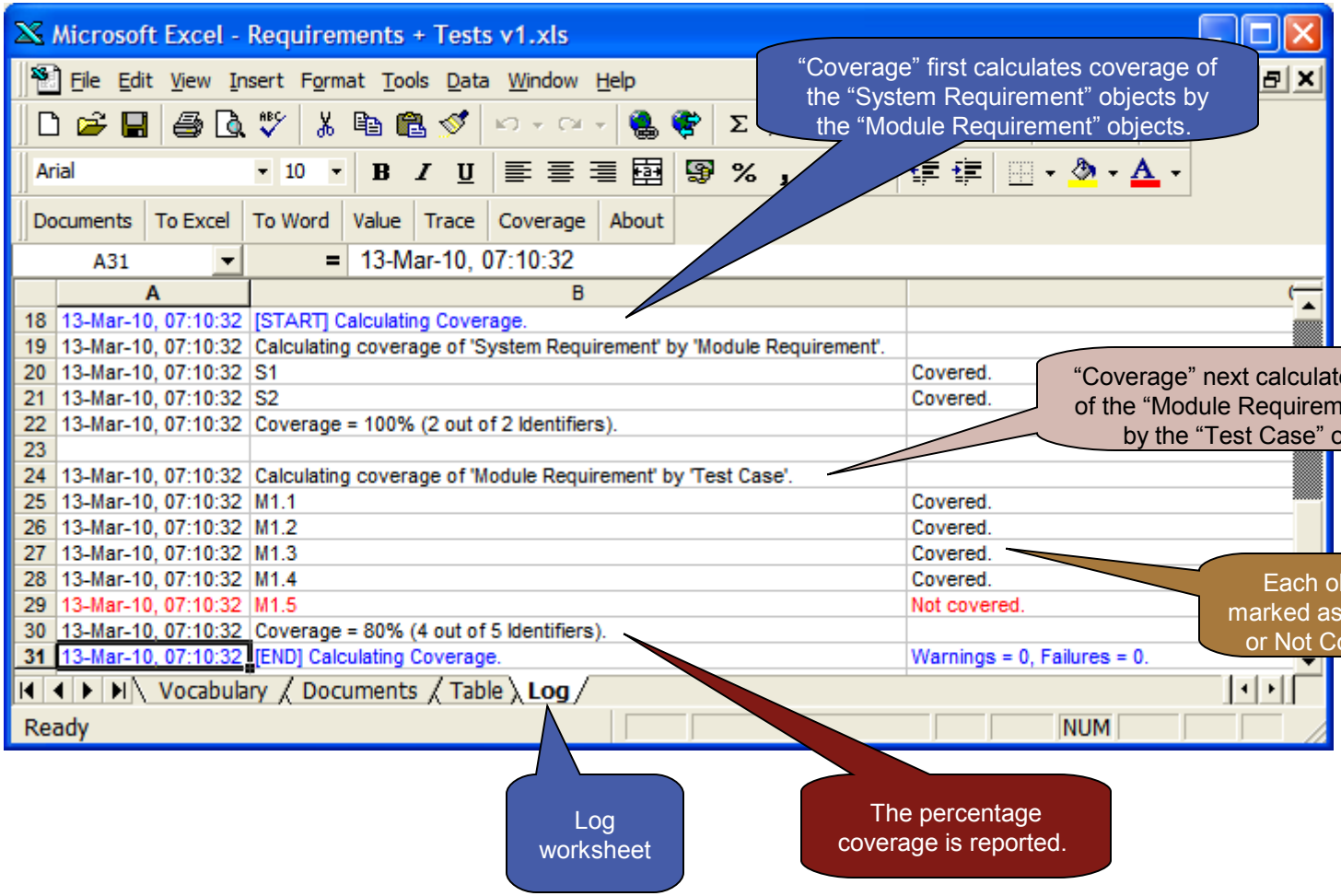
"Module Requirement" is parent to "Test Case".

Populate the “Table” worksheet



	A	B	C	D	E	F
1	Document Description	Type	Identifier	Parents	Text	
2	Requirements + Tests	System Requirement	S1		System Requirement 1	
3	Requirements + Tests	System Requirement	S2		System Requirement 2	
4	Requirements + Tests	Module Requirement	M1.1	S1	Module Requirement M1.1	
5	Requirements + Tests	Module Requirement	M1.2	S1, S2	Module Requirement M1.2	
6	Requirements + Tests	Module Requirement	M1.3	S2	Module Requirement M1.3	
7	Requirements + Tests	Module Requirement	M1.4	S2	Module Requirement M1.4	
8	Requirements + Tests	Module Requirement	M1.5	S2	Module Requirement M1.5	
9	Requirements + Tests	Test Case	T1	M1.1, M1.2	Test Case 1	
10	Requirements + Tests	Test Case	T2	M1.1	Test Case 2	

Click “Coverage”.
Examine the “Log” worksheet.

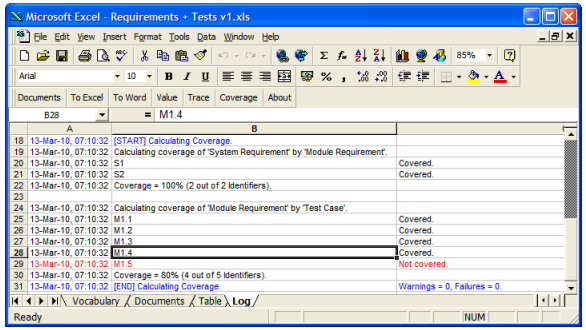


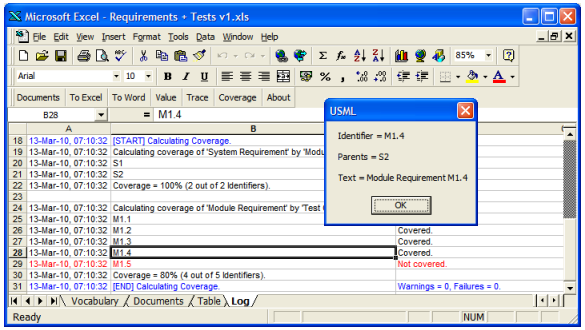
“Value”

“Value” displays the properties of an object.

Sequence of steps

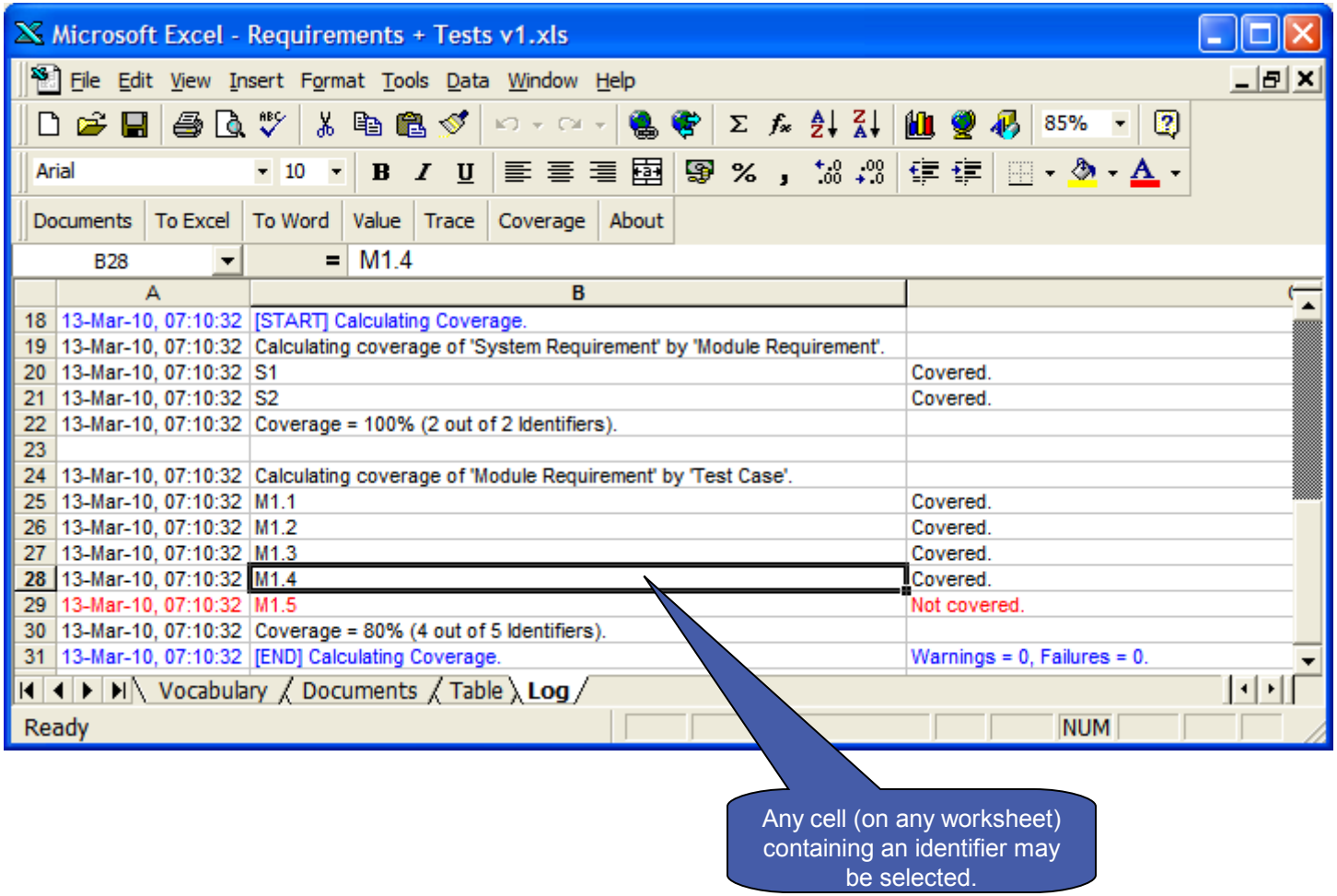
Select an identifier → Click “Value”. Examine the dialog box.



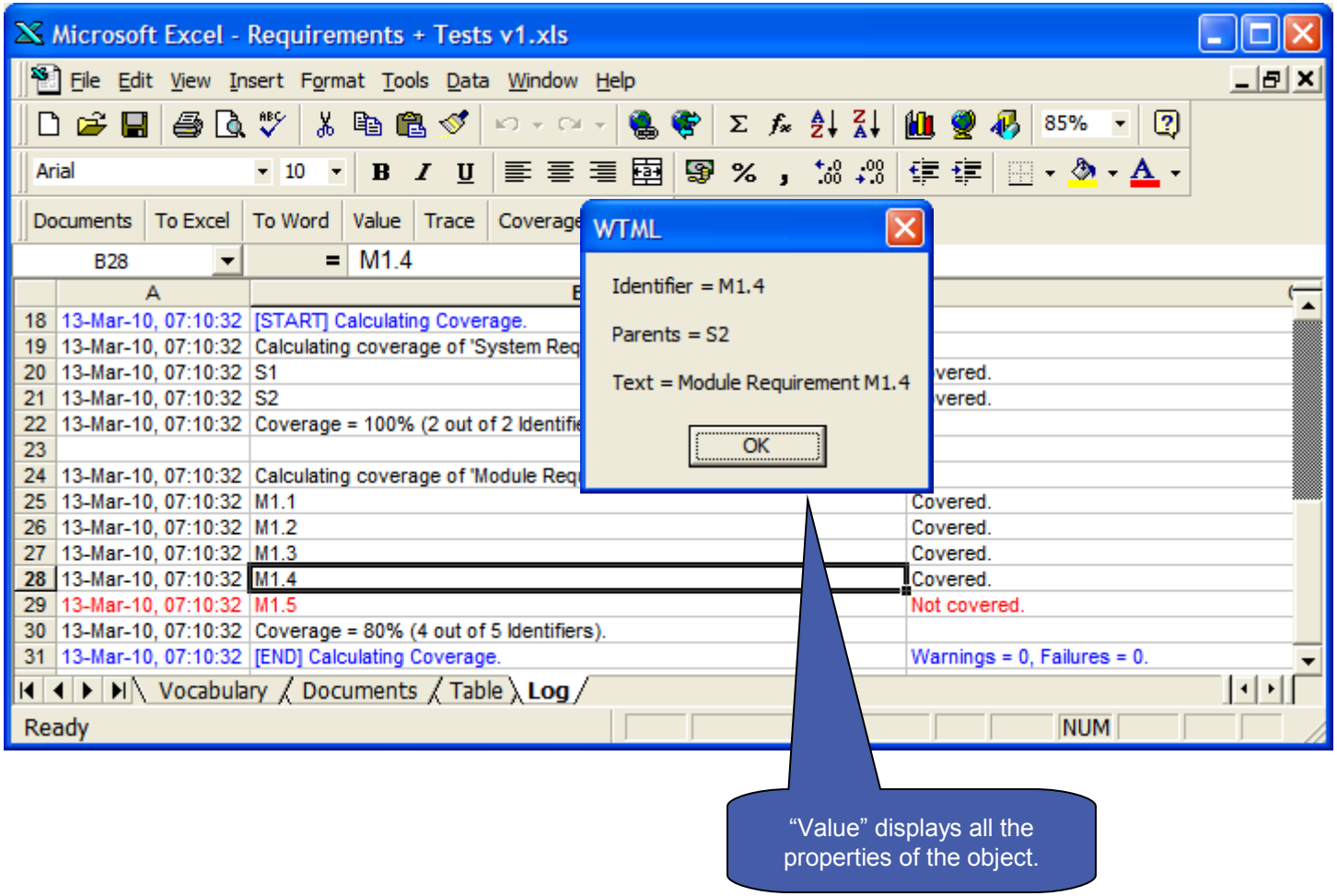


Continue for a more detailed description of each step...

Select an identifier



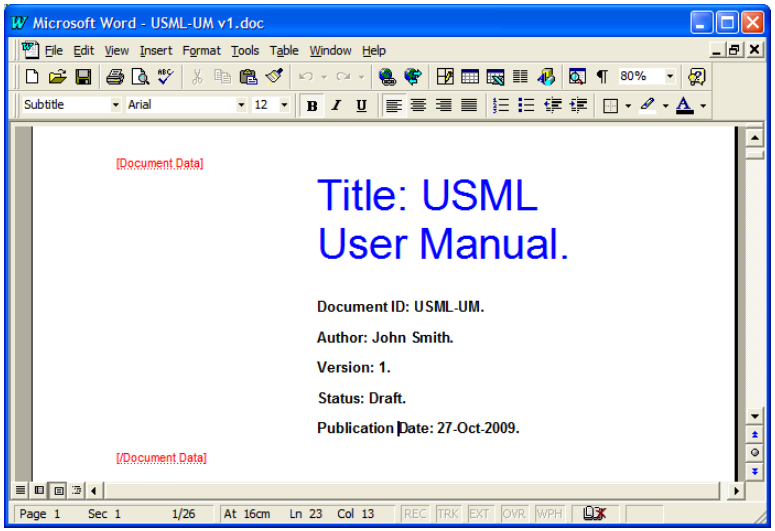
Click “Value”. Examine the dialog box.



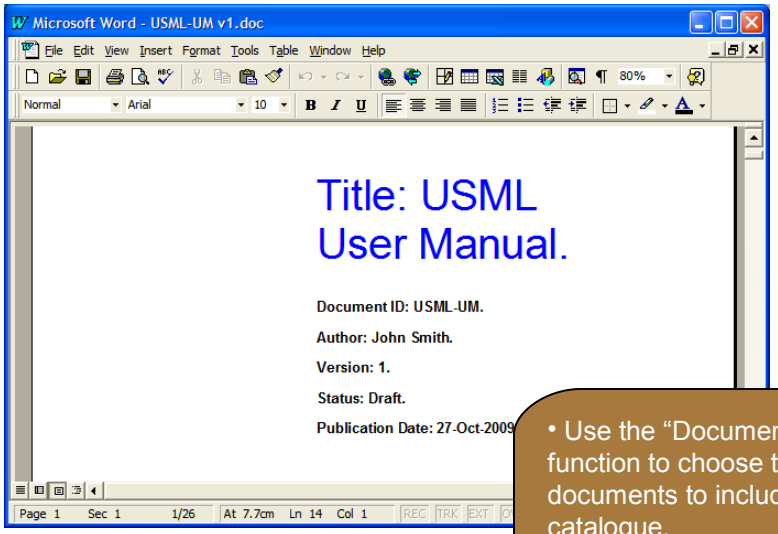
Part 2: Applications

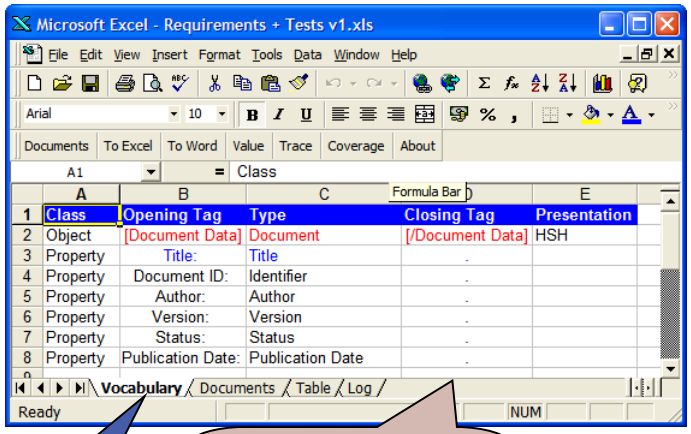
Creating a document catalogue

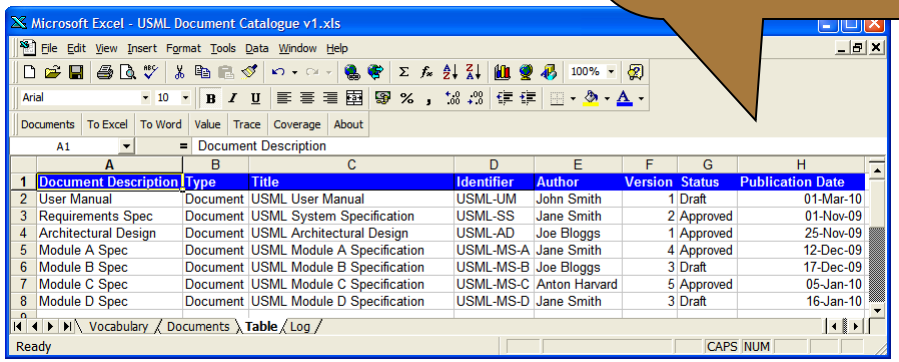
Marked up document (Word options set to show hidden text)



Marked up document (Word options set to hide hidden text)







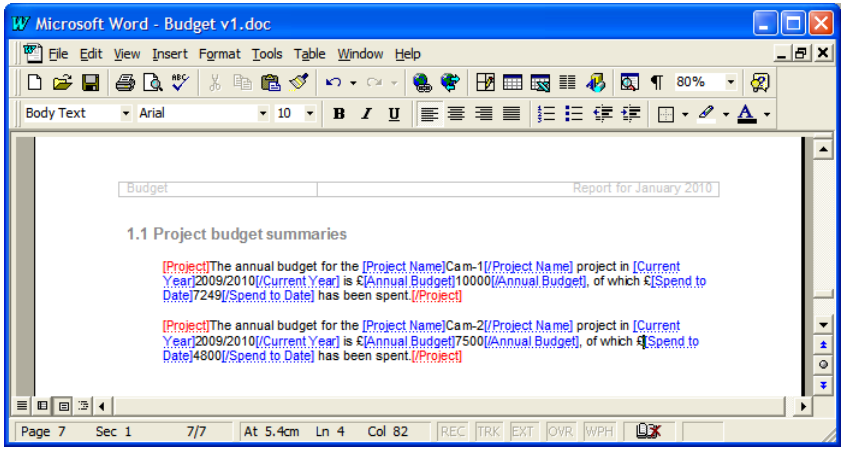
- Use the "Documents" function to choose the documents to include in the catalogue.
- Click "To Excel" to create the catalogue.

Define vocabulary.

A full-stop is used as the closing tag.

Exchanging budget figures between Word and Excel

Marked up document (Word options set to show hidden text)



Marked up document (Word options set to hide hidden text)