

The KAIST logo consists of the letters 'KAIST' in a bold, blue, sans-serif font. A thin blue horizontal line is positioned directly beneath the text.

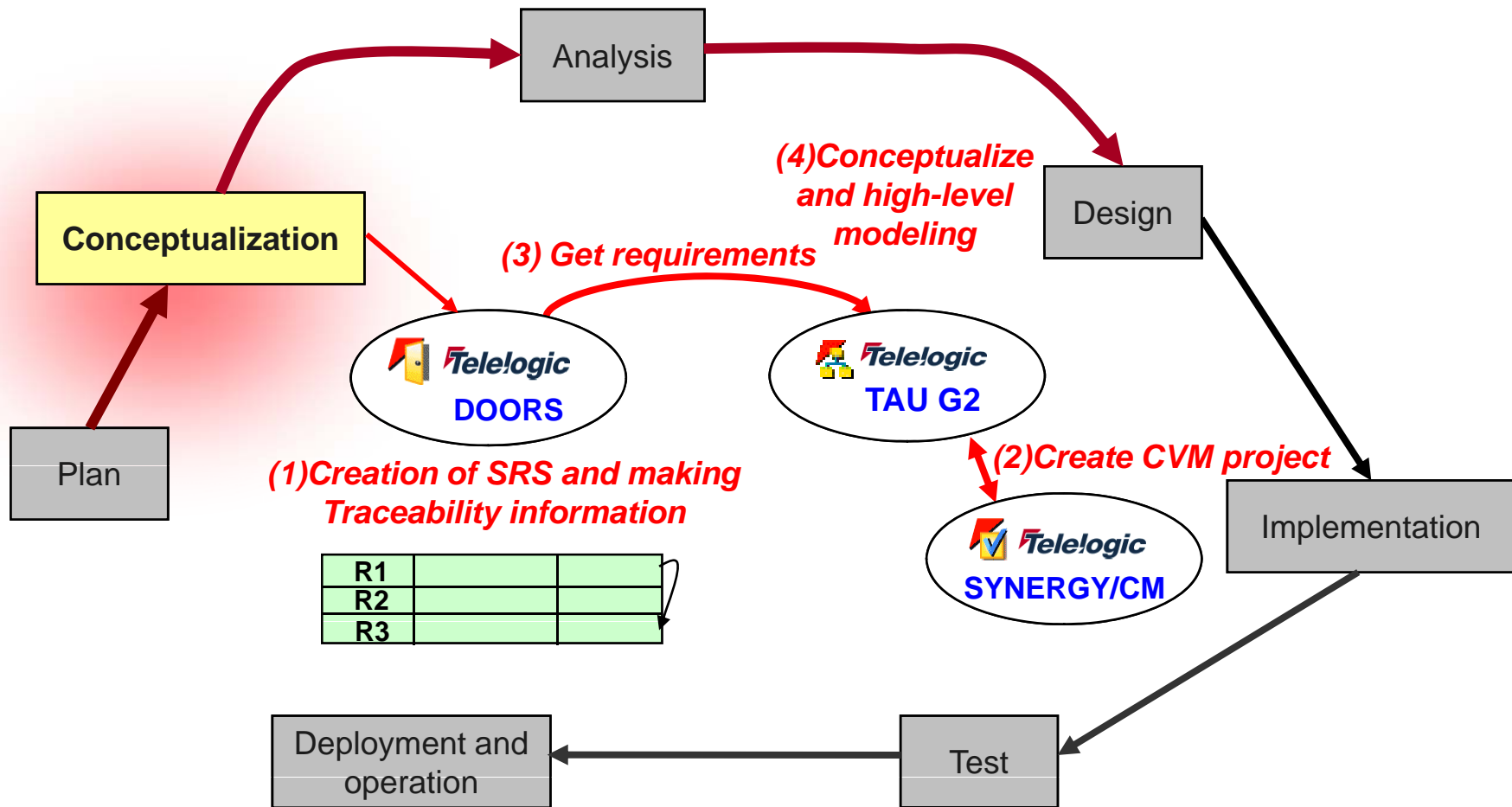
Software Process Improvement Center

Development of Coffee Vending Machine (CVM) using CASE Tools on the Software Development Process

2007. 3. 22-23

Software Process Improvement Center, KAIST

Software Development Overview



Target system overview

- Coffee Vending Machine
 - Provide black, sugar and milk coffee
 - We consider the only simple functions such as “receiving coins”, “making coffee”, and “provide coffee”

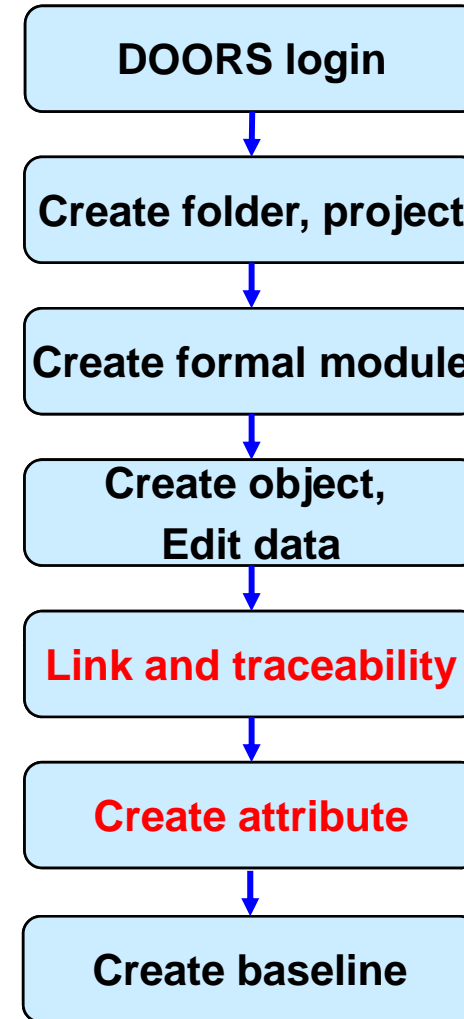


Coffee Vending Machine(CVM)

Overview



CVM
Requirements



CVM Requirements

■ 1. CVM Requirements

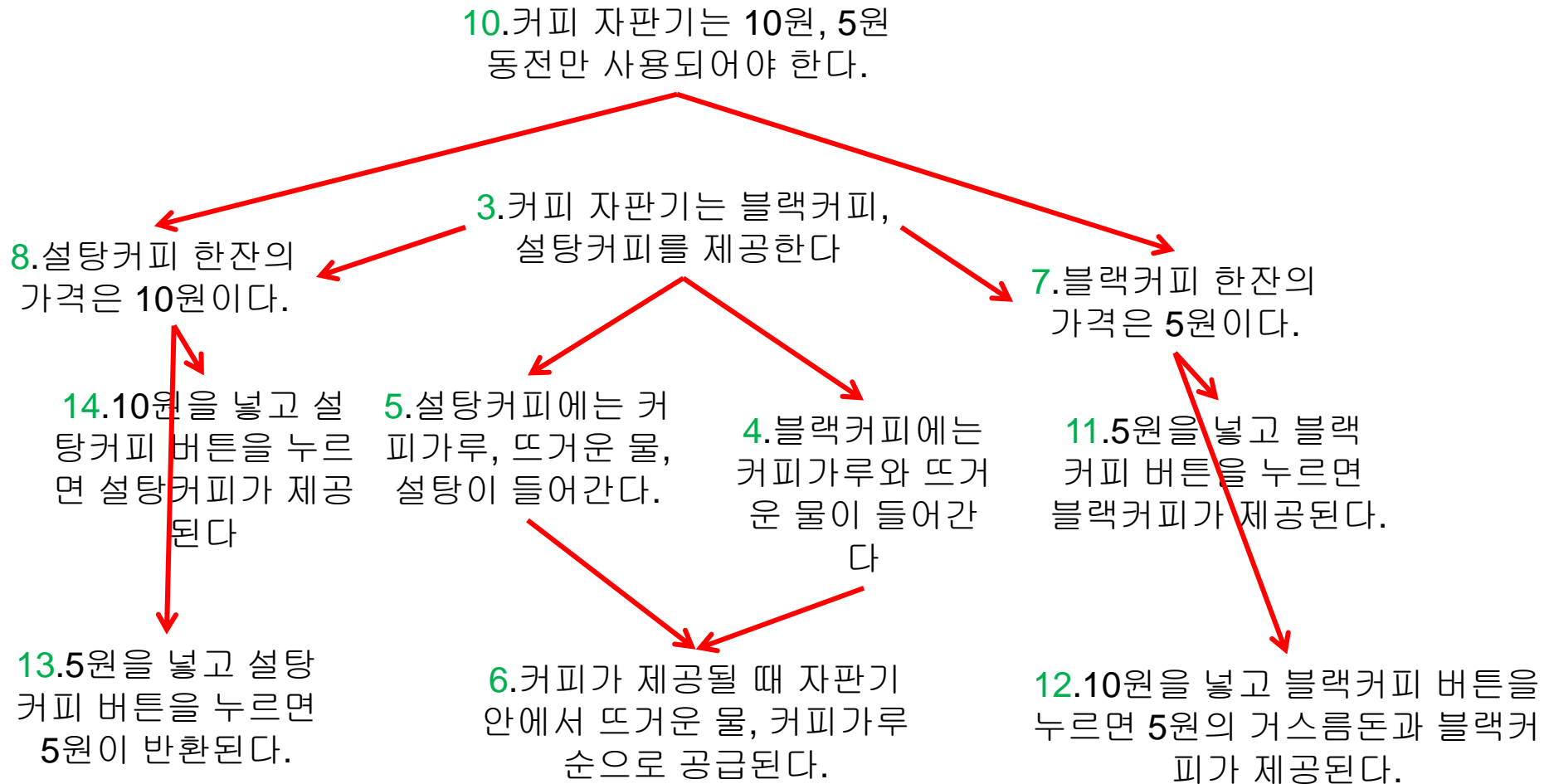
– 1.1 Coffee Requirements

- 커피 자판기는 블랙커피, 설탕커피를 제공한다
- 블랙커피에는 커피가루와 뜨거운 물이 들어간다
- 설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.
- 커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.
- 블랙커피 한잔의 가격은 5원이다.
- 설탕커피 한잔의 가격은 10원이다.

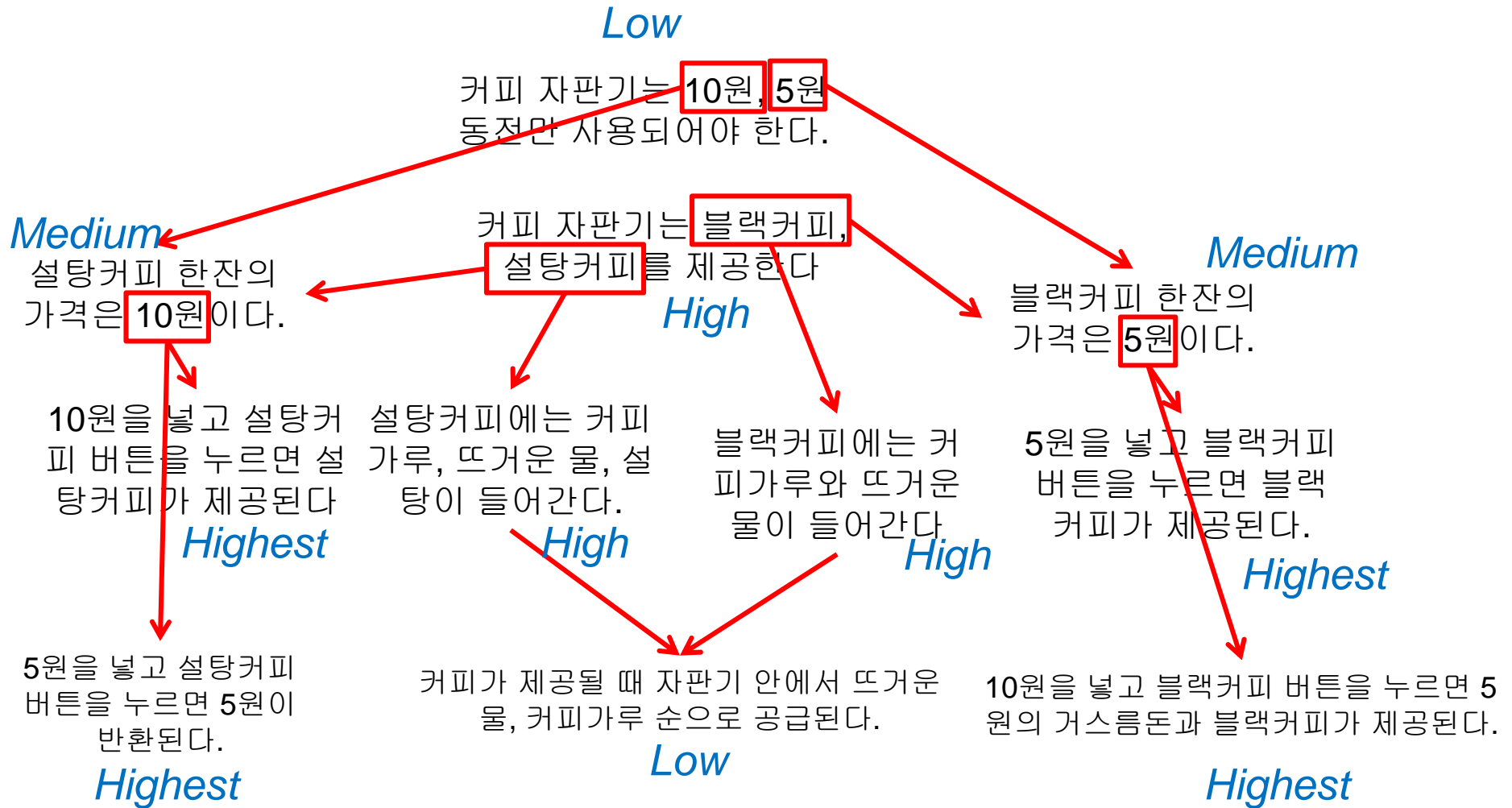
– 1.2 Change Requirements

- 커피 자판기는 5,10원짜리 동전만 사용되어야 한다.
- 5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.
- 10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름돈과 블랙커피가 제공된다.
- 5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.
- 10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다

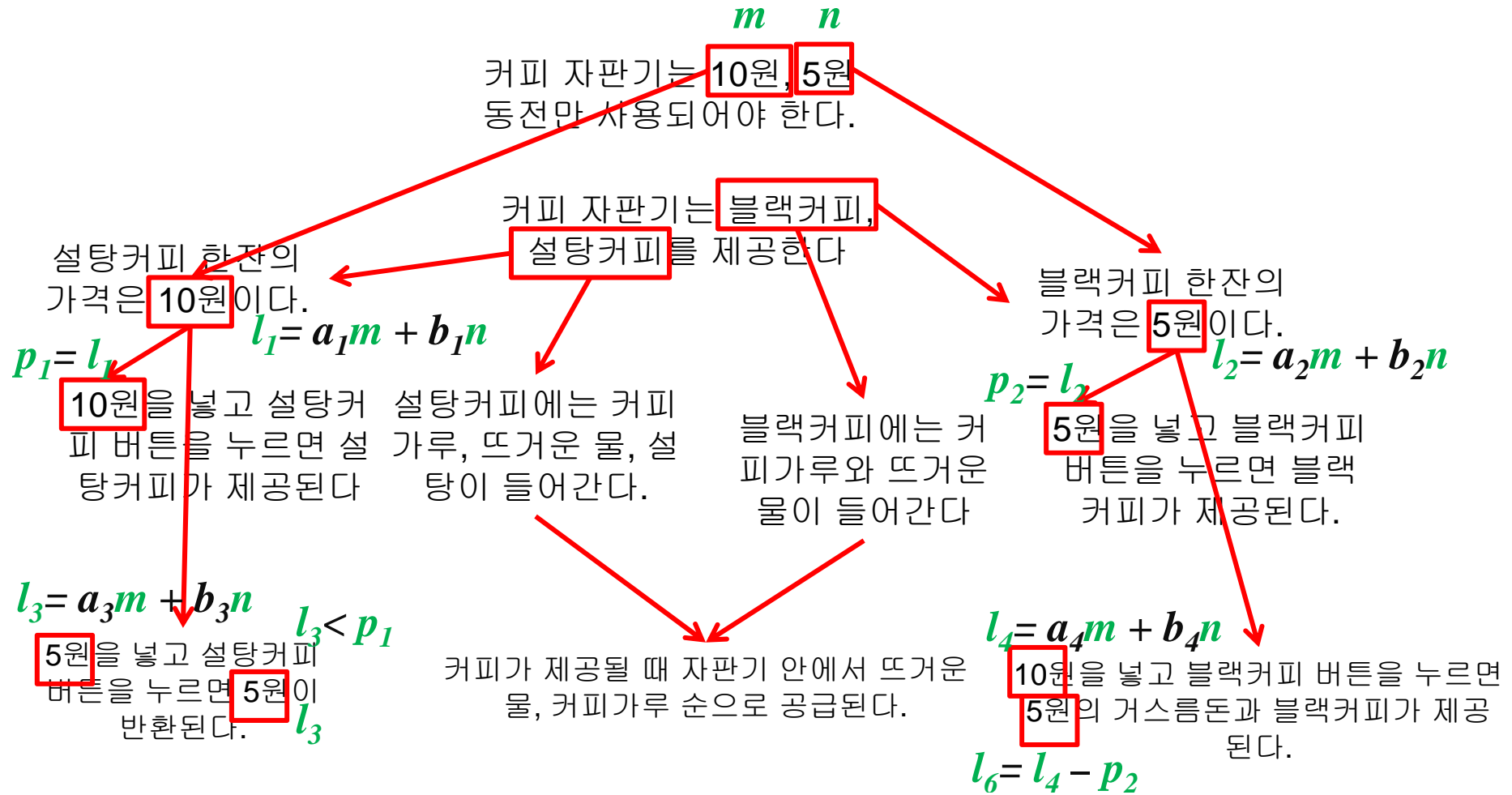
CVM Requirements Structured



CVM Requirements Structured w/ Parameters & Attributes



CVM Requirements Structured w/ Numerical Parameters



Introduction of DOORS

- Doors is
 - Dynamic Object-Oriented Requirements System
 - Requirements management tool
 - Designed to capture, structure, analyze, and manage system and/or software requirements throughout the systems development life cycle
 - Computer database program
 - Scalable for any project size and supports requirements traceability among the requirements and to/from the external specifications
- Benefits
 - Most comprehensive support for recording, **structuring, managing,** and **analyzing requirements** and their **traceability**

DOORS login

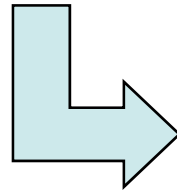
Login - DOORS

Database: 36677@143,248,188

Username: sjwoo

Password: *****

OK Cancel



DOORS Database: / - DOORS

File Edit View Favorites Tools SYNERGY/Change Integration TAU Help

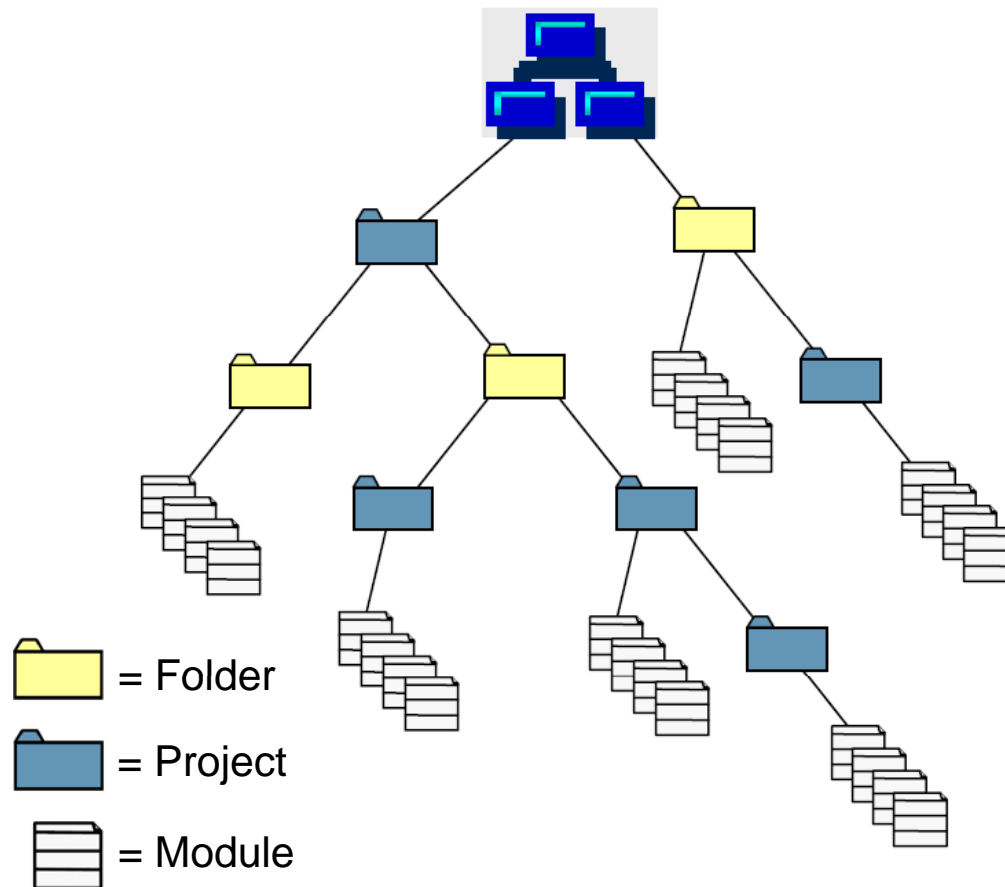
Location: /CoffeeVendingMachine

Name	Type	Descripti
Company project	Project	
DC-Integration	Folder	
DOORSExercise	Folder	DOORS
TelelogicExercise	Folder	DOORS I

Username: sjwoo User type: Database Manager

Folders and projects concepts(1/2)

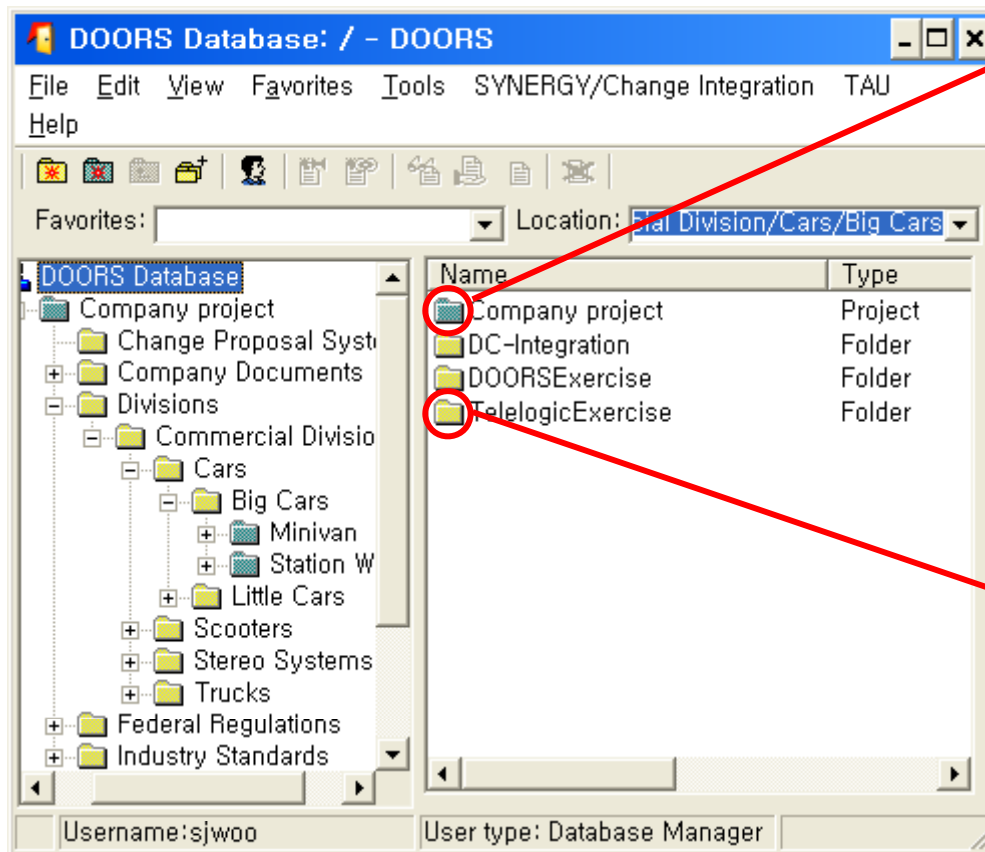
- Database structure example





- Only projects and folders are allowed at the root level
- Data can be organized in:
 - Folders are used to structure data within the project
- Folders may contain Sub-folders, Projects, Modules
 - Projects are the 'work area', (a special type of folder) to manage data for a working project
- Projects may contain Folders, Subprojects, Modules
 - Modules with your current data

Folders and projects concepts(2/2)

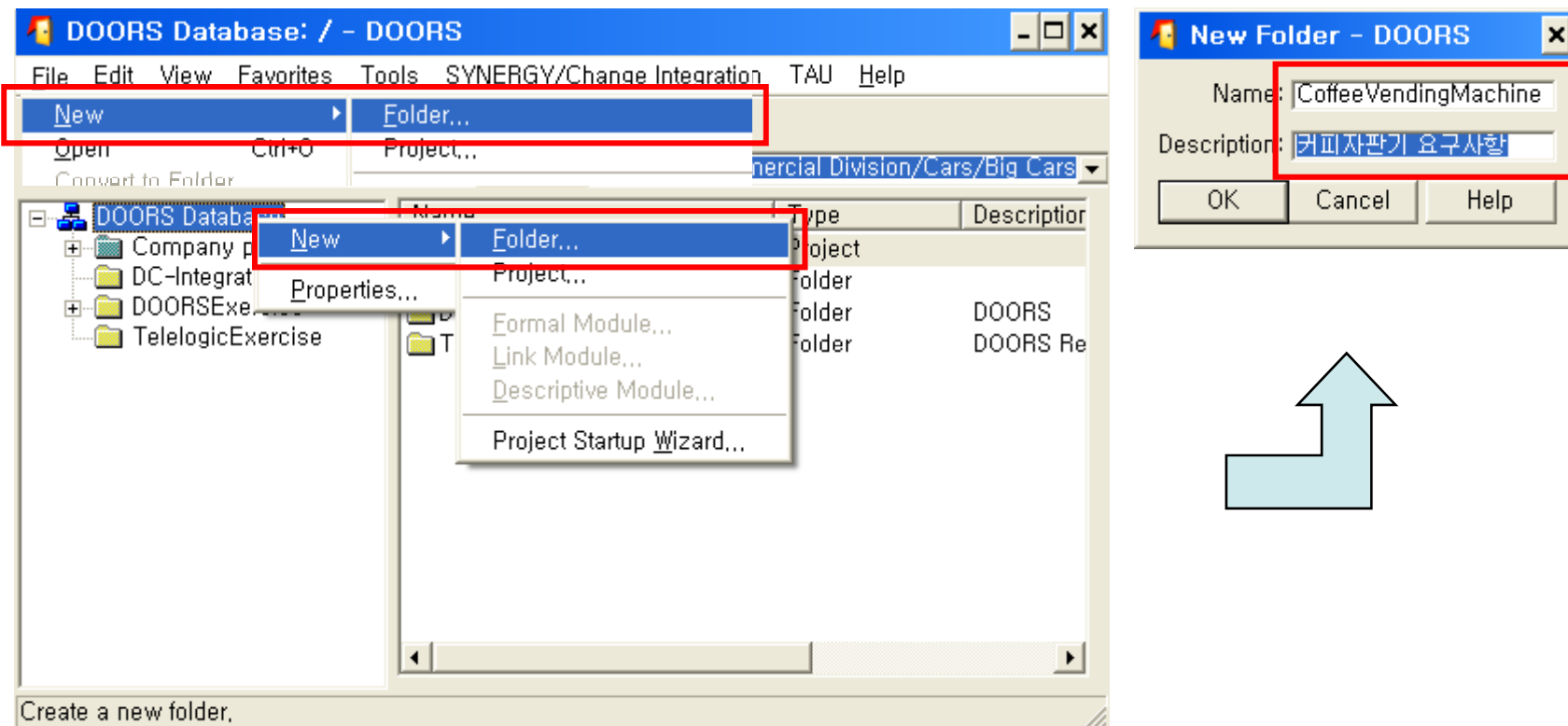
Using folders and projects



- Use a Project for : 
 - Data related to a specific project, product, or process for a team
 - Data that is subject to a high degree of change
 - Data that may need to be partitioned out for distribution to other databases
 - Data that needs to be backed up as archive
- Use a Folder for : 
 - Creating structure and organization
 - Data that is not likely to change
 - Data that does not need to be distributed to other databases

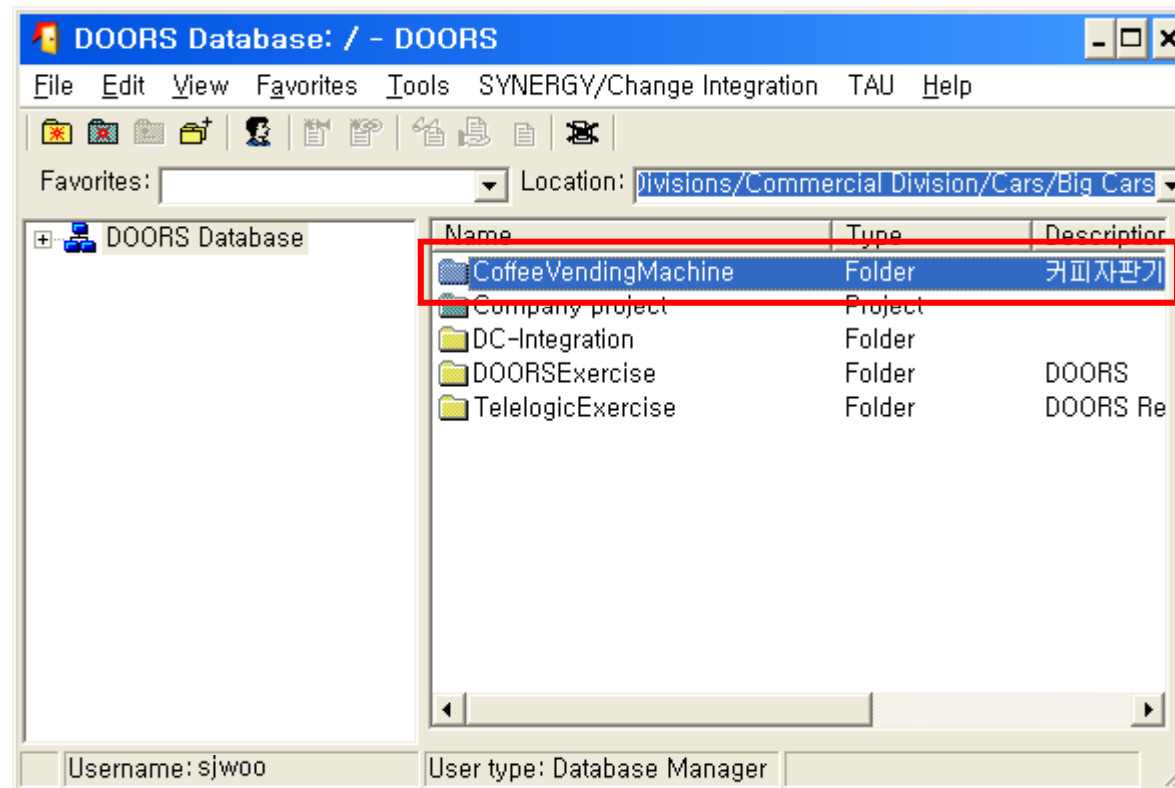
Folder and project(1/4)

- Create folder
 - File → New → Folder or Mouse right button menu
 - Folder name : “CoffeeVendingMachine_ID”



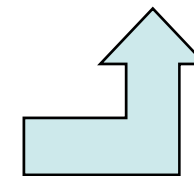
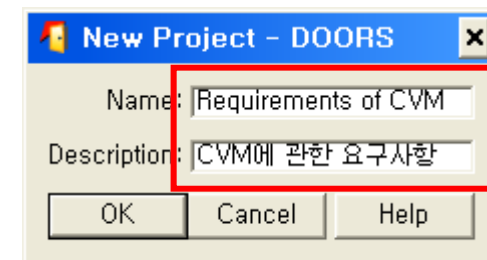
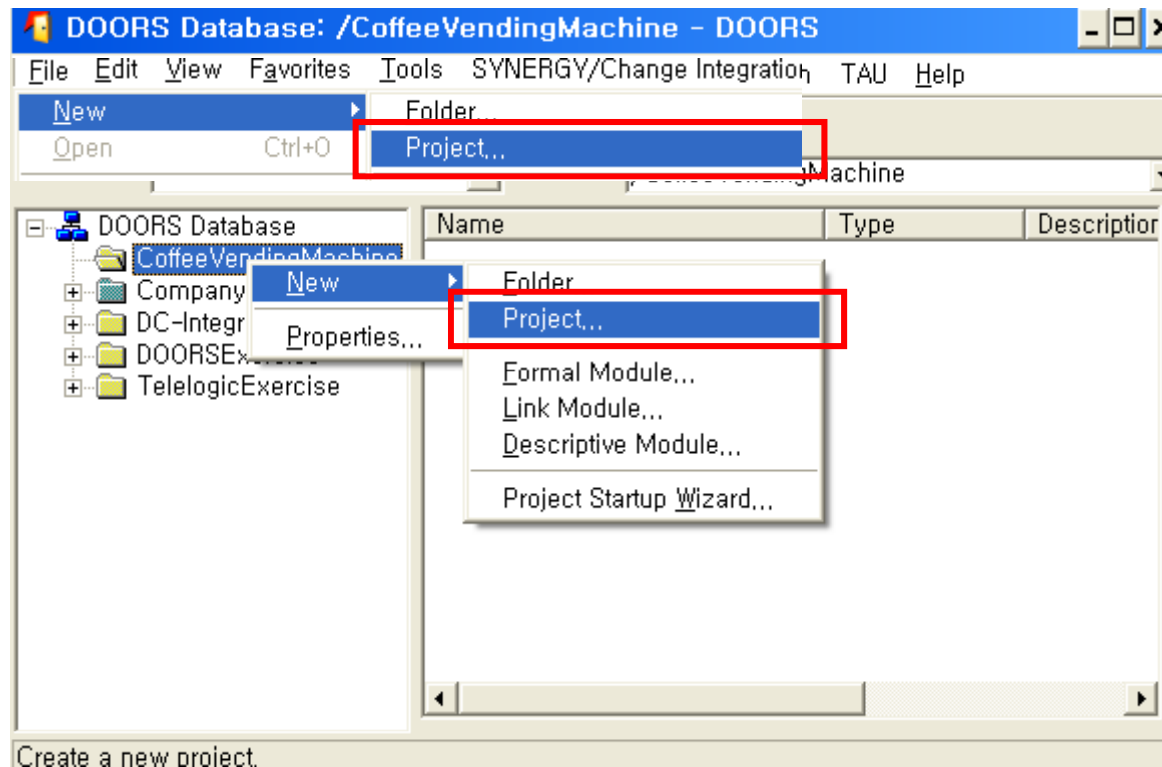
Folder and project(2/4)

- Create folder(cont'd)



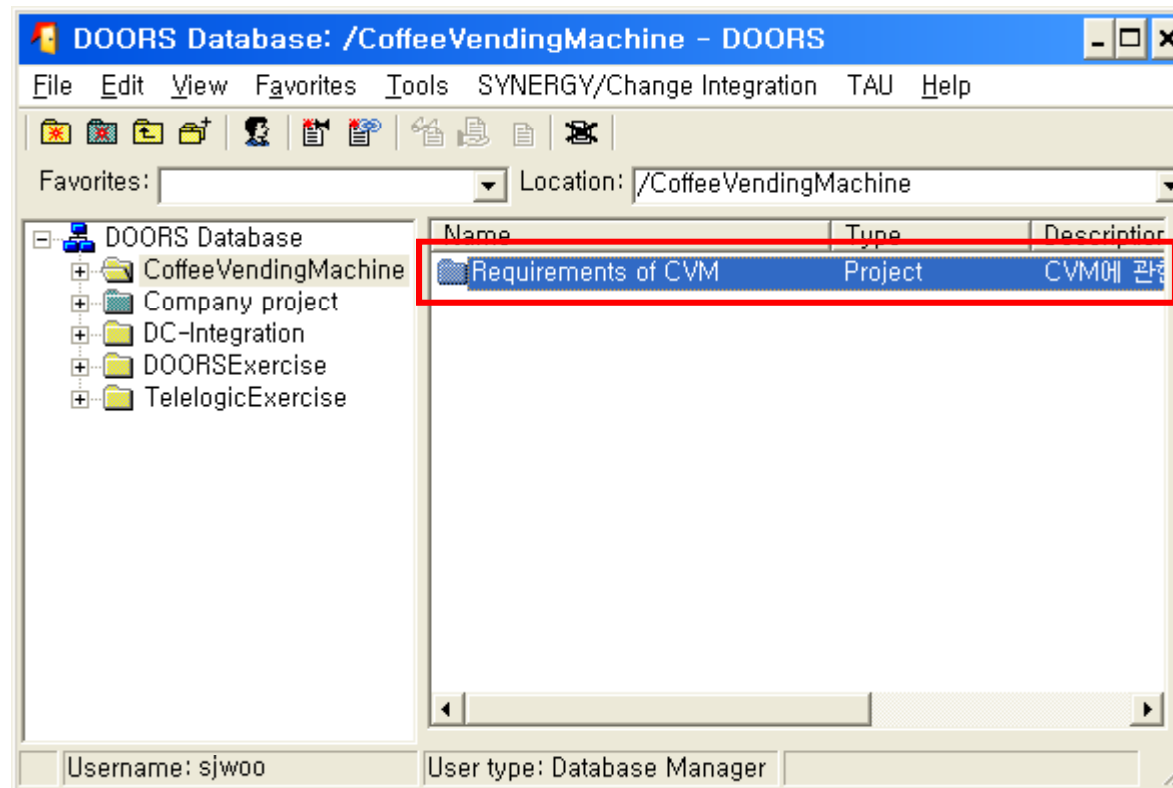
Folder and project(3/4)

- Create project
 - File → New → Project or Mouse right button menu
 - Project name : “Requirements of CVM_ID”



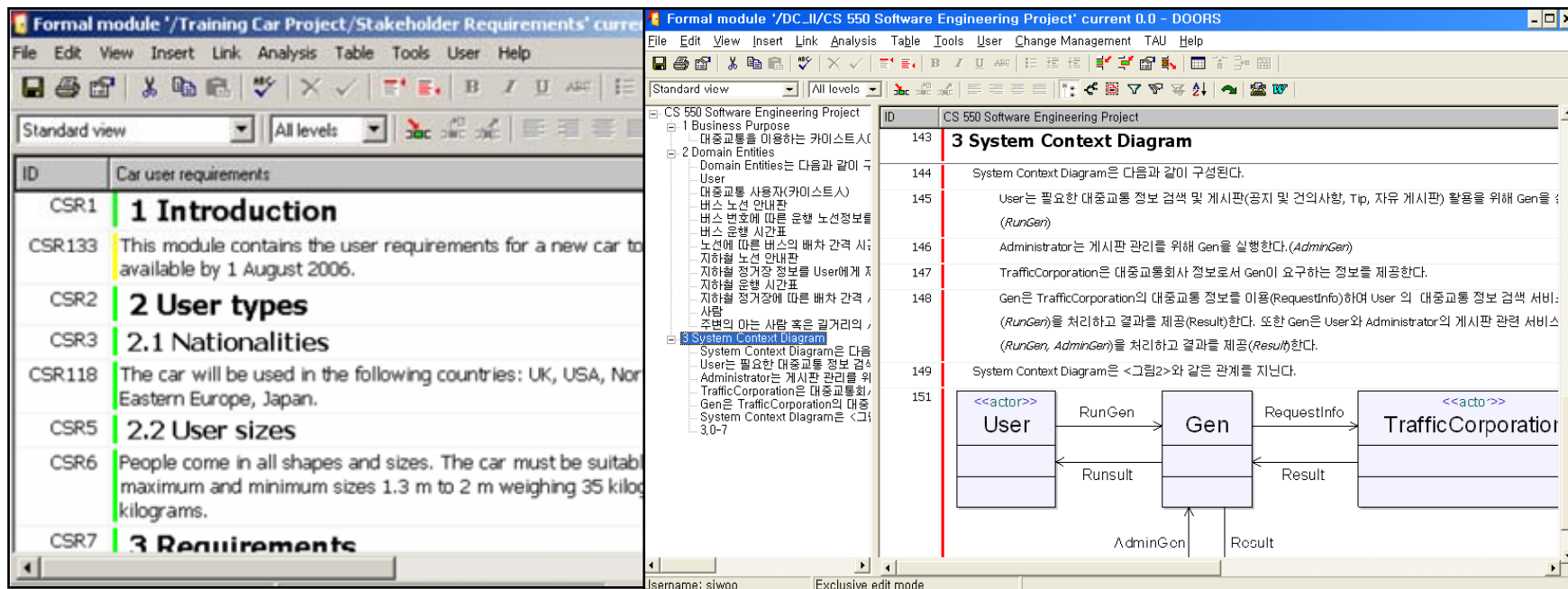
Folder and project(4/4)

- Create project(cont'd)



Formal module concepts

- A formal module is a container for information (requirements, graphics, etc)
 - Typically structured and displayed as a document
 - May be structured and displayed as a data file



The screenshot displays two instances of the DOORS software interface. The left window, titled 'Formal module "/>

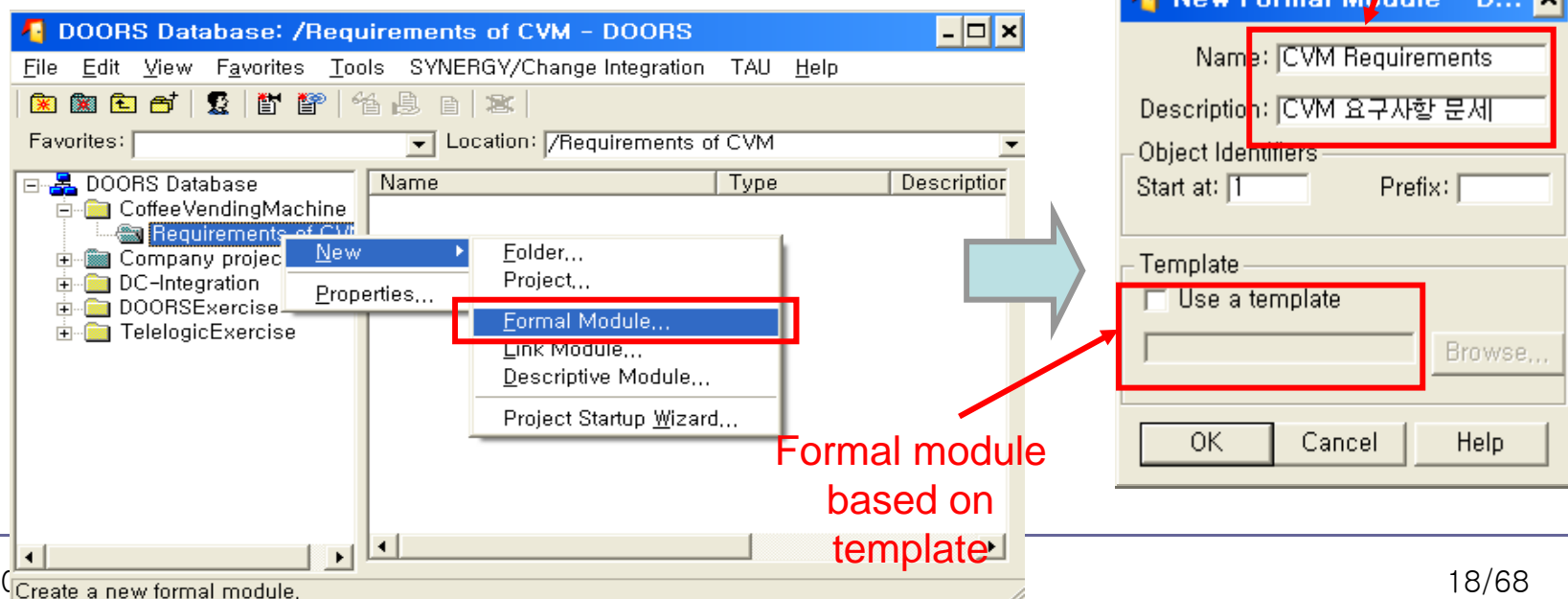
ID	CS 550 Software Engineering Project
143	3 System Context Diagram
144	System Context Diagram은 다음과 같이 구성된다.
145	User는 필요한 대중교통 정보 검색 및 게시판(공지 및 건의사항, Tip, 자유 게시판) 활용을 위해 Gen을 <RunGen>
146	Administrator는 게시판 관리를 위해 Gen을 실행한다.(AdminGen)
147	TrafficCorporation은 대중교통회사 정보로서 Gen이 요구하는 정보를 제공한다.
148	Gen은 TrafficCorporation의 대중교통 정보를 이용(RequestInfo)하여 User의 대중교통 정보 검색 서비스 <RunGen>를 처리하고 결과를 제공(Result)한다. 또한 Gen은 User와 Administrator의 게시판 관련 서비스 <RunGen, AdminGen>를 처리하고 결과를 제공(Result)한다.
149	System Context Diagram은 <그림2>와 같은 관계를 지닌다.
151	

```

graph LR
    User[<<actor>> User] -- RunGen --> Gen[Gen]
    Gen -- Result --> User
    Gen -- AdminGen --> Gen
    Gen -- Result --> TrafficCorporation[<<actor>> TrafficCorporation]
    TrafficCorporation -- RequestInfo --> Gen
  
```

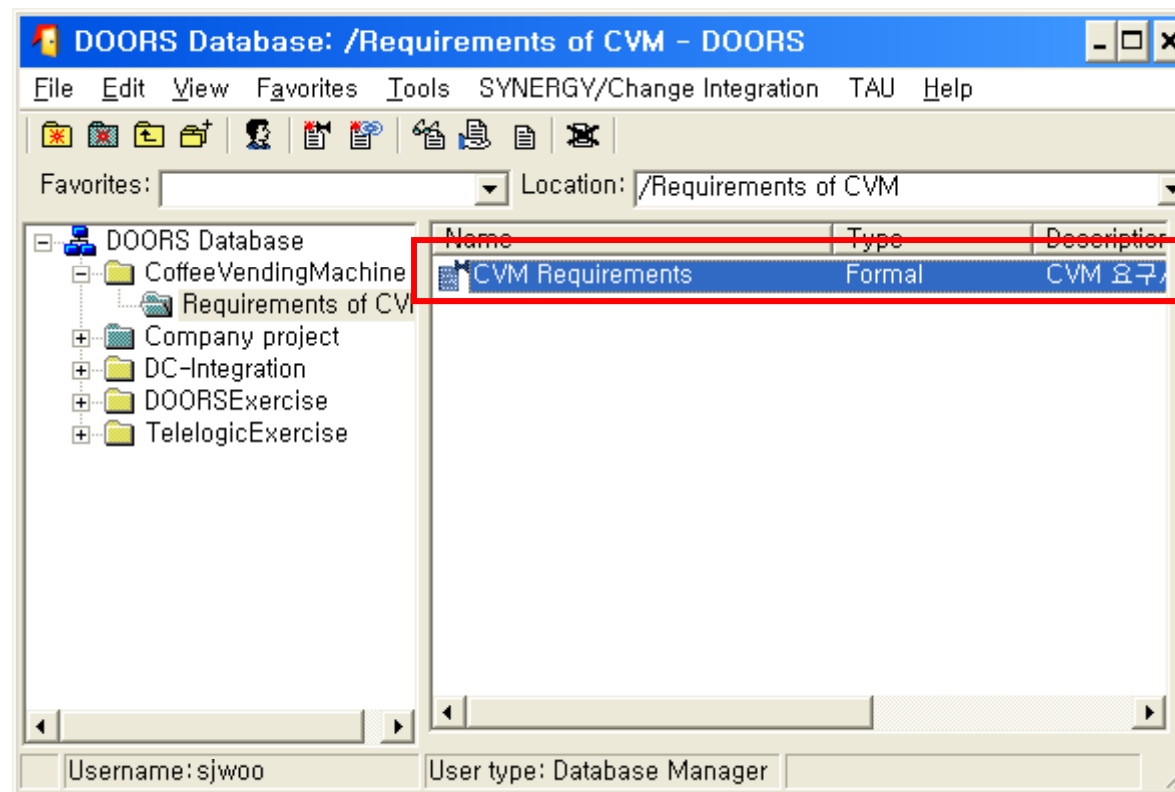
Formal module(1/4)

- Two kinds of formal module
 - General formal module
 - Formal module based on template
- Create formal module
 - File → New → Formal Module or Mouse right button menu
 - Formal module name : “CVM requirement_ID”



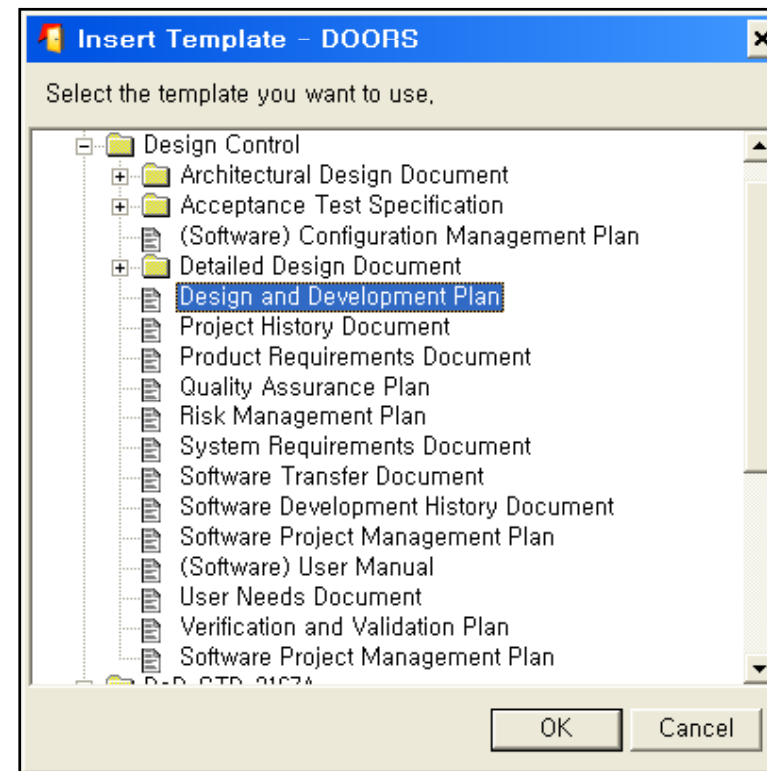
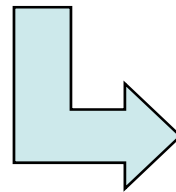
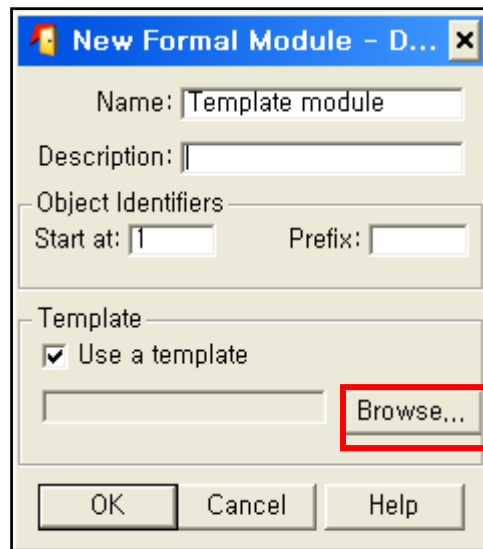
Formal module(2/4)

- Create formal module(cont'd)
 - Result of creating a general formal module



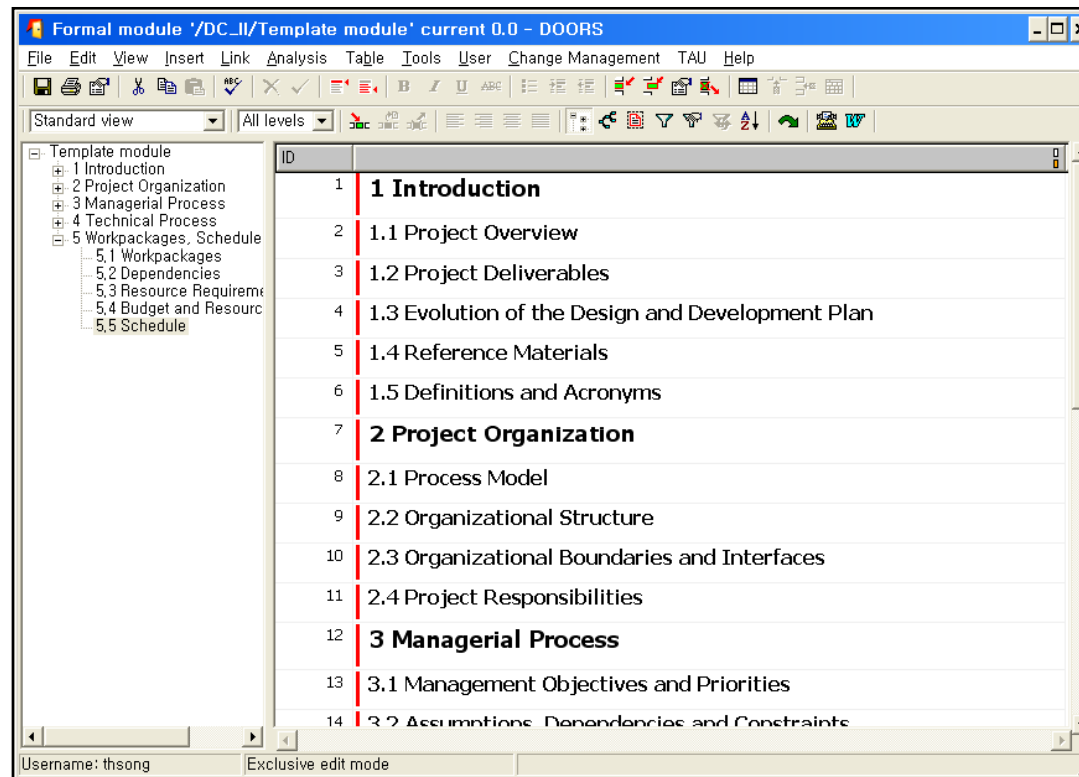
Formal module(3/4)

- Formal module based on template
 - Create formal module “using a **template**”



Formal module(4/4)

- Formal module based on template(cont'd)
 - Result of creating a formal module based on template

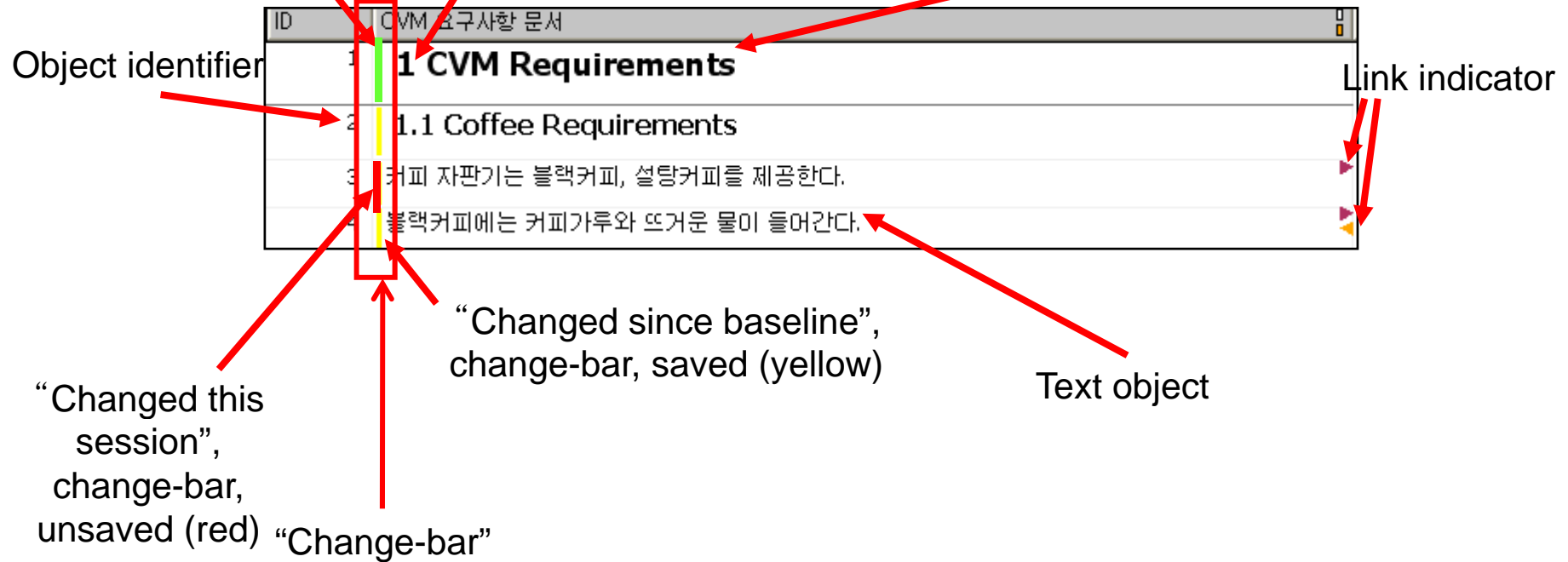


Formal module(7/7)

■ Displayed information

“No change since baseline”
Baseline, change-bar (green) Object number

Heading object



Objects concepts

- Formal module are collections of **objects**
 - Object may be used for :
 - Requirement **text**, Headings, **Graphics**
 - Other information(hyperlinks, OLEs)
 - Heading objects
 - Providing context for the requirements (or other objects) below them
 - Section number (Object number) is displayed
 - Text objects
 - Contain requirements, graphics, other text
 - Should be leaf objects in the module hierarchy

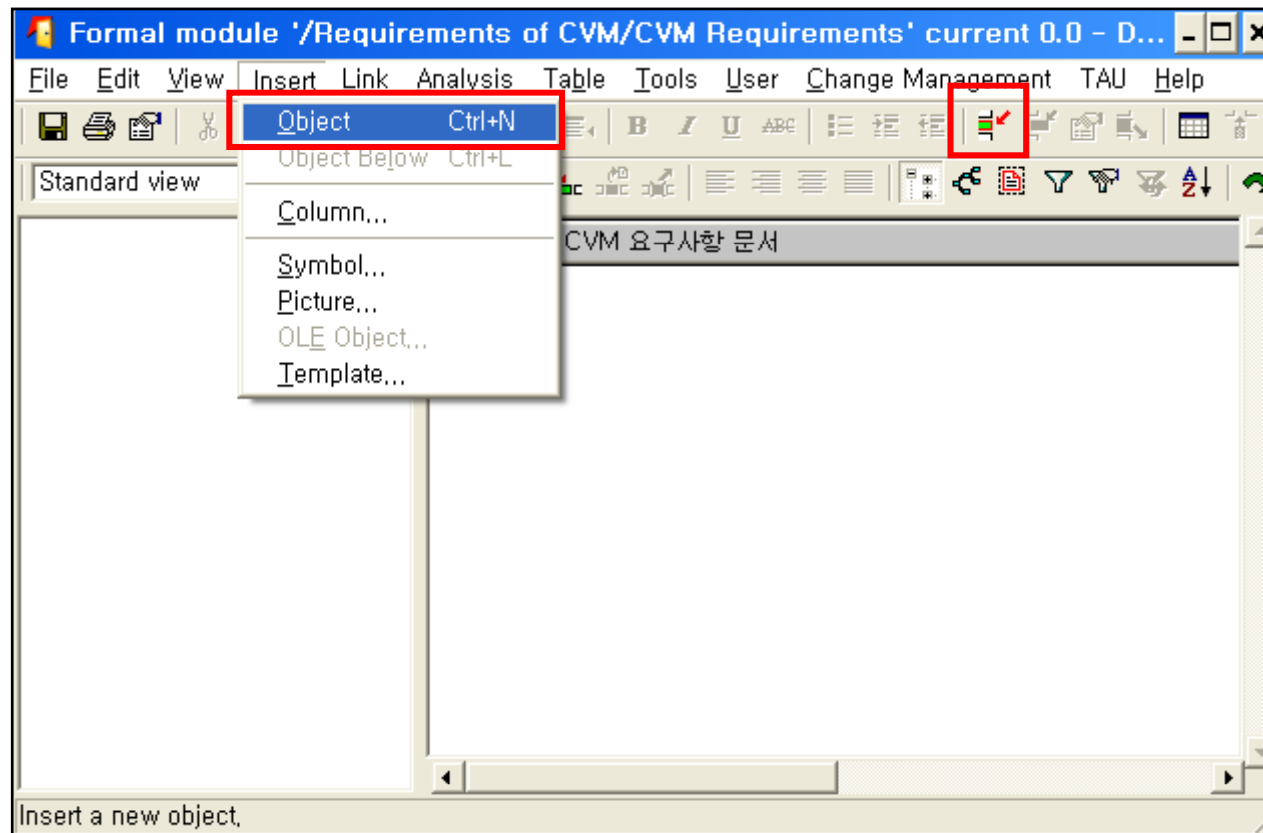


“Make text objects children of the heading object”

“Don’t make text objects children of other text object”

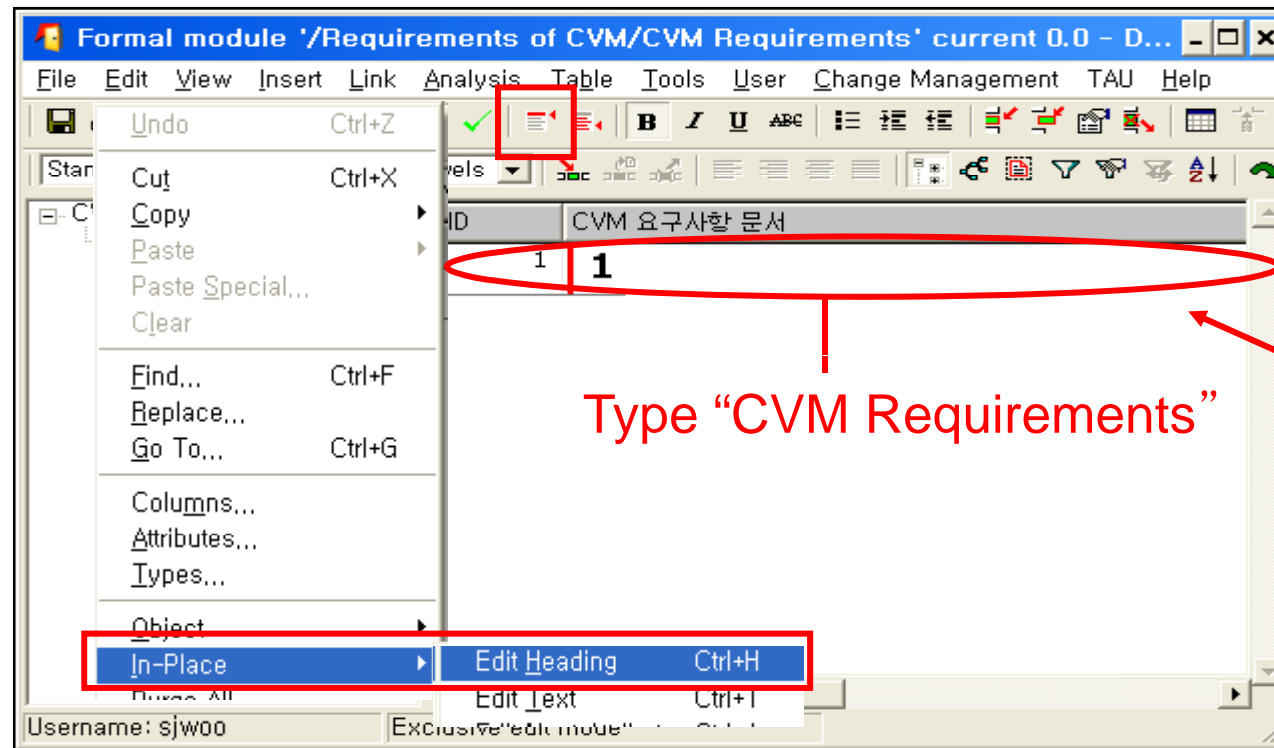
Object(1/5)

- Create object
 - Insert → Object or New Object at this level icon click



Object(2/5)

- Edit object heading
 - Edit → In-Place → Edit Heading or Edit Object Heading icon or Double click

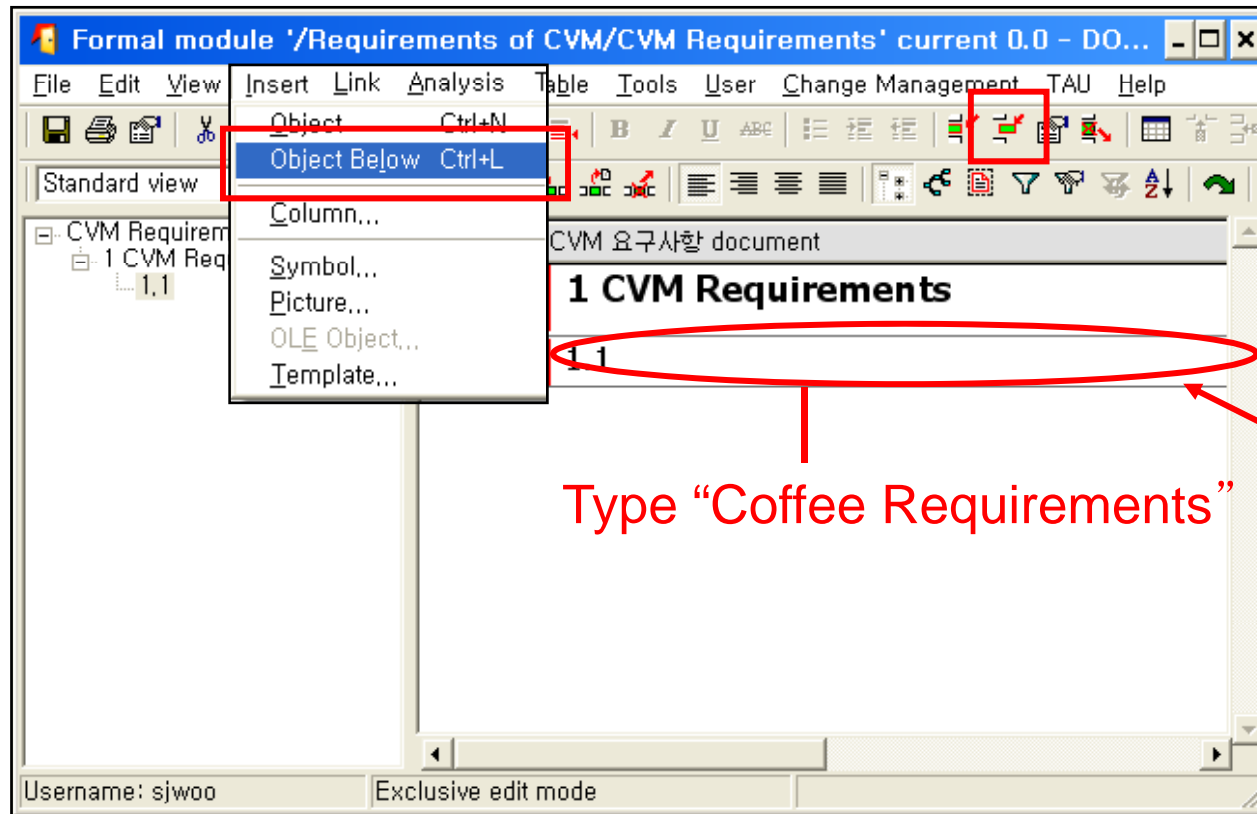


Double-Click

Type "CVM Requirements"

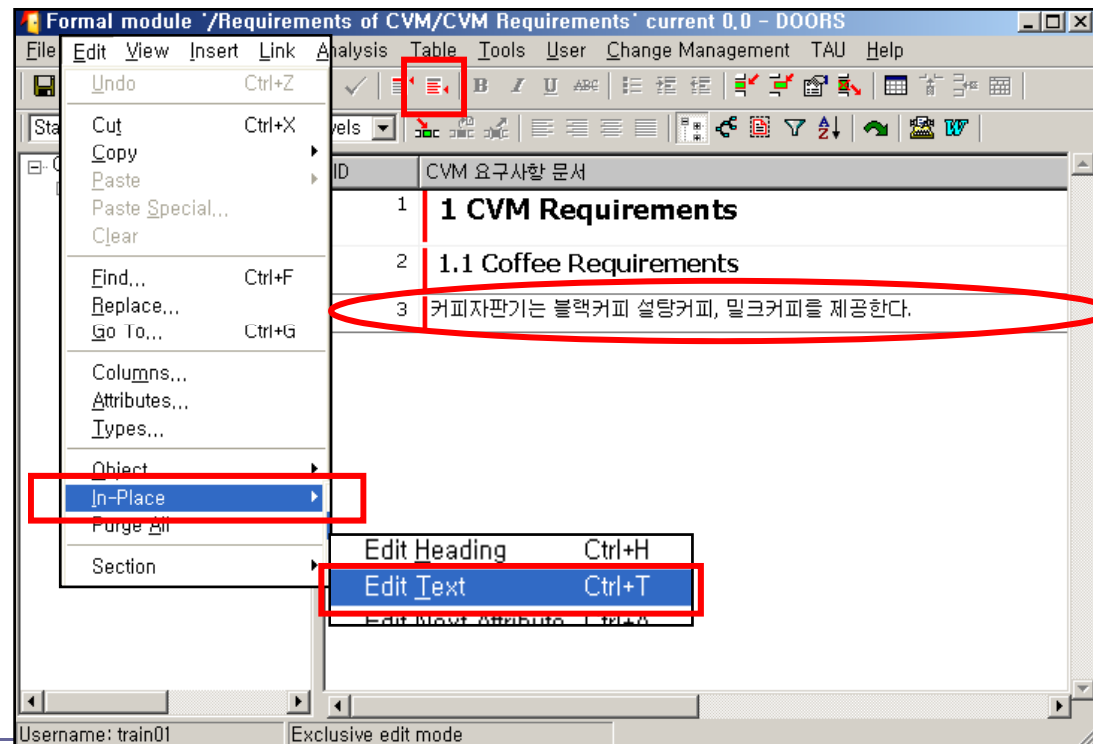
Object(3/5)

- Create object below
 - Insert → Object Below or New Object Below icon click



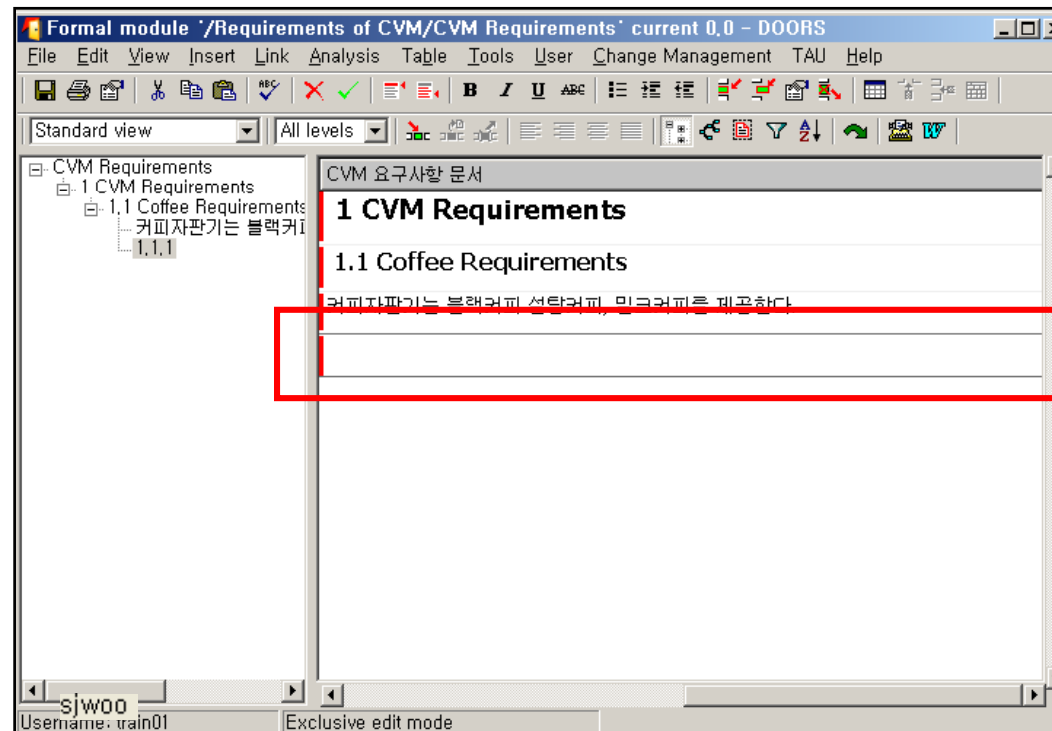
Object(4/5)

- Edit object text
 - 1. Create object below
 - 2. Edit → In-Place → Edit Text or Edit Object Text icon or Double click



Object(5/5)

- Create new object text
 - While editing object, use “Ctrl + Enter” to a create a new Text object at the same level





Exercise #1

- Develop the CVM requirement
 - Formal module name : “CVM requirement_ID”
 - Ex. CVM requirement_kayoon
 - Make object and text

ID	CVM 요구사항 문서
1	1 CVM Requirements
2	1.1 Coffee Requirements
3	커피 자판기는 블랙커피, 설탕커피를 제공한다.
4	블랙커피에는 커피가루와 뜨거운 물이 들어간다.
5	설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.
6	커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.
7	블랙커피 한잔의 가격은 5원이다.
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9	1.2 Change Requirements
10	커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.
11	5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.
12	10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.
13	5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.
14	10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다.

Links and traceability(1/10)

■ Link

- Relationship between two objects is established by “Link”
- Source Object is “from” object
- Target Objects is “to” object



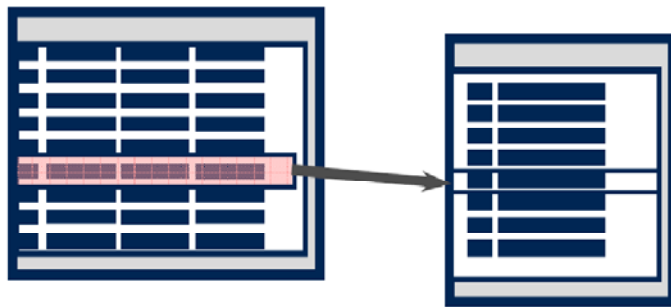
Links and traceability(2/10)

- Why define **relationships**?
 - Requirements in any real project are inter-related
 - These relationships can be used to understand dependencies between requirements and assess **impact of change**
 - Requirements also have relationships to other artifacts for the lifecycle
 - “Maintain bi-directional **traceability** among the requirements and the project plans and work products” [CMMI v1.02]

Links and traceability(3/10)

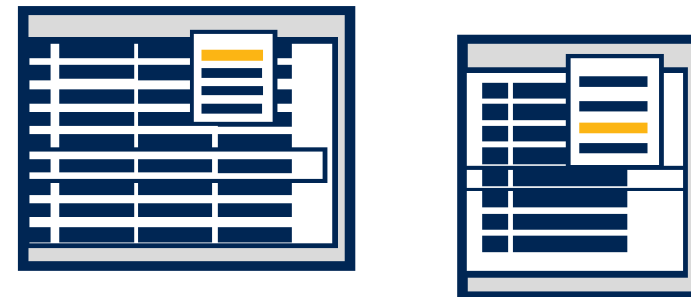
- Two kinds of methods for creating links
 - Drag and drop linking
 - Menu-driven linking

Drag and drop



1: 1

Menu-driven linking



1: N

Links and traceability(4/10)

- Drag and drop linking

Formal module '/Requirements of CVM/CVM Requirements' current 0.0 - DOORS

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Drag & Drop

Make Link From Start

Move

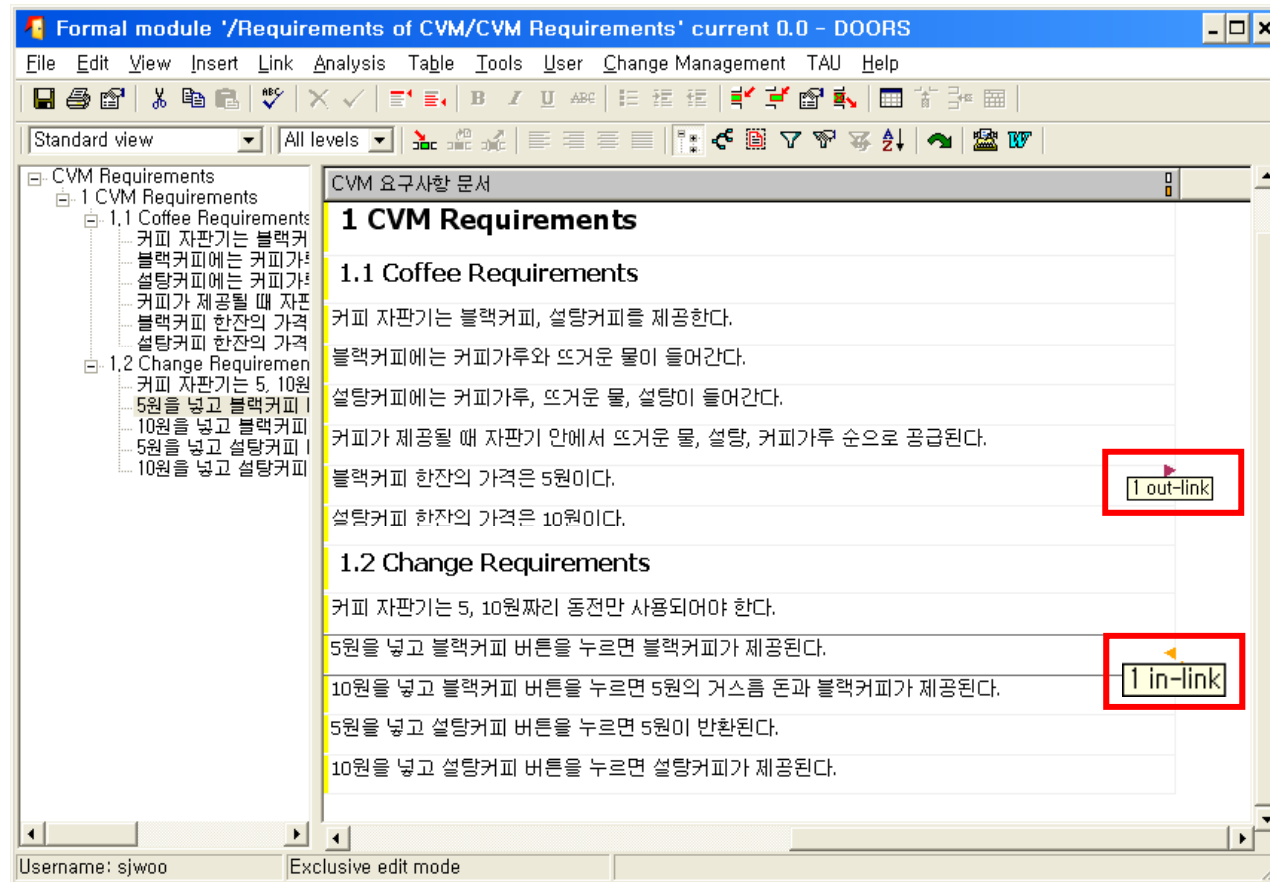
Copy

Copy then link

Cancel

Links and traceability(5/10)

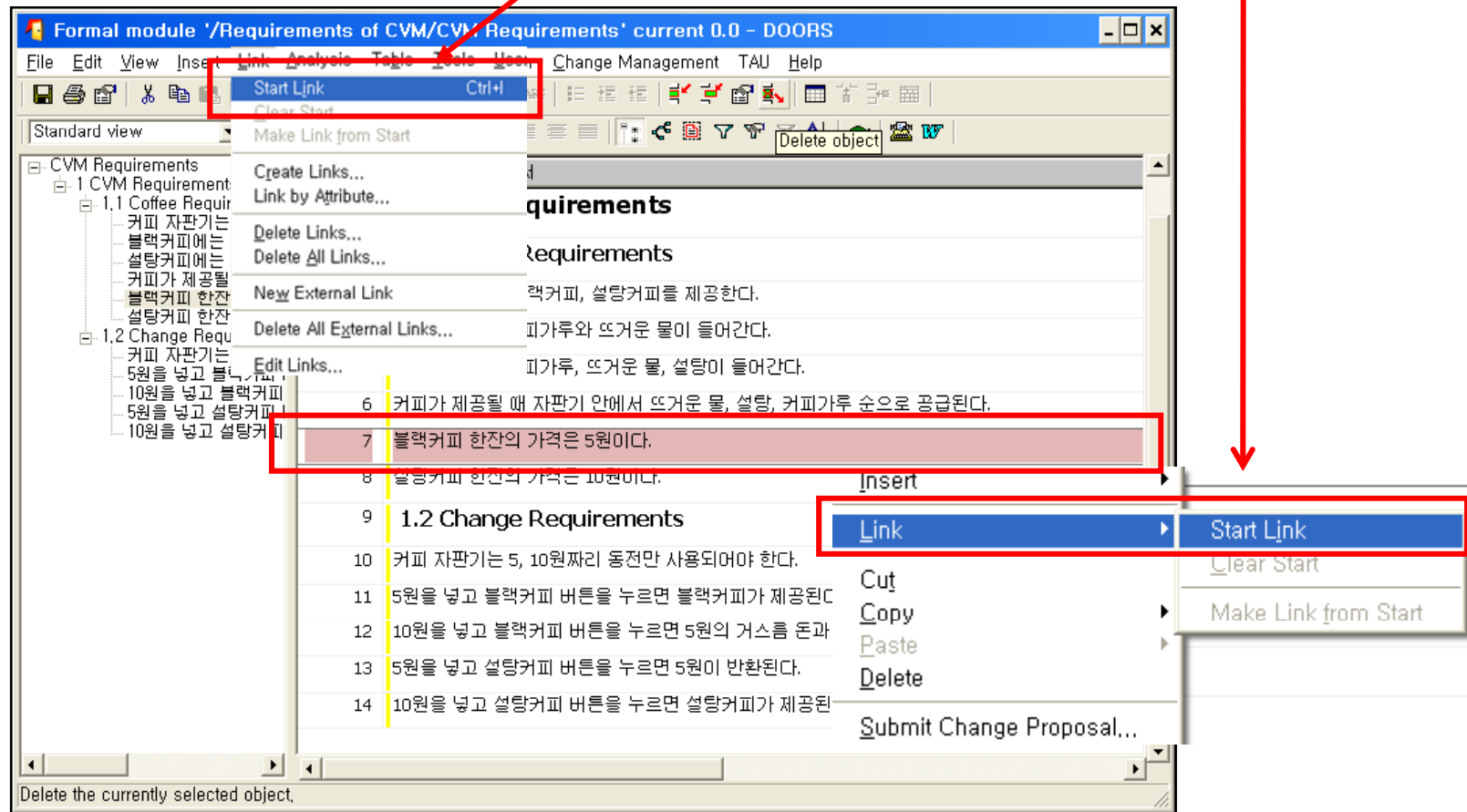
- Result of creating link



Links and traceability(6/10)

- Menu driven linking

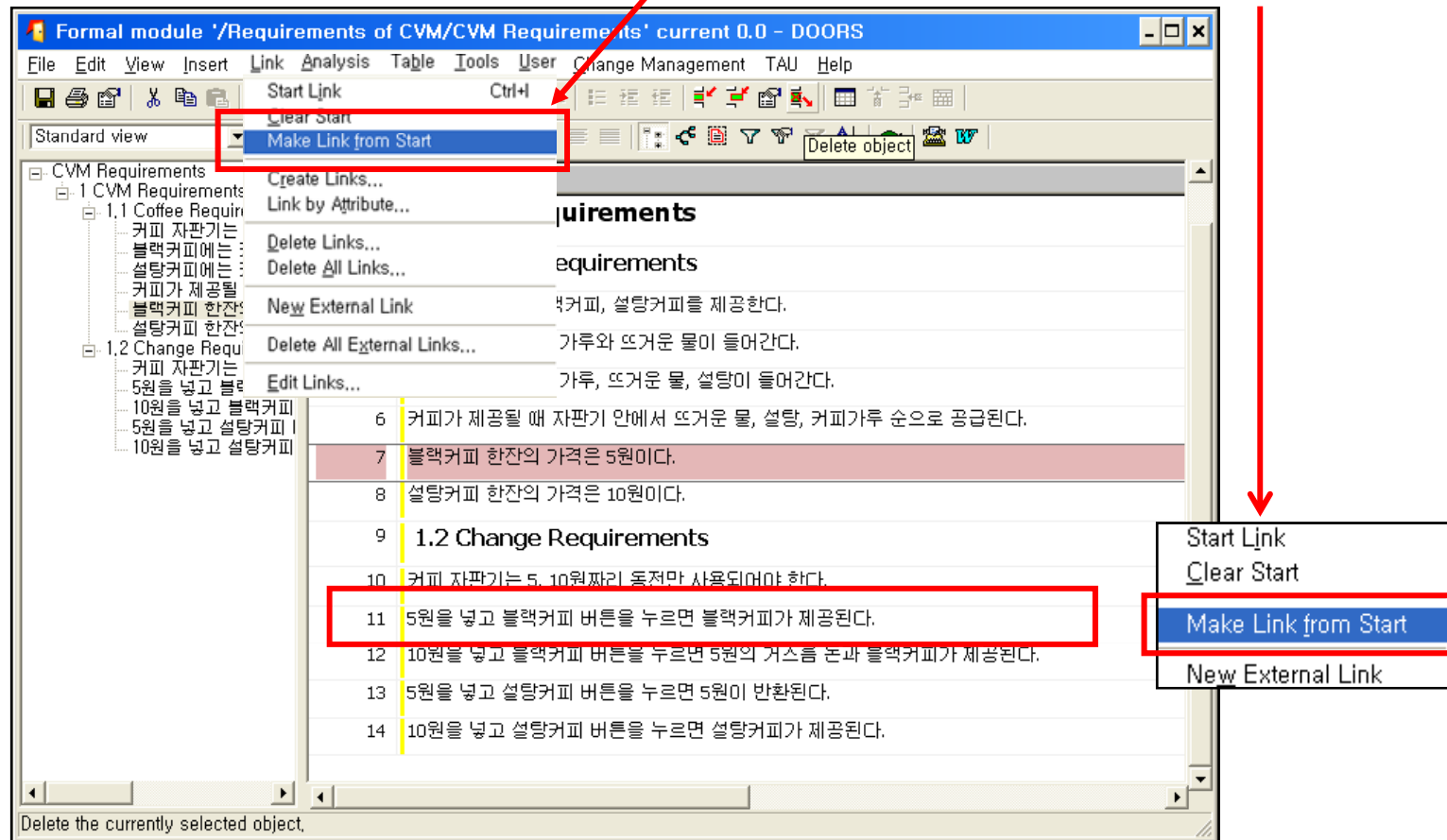
Use Tool bar or Mouse right button



Links and traceability(7/10)

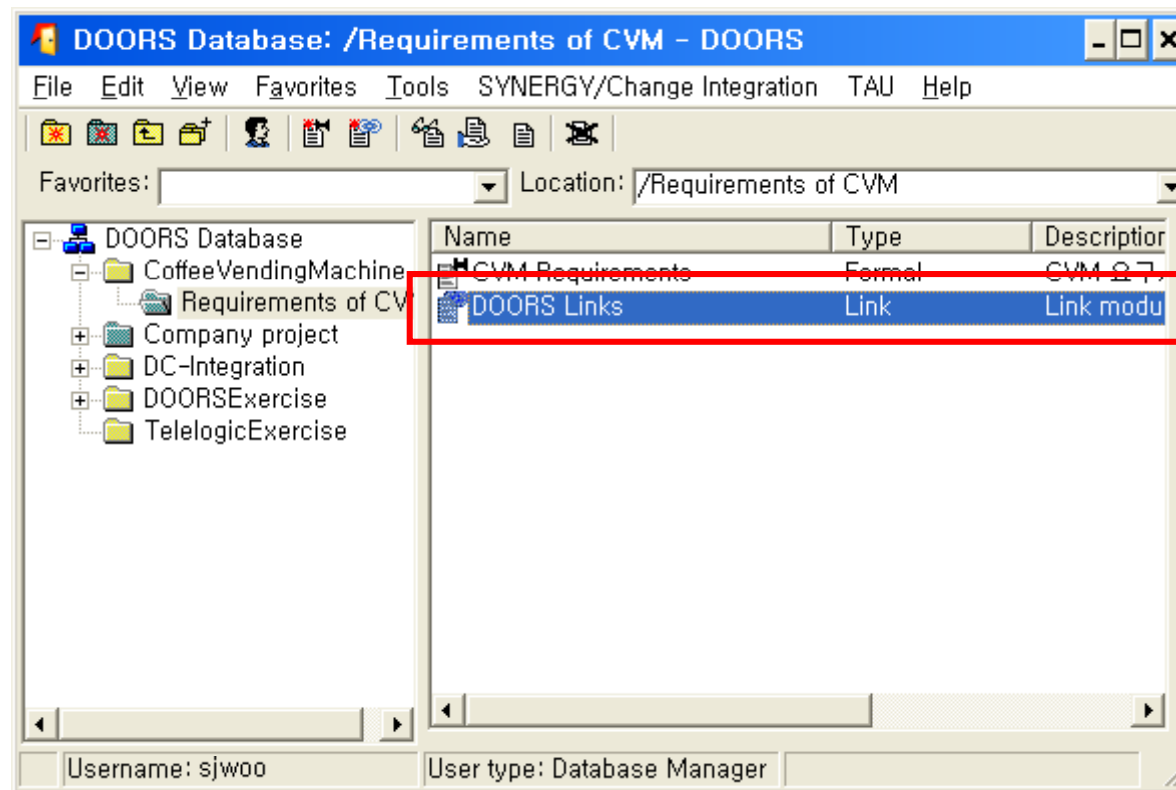
- Menu driven linking (cont'd)

Use Tool bar or Mouse right button



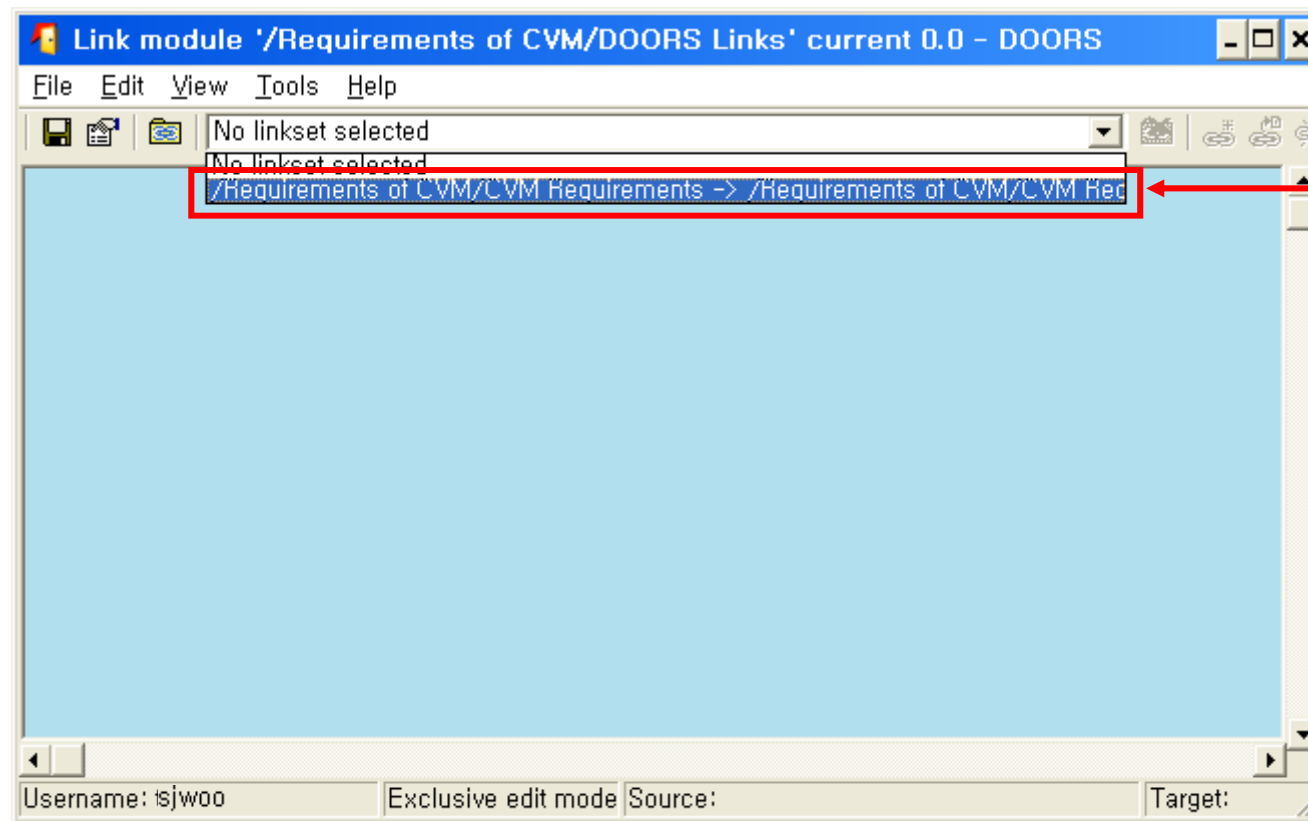
Links and traceability(8/10)

- DOORS Links module



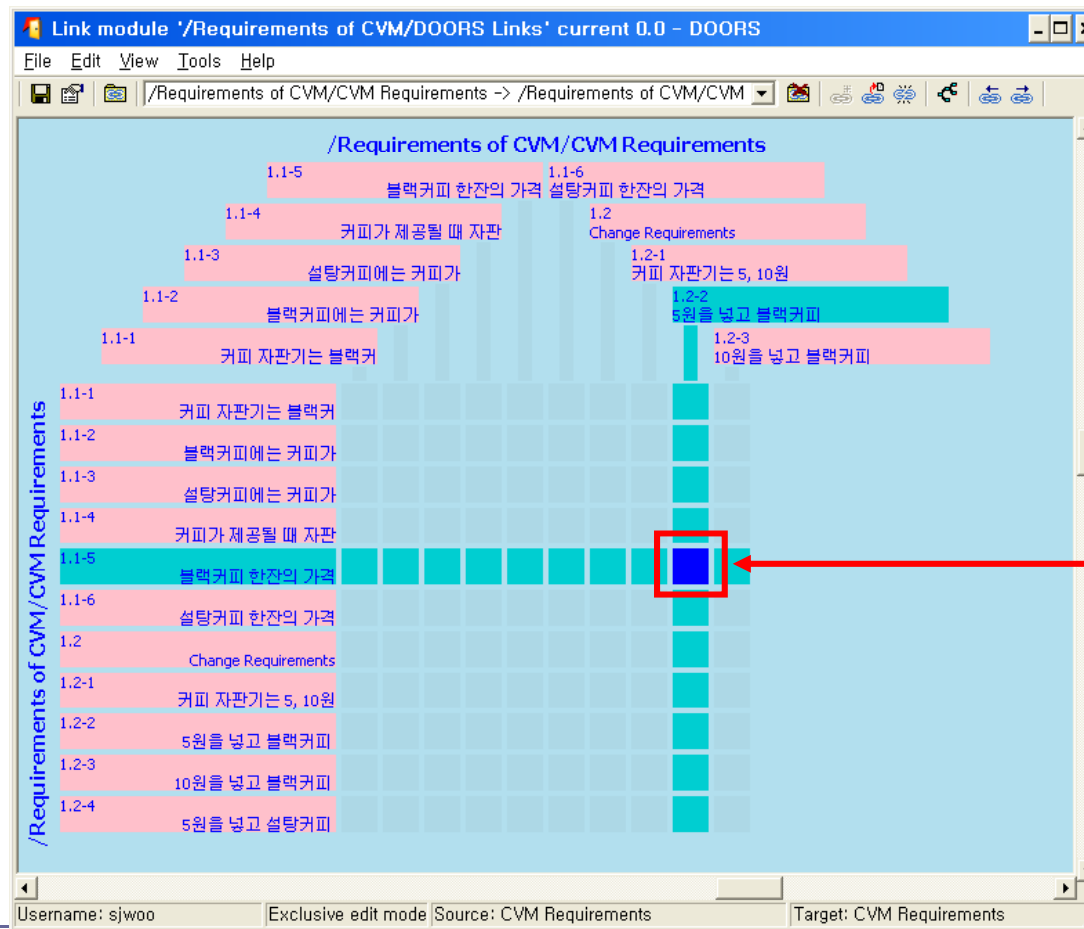
Links and traceability(9/10)

- View DOORS Link module



Links and traceability(10/10)

- View DOORS Link module (cont'd)





Exercise #2(1/2)

- Create links in requirement
 - Link guideline

Requirements

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Traceability table

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	target
1															
2															
3				■	■										
4						■									
5						■									
6															
7															
8										■	■	■			
9															
10															
11															
12															
13															
14															

source



Exercise #2(2/2)

Result

Formal module '/Requirements of CVM/CVM Requirements' current 0.0 - DOORS

File Edit View Insert Link Analysis Table Tools User Change Management TAU Help

Standard view All levels

CVM Requirements

- 1 CVM Requirements
 - 1.1 Coffee Requirements
 - 커피 자판기는 블랙커피
 - 블랙커피에는 커피가루
 - 설탕커피에는 커피가루
 - 커피가 제공될 때 자판
 - 블랙커피 한잔의 가격
 - 설탕커피 한잔의 가격
 - 1.2 Change Requirements
 - 커피 자판기는 5, 10원
 - 5원을 넣고 블랙커피 1
 - 10원을 넣고 블랙커피 1
 - 5원을 넣고 설탕커피 1
 - 10원을 넣고 설탕커피 1

CVM 요구사항 문서

1 CVM Requirements

1.1 Coffee Requirements

커피 자판기는 블랙커피, 설탕커피를 제공한다.

블랙커피에는 커피가루와 뜨거운 물이 들어간다.

설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.

커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.

블랙커피 한잔의 가격은 5원이다.

설탕커피 한잔의 가격은 10원이다.

1.2 Change Requirements

커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.

5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.

10원을 넣고 블랙커피 버튼을 누르면 5원의 거스를 돈과 블랙커피가 제공된다.

5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.

10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다.

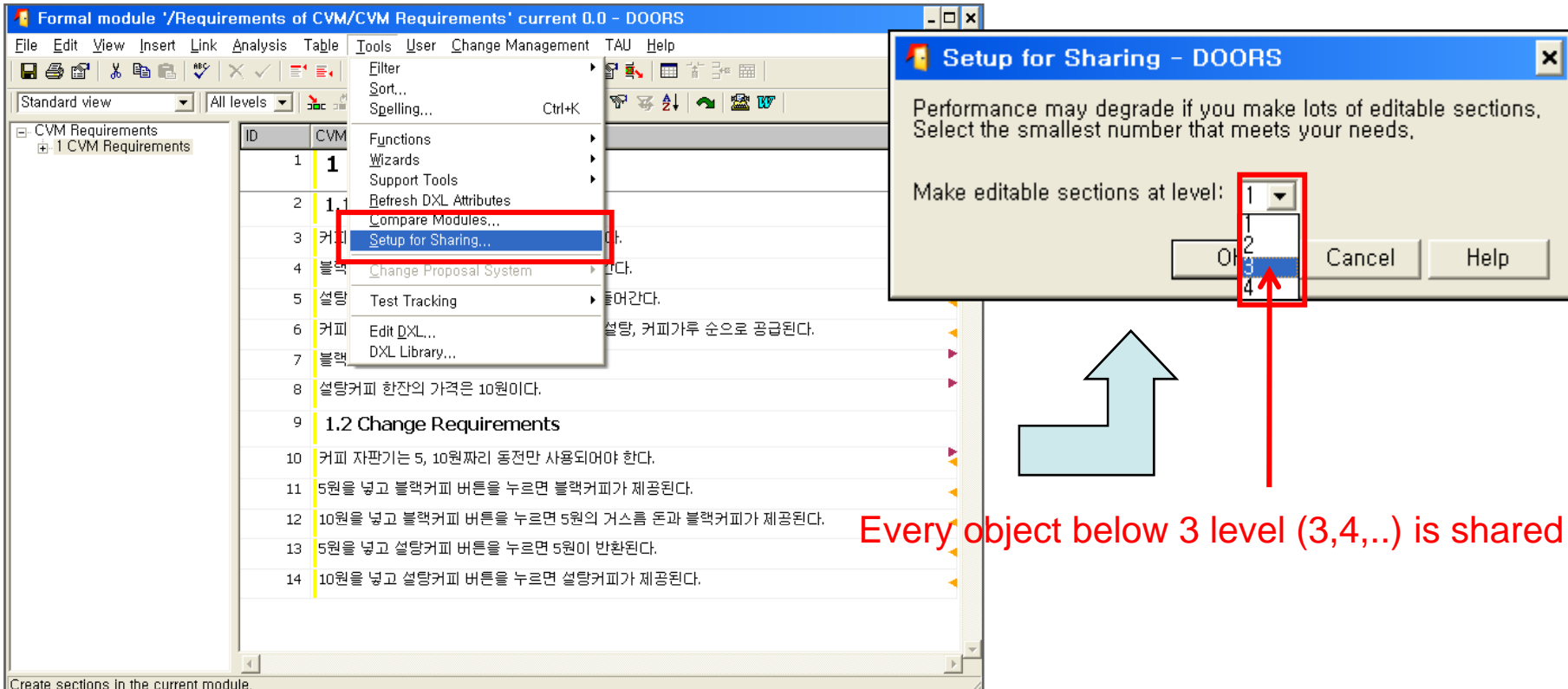
Username: sjwoo Exclusive edit mode

Shareable edit mode(1/5)

- Concepts of shareable edit mode
 - It is often necessary for more than one person to edit the same formal module at the same time
 - Multiple users may edit different sections of the same module at the same time

Shareable edit mode(2/5)

- Setup for sharing(User : sjwoo)
 - In exclusive edit mode : **Tools** → Setup for Sharing



Formal module '/Requirements of CVM/CVM Requirements' current 0.0 - DOORS

File Edit View Insert Link Analysis Table Tools User Change Management TAU Help

Standard view All levels

CVM Requirements

ID	CVM	Functions
1	1	Filter
2	1	Sort...
3	커피	Spelling... Ctrl+K
4	블랙	Functions
5	설탕	Wizards
6	커피	Support Tools
7	블랙	Refresh DXL Attributes
8	설탕커피 한잔의 가격은 10원이다.	Compare Modules...
9	1.2 Change Requirements	Setup for Sharing...
10	커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.	Change Proposal System
11	5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.	Test Tracking
12	10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.	Edit DXL...
13	5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.	DXL Library...
14	10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다.	

Setup for Sharing - DOORS

Performance may degrade if you make lots of editable sections. Select the smallest number that meets your needs.

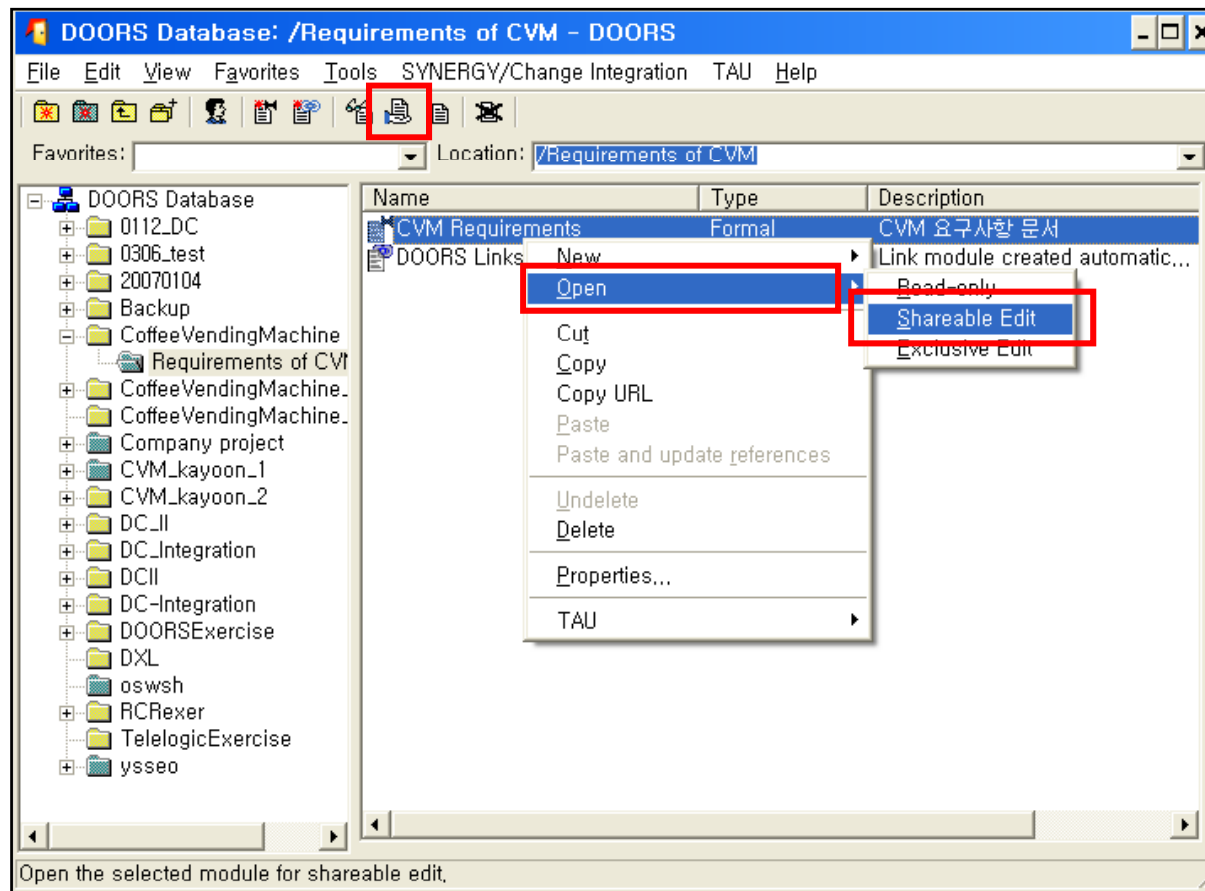
Make editable sections at level: 1 2 3 4

0 Cancel Help

Every object below 3 level (3,4,..) is shared

Shareable edit mode(3/5)

- Open module in shareable edit mode(User : sjwoo)



Shareable edit mode(4/5)

- Multi user section locking(User : sjwoo)

Right-Click

ID	CVM 요구사항 문서
1	1 CVM Requirements
2	1.1 Coffee Requirements
3	커피 자판기는 블랙커피, 설탕커피
4	블랙커피에는 커피가루와 뜨거운
5	설탕커피에는 커피가루, 뜨거운 물
6	커피가 제공될 때 자판기 안에서
7	블랙커피 한잔의 가격은 5원이다.
8	설탕커피 한잔의 가격은 10원이다.
9	1.2 Change Requirements
10	커피 자판기는 5, 10원짜리 동전만
11	5원을 넣고 블랙커피 버튼을 누르
12	10원을 넣고 블랙커피 버튼을 누르
13	5원을 넣고 설탕커피 버튼을 누르
14	10원을 넣고 설탕커피 버튼을 누르면

ID	CVM 요구사항 문서
1	1 CVM Requirements
2	1.1 Coffee Requirements
3	커피 자판기는 블랙커피, 설탕커피를 제공한다.
4	블랙커피에는 커피가루와 뜨거운 물이 들어간다.
5	설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.
6	커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.
7	블랙커피 한잔의 가격은 5원이다.
8	설탕커피 한잔의 가격은 10원이다.
9	1.2 Change Requirements
10	커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.
11	5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.
12	10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.

Shareable edit mode(5/5)

- Multi user section locking(cont'd)
 - Result of shareable edit mode

User : sjwoo

User : thsong

ID	CVM 요구사항 문서
1	1 CVM Requirements
2	1.1 Coffee Requirements
3	커피 자판기는 블랙커피, 설탕커피를 제공한다.
4	블랙커피에는 커피가루와 뜨거운 물이 들어간다.
5	설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.
6	커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루

DOORS

Section lock failed: Item /Requirements locked (unshared) by thsong@SE-227B7380A6B2 at 03/13/07 21:09:55

OK

Additional object information(1/4)

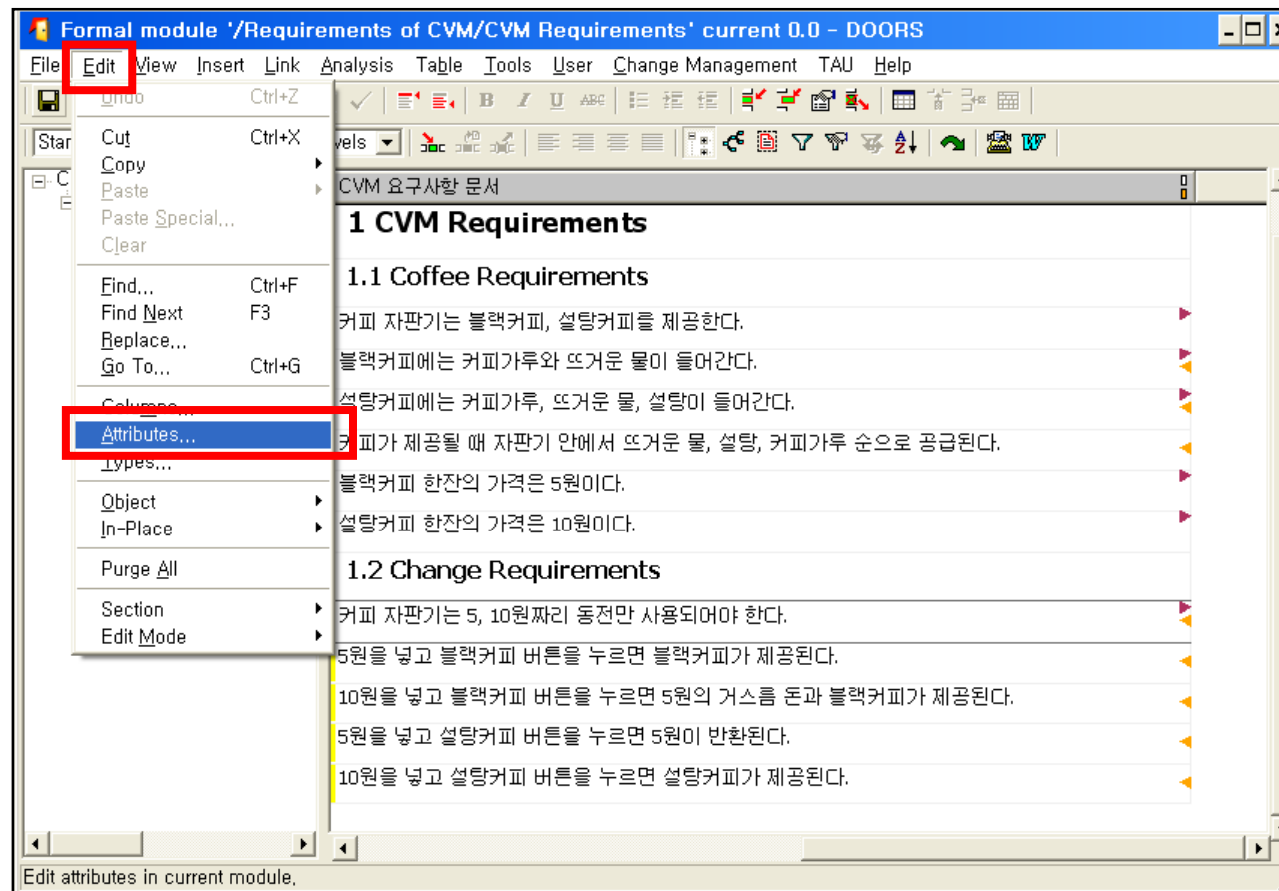
- Capturing additional information via attribute
 - By using and displaying attributes and columns
- Attributes
 - Additional defined characteristics of an object
 - Source : Who specified this requirement?
 - Priority : What is the priority of this requirement?
 - Comments : Any comments on the requirement to clarify its meaning
 - Questions : Any questions that must be clarified with the source
 - Attributes make requirements to be more effectively and efficiently, use them to
 - Filtering
 - Searching
 - Sorting

Additional object information(2/4)

- Attributes(cont'd)
 - Classification by attribute definer
 - DOORS-predefined attributes
 - Ex) created by(by DOORS), Object heading(by users)
 - User-defined attributes
 - Have specific meaning for a project
 - Will support your process
 - Ex) comments, verification method etc.
 - Classification by target
 - Object attribute
 - Module attribute

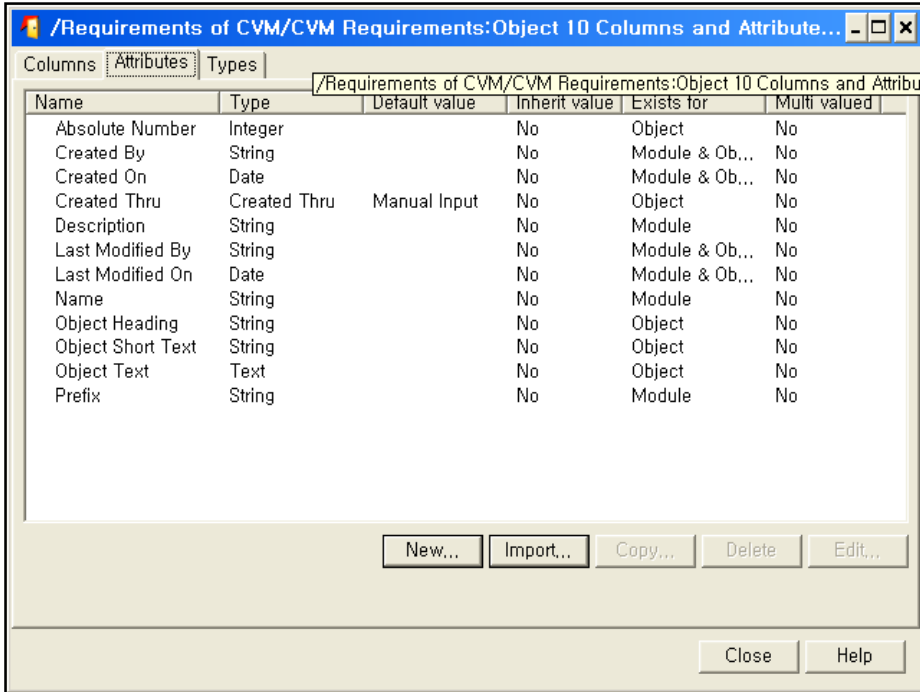
Additional object information(3/4)

- Edit attribute



Additional object information(4/4)

- Default attribute of column



Name	Type	Default value	Inherit value	Exists for	Multi valued
Absolute Number	Integer		No	Object	No
Created By	String		No	Module & Ob...	No
Created On	Date		No	Module & Ob...	No
Created Thru	Created Thru	Manual Input	No	Object	No
Description	String		No	Module	No
Last Modified By	String		No	Module & Ob...	No
Last Modified On	Date		No	Module & Ob...	No
Name	String		No	Module	No
Object Heading	String		No	Object	No
Object Short Text	String		No	Object	No
Object Text	Text		No	Object	No
Prefix	String		No	Module	No

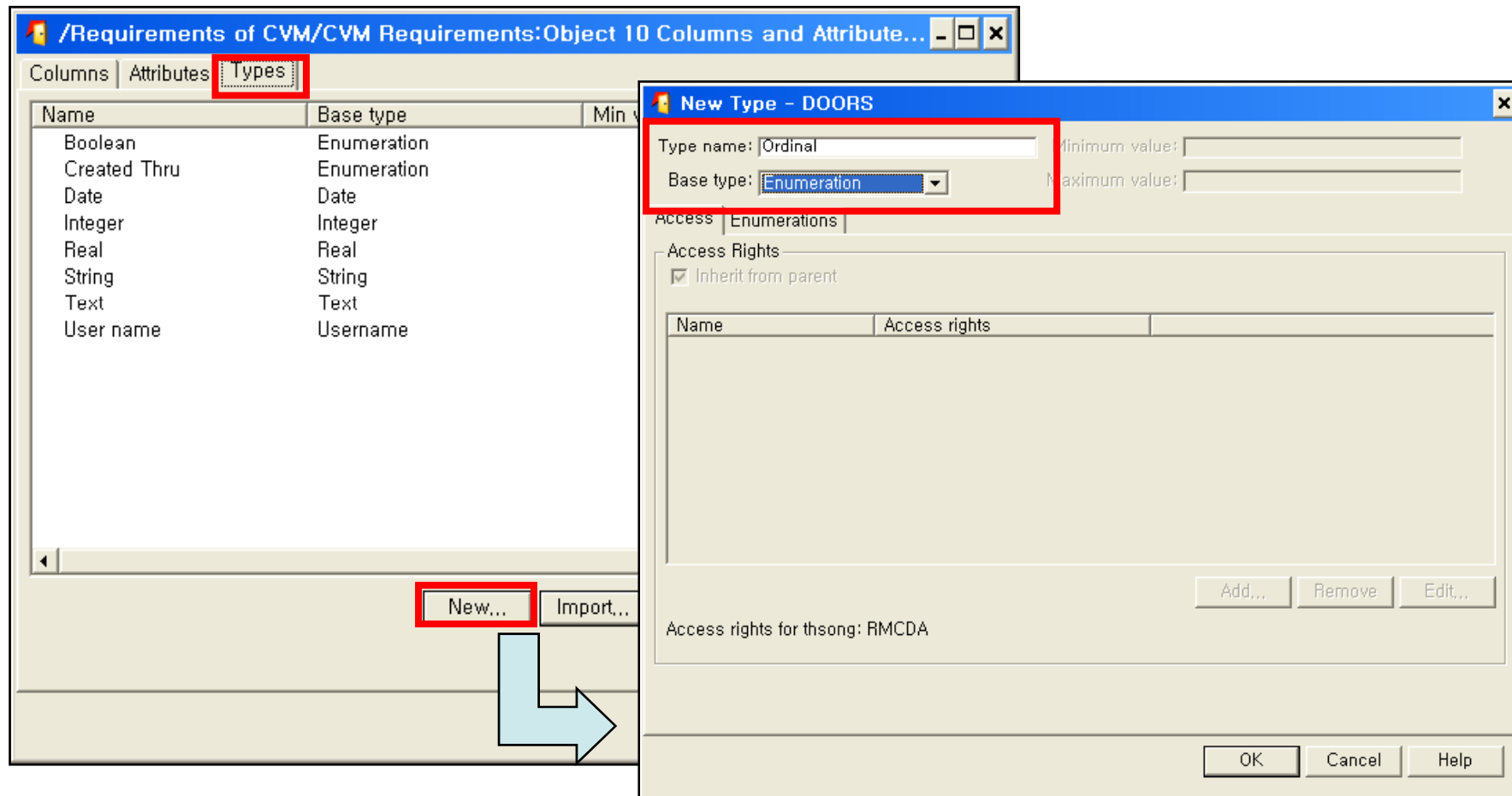
We need "priority" attribute



- From now on, we will create "priority" attribute to present the priority of each requirement

Creation of new column type(1/3)

- Create new type(Ordinal) of column



Creation of new column type(2/3)

- Create new type(Ordinal) of column(cont'd)

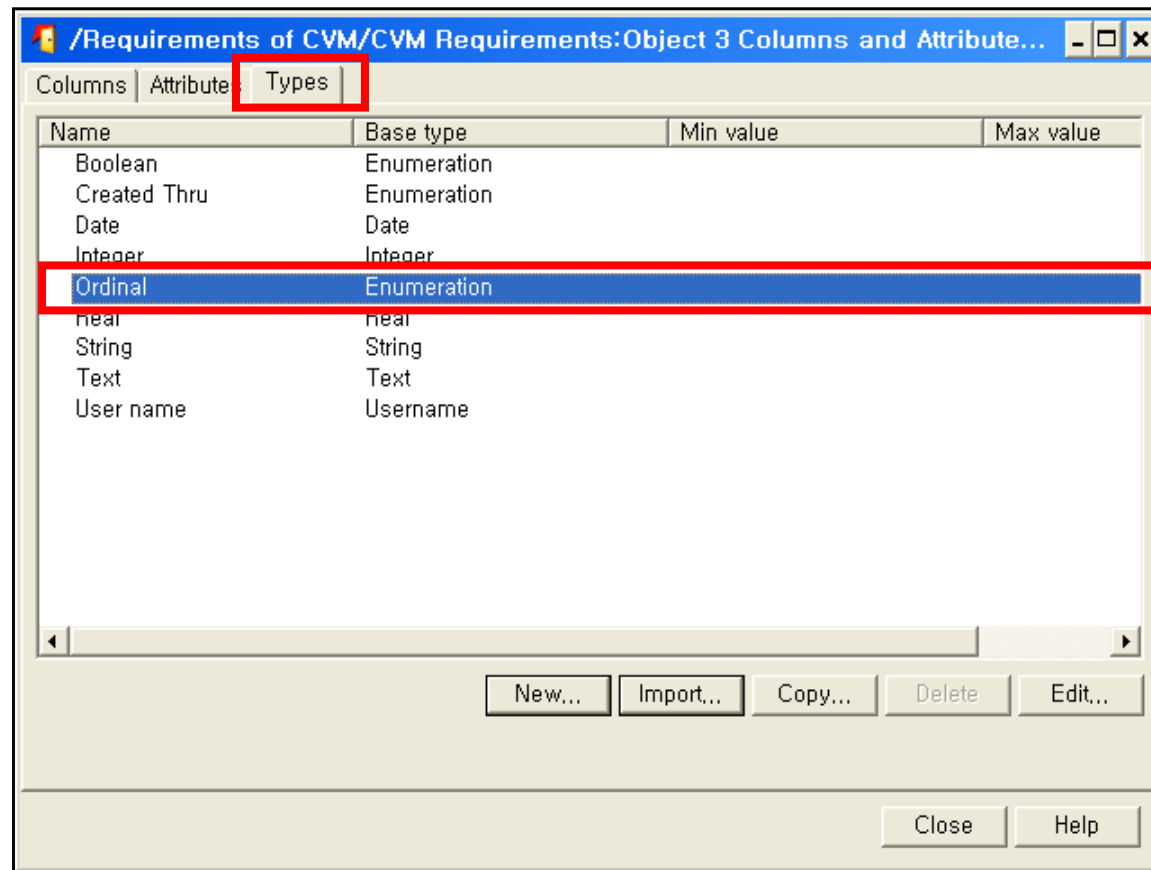
The screenshot shows the 'New Type - DOORS' dialog box. The 'Type name' is 'Ordinal', 'Base type' is 'Enumeration', and 'Access' is 'Enumerations'. The 'Value' field is 'Low' and 'Related number' is '1'. The 'Use color' section has 'Specified' selected, and a color list is shown with 'Green' selected. The table on the right shows values: High (5), Medium (3), and Low (1).

Value	Related num
High	5
Medium	3
Low	1

- Value : High, Medium, Low
- Related number : 5, 3, 1
- Use color : default, specified
- Add click

Creation of new column type(3/3)

- Create new type(priority) of column(cont'd)



Creation of new attribute(1/6)

- Create new attribute(priority) of column

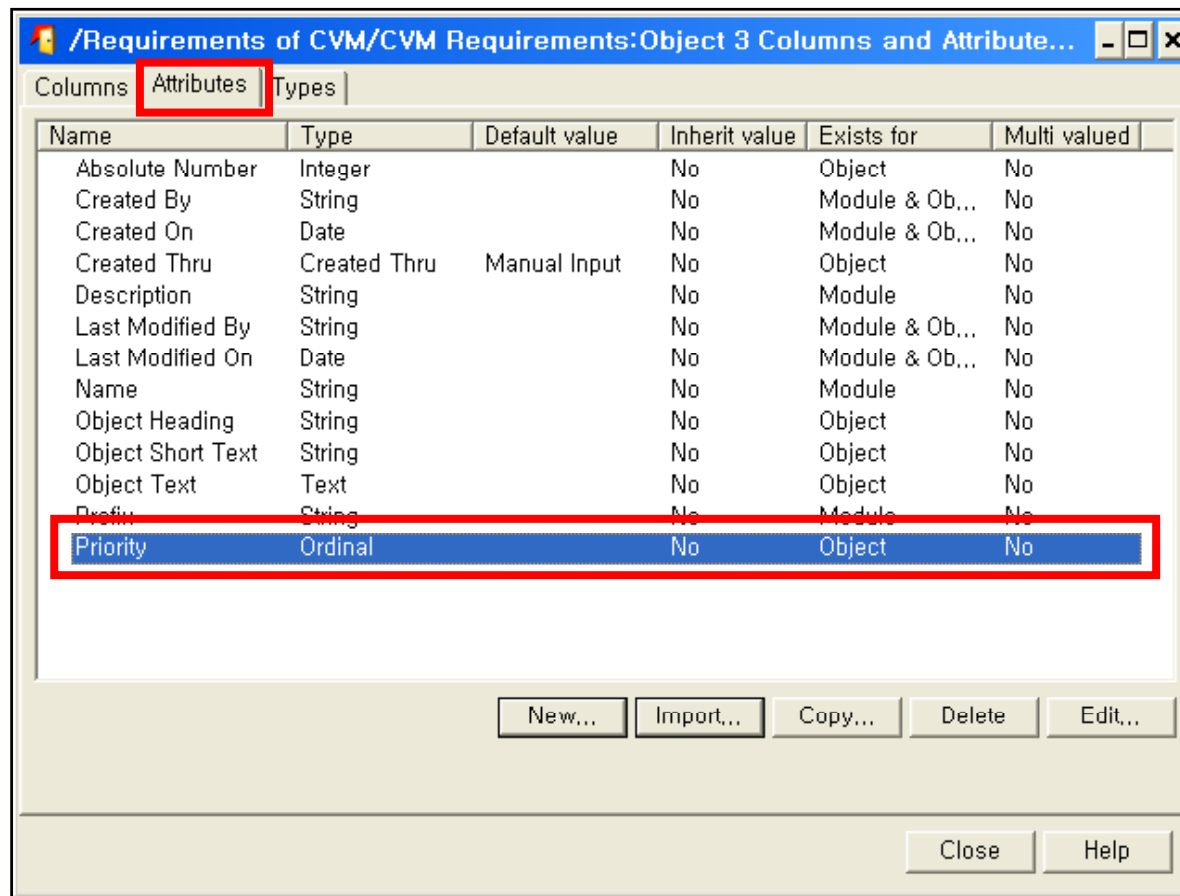
The screenshot shows the DOORS software interface. In the background, the 'Attributes' tab is active, displaying a table of existing attributes. The 'New...' button at the bottom of this window is highlighted with a red box, and a blue arrow points from it to the 'New Attribute - DOORS' dialog box in the foreground. The dialog box has the following settings:

- Name: Priority
- Type: Ordinal
- Locale: 한국어
- Exists for: Objects, Module
- Attribute should: Inherit value, Affect change bars, Affect change dates, Generate history
- Default value: High
- Add new attribute to current view

The 'OK' button at the bottom right of the dialog box is highlighted with a red box.

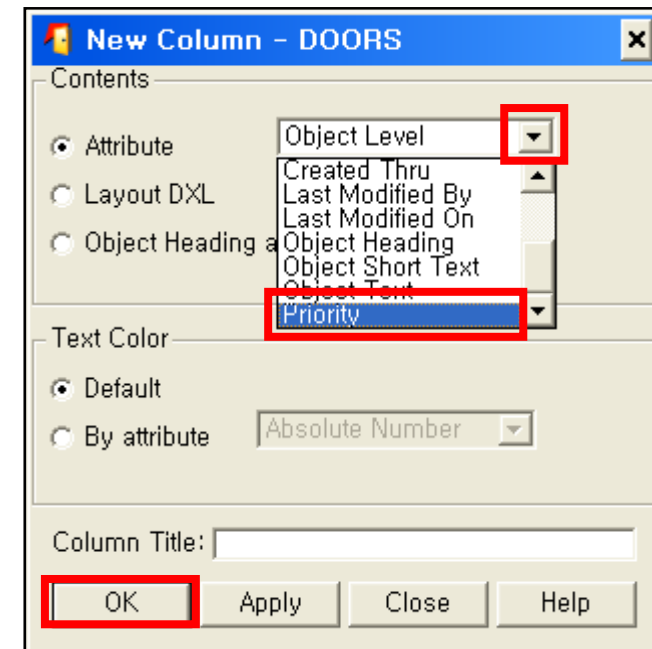
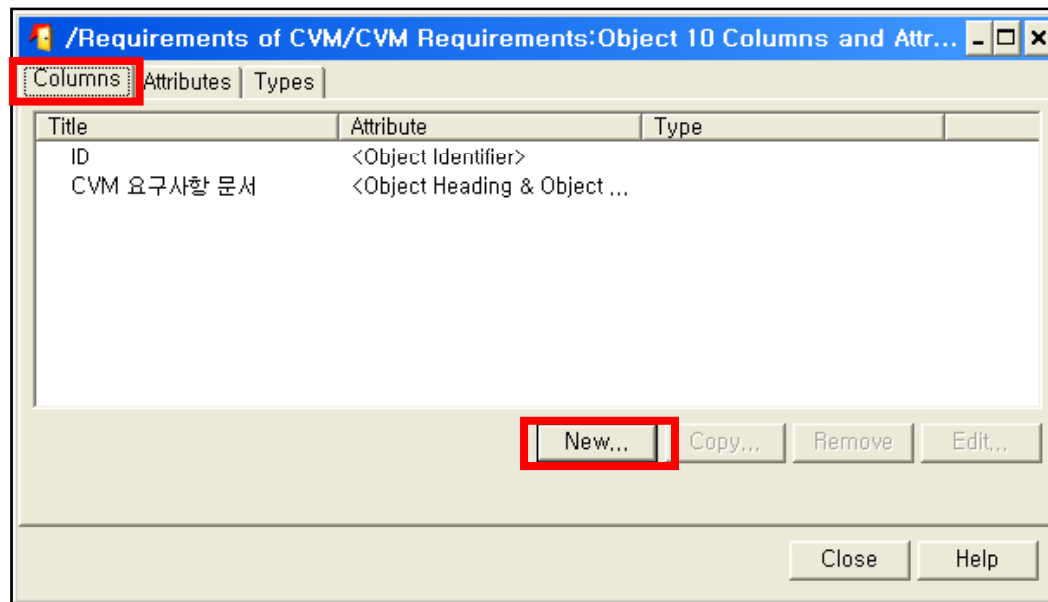
Creation of new attribute(2/6)

- Create new attribute(priority) of column(cont'd)



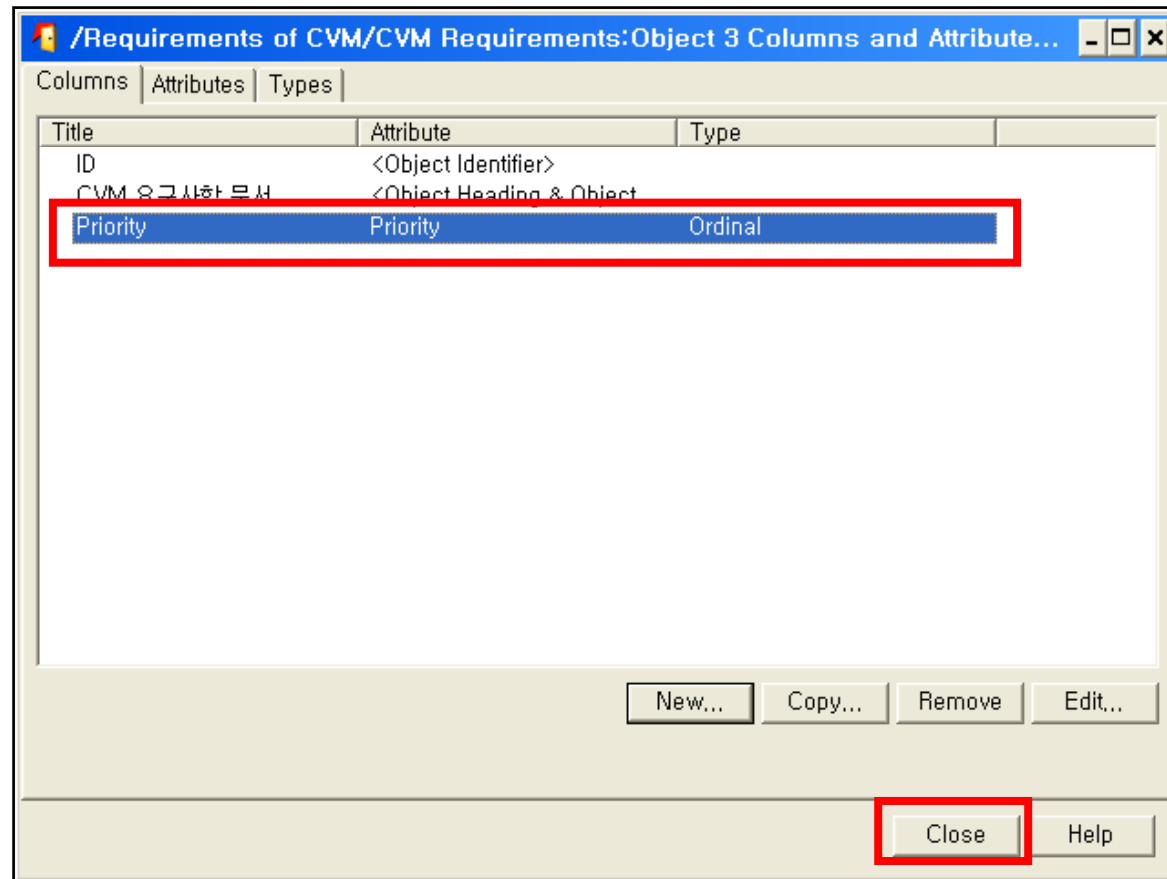
Creation of new attribute(3/6)

- Inserting a column of priority



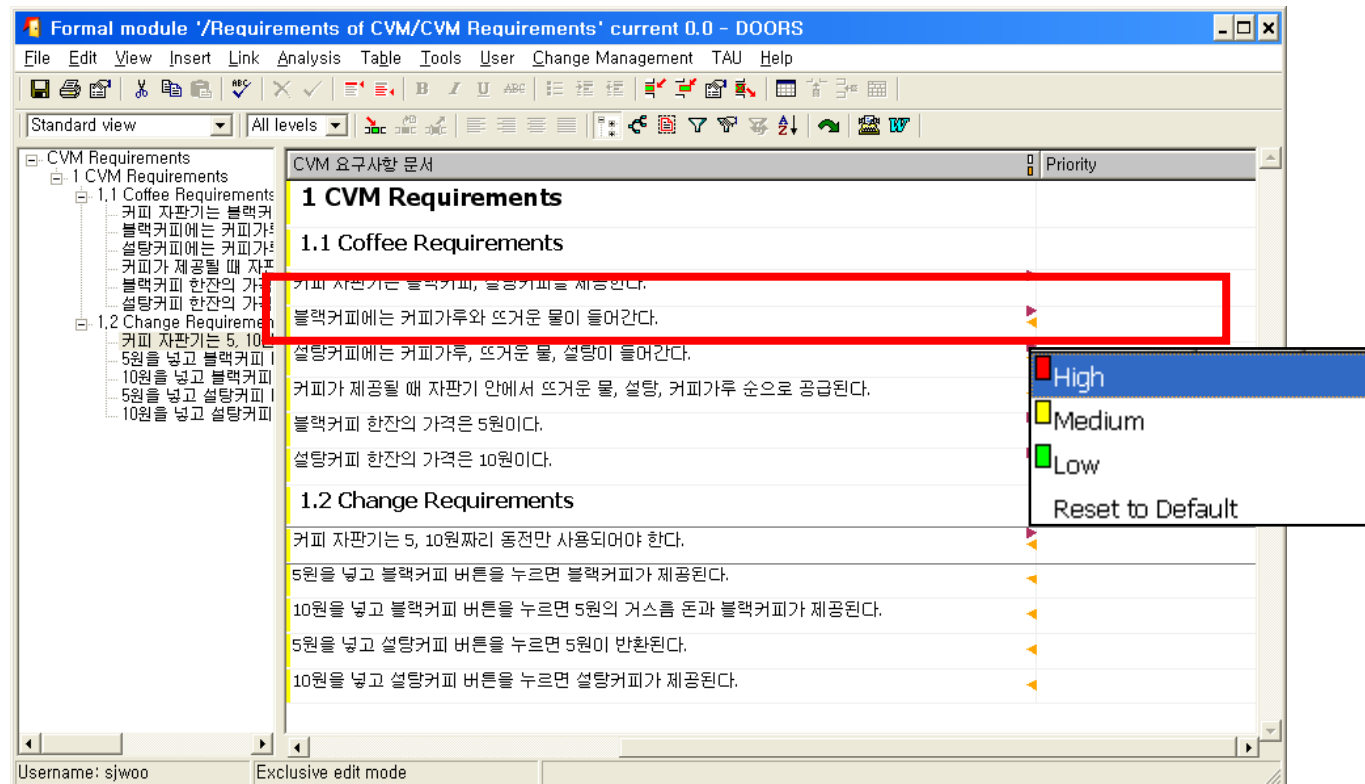
Creation of new attribute(4/6)

- Inserting a column of priority(cont'd)



Creation of new attribute(5/6)

- Edit priority attribute
 - Click or Edit → Object → Properties → Attributes → Select attribute → Edit



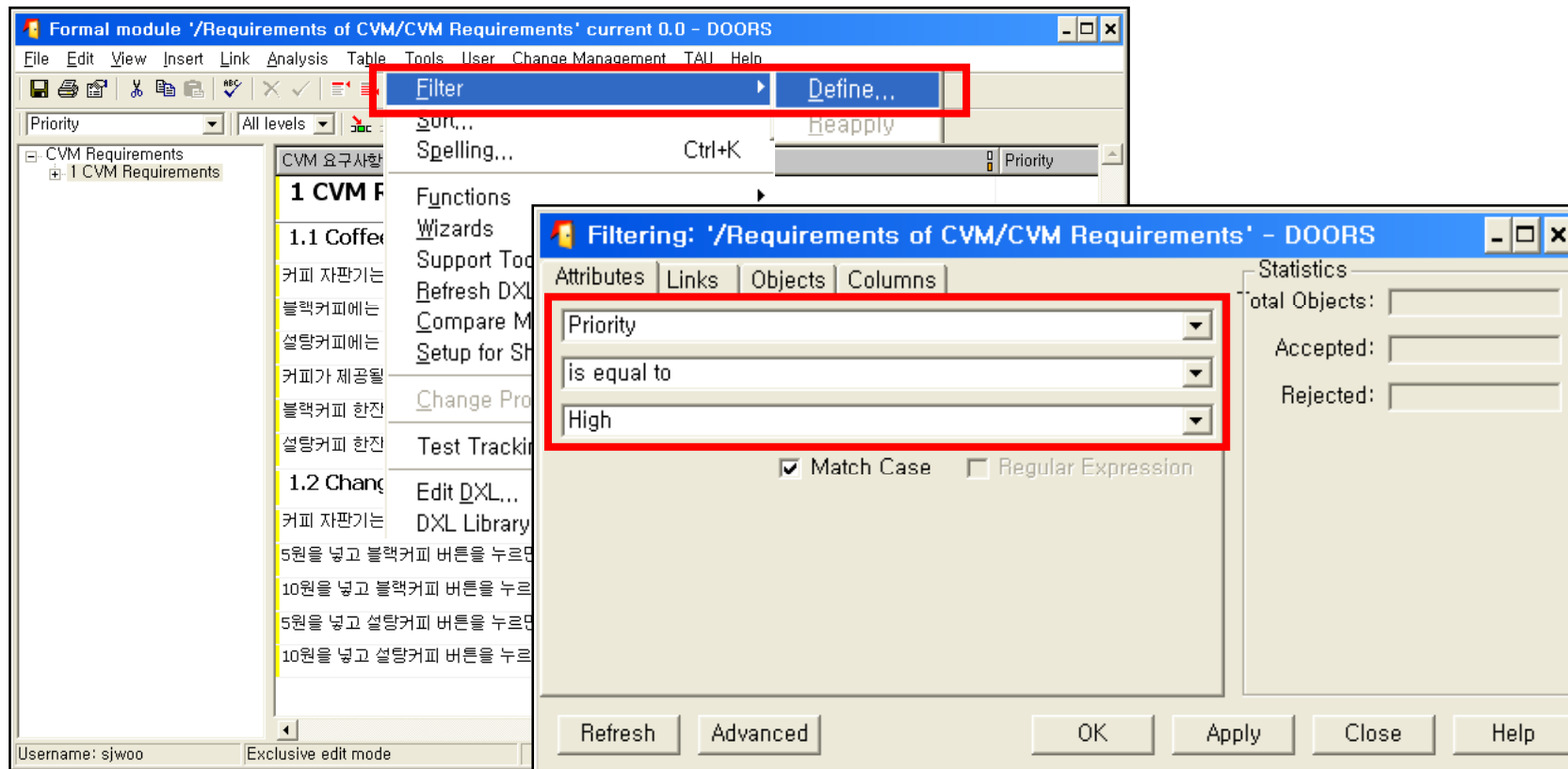
Creation of new attribute(6/6)

- View completion of priority attribute

CVM 요구사항 문서	Priority
1 CVM Requirements	
1.1 Coffee Requirements	
커피 자판기는 블랙커피, 설탕커피를 제공한다.	High
블랙커피에는 커피가루와 뜨거운 물이 들어간다.	Medium
설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.	High
커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.	Medium
블랙커피 한잔의 가격은 5원이다.	Low
설탕커피 한잔의 가격은 10원이다.	Low
1.2 Change Requirements	
커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.	High
5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.	Low
10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.	Medium
5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.	Medium
10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다.	Medium

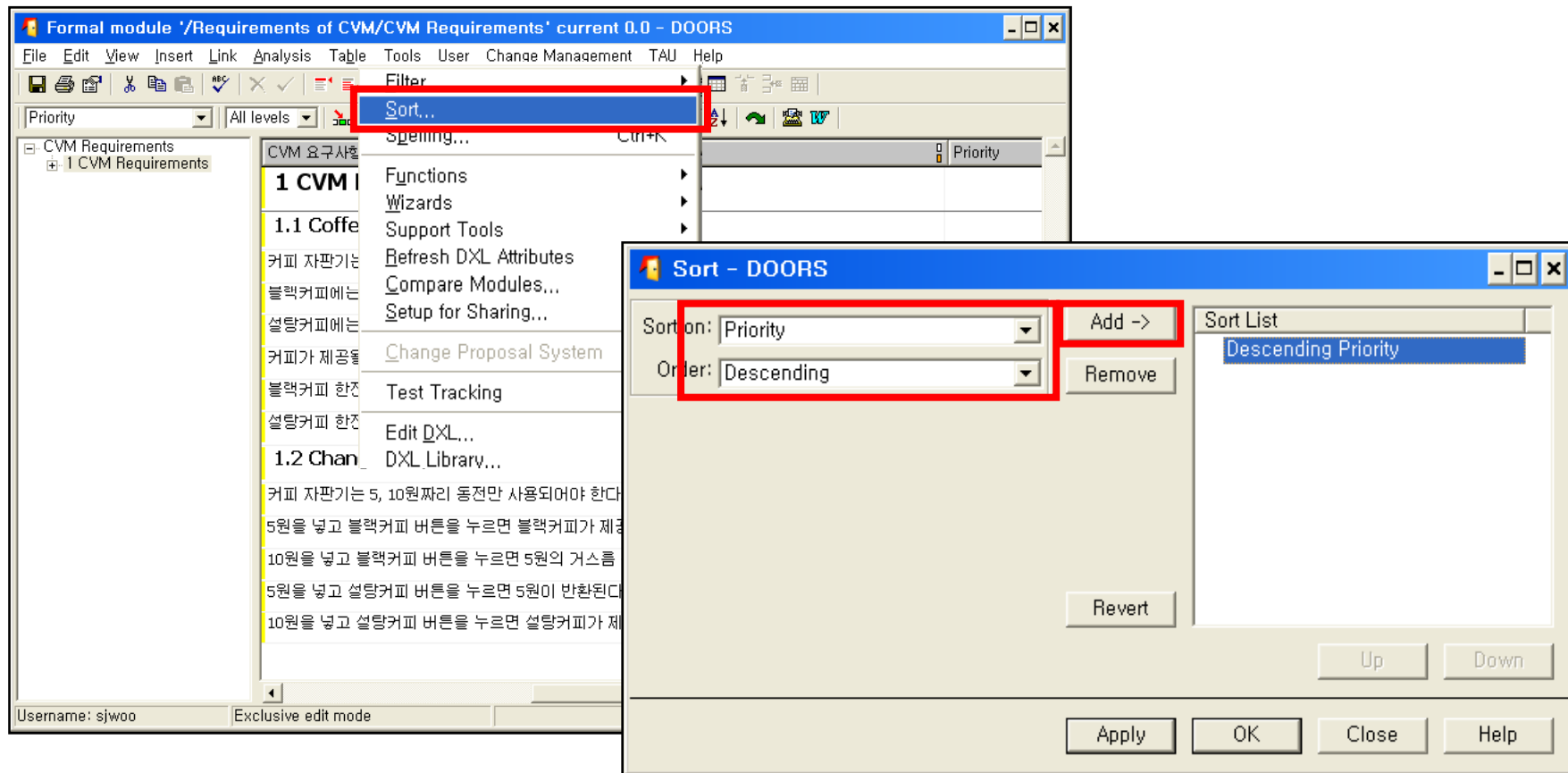
Finding and displaying the data(1/3)

- Filtering attribute



Finding and displaying the data(2/3)

- Sorting attribute



Finding and displaying the data(3/3)

- Result

- Filtering

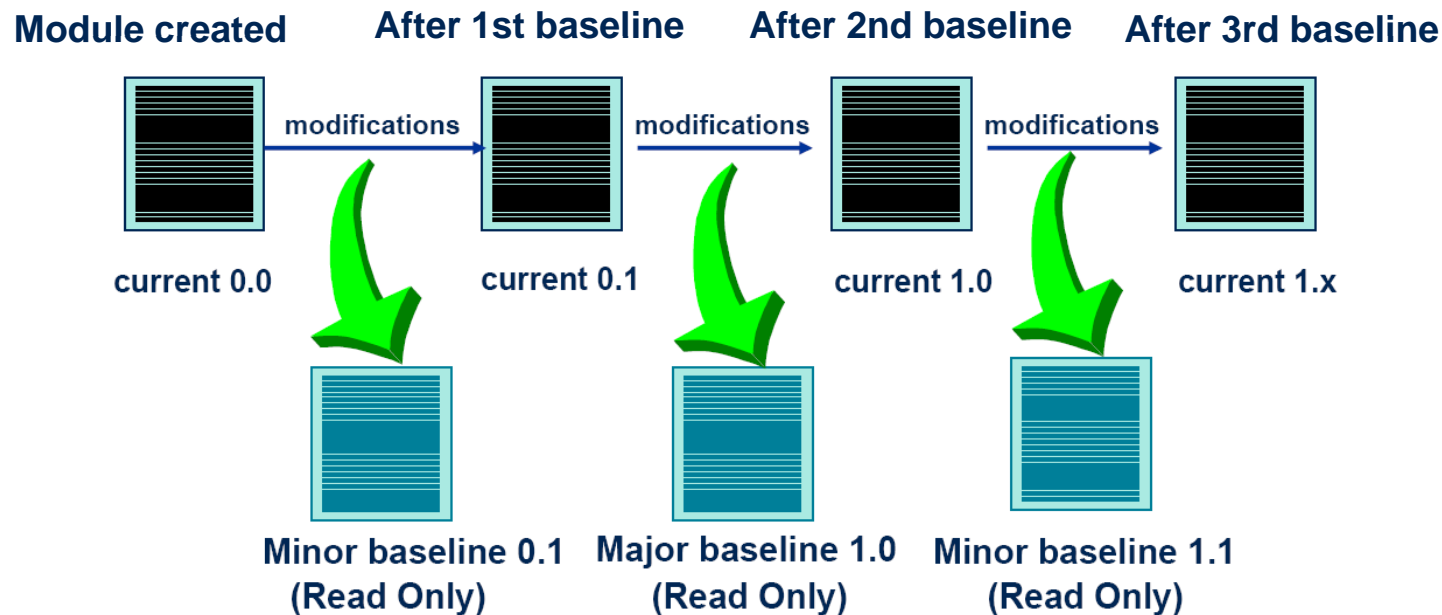
ID	CVM 요구사항 문서	Priority
3	커피 자판기는 블랙커피, 설탕커피를 제공한다.	High
5	설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.	High
10	커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.	High

- Sorting

ID	CVM 요구사항 문서	Priority
3	커피 자판기는 블랙커피, 설탕커피를 제공한다.	High
5	설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.	High
10	커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.	High
4	블랙커피에는 커피가루와 뜨거운 물이 들어간다.	Medium
6	커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.	Medium
12	10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.	Medium
13	5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.	Medium
14	10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다.	Medium
7	블랙커피 한잔의 가격은 5원이다.	Low
8	설탕커피 한잔의 가격은 10원이다.	Low
11	5원을 넣고 블랙커피 버튼을 누르면 블랙커피가 제공된다.	Low

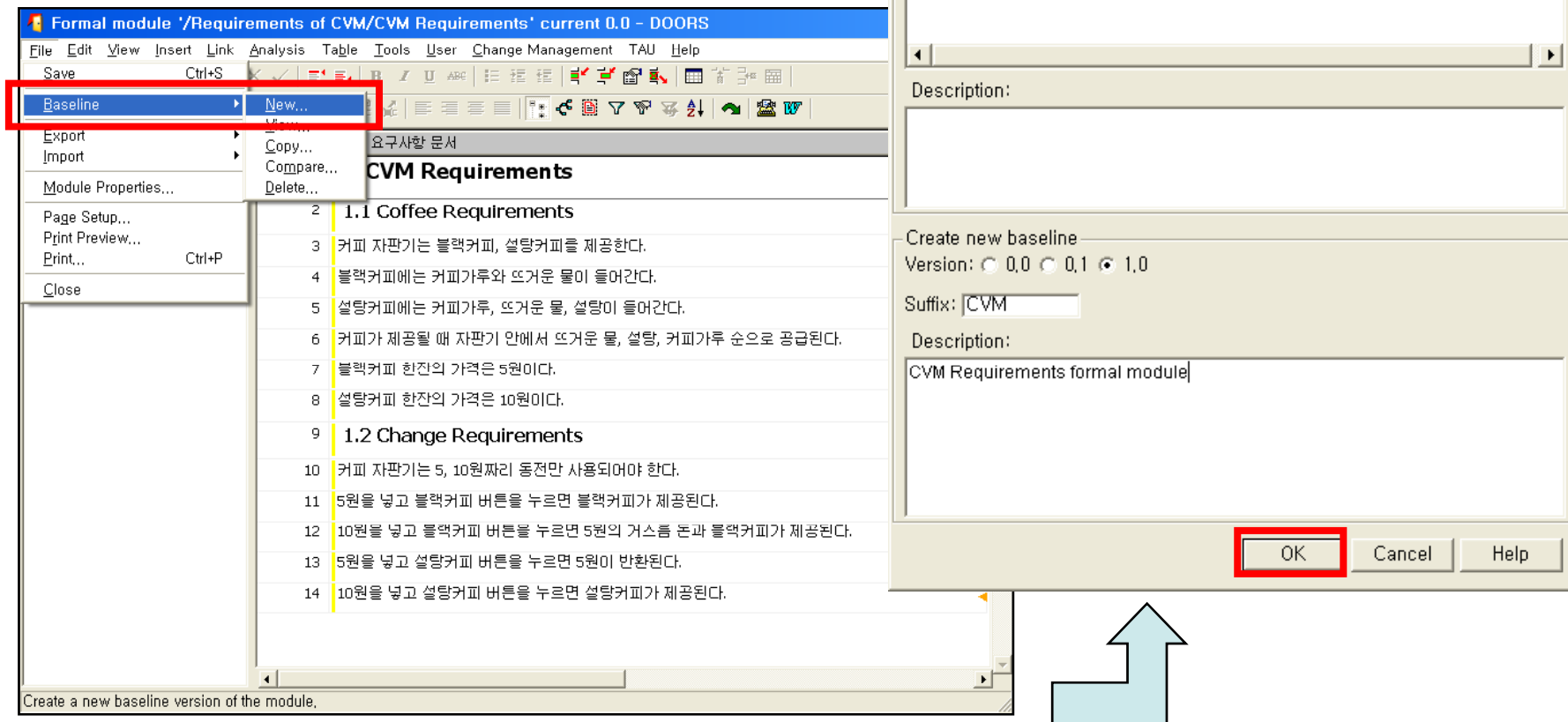
Using baselines(1/5)

- Understanding baseline
 - Baseline is a read-only version of a module
 - It captures a moment in time and preserves it until you delete the module
- Example of formal module timeline



Using baselines(2/5)

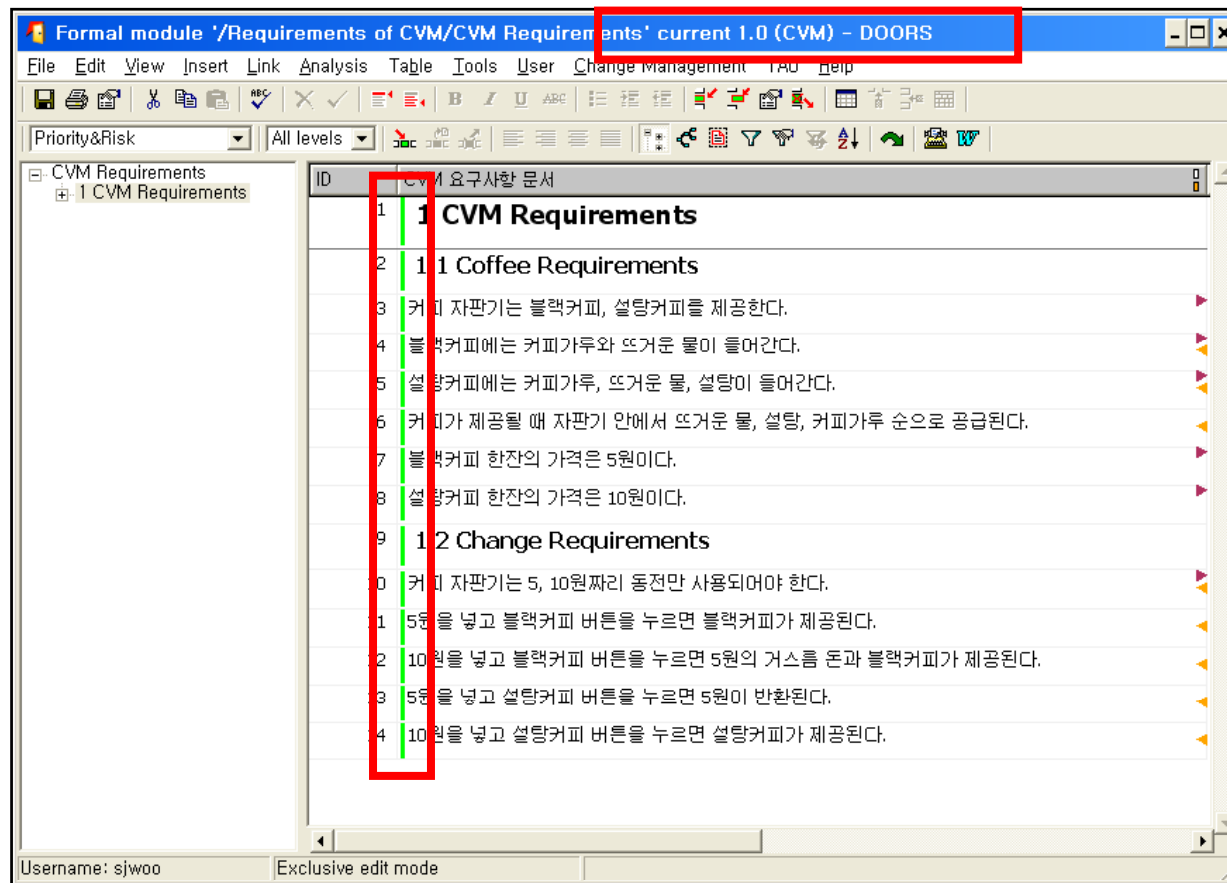
- Creating new baselines
 - File → Baseline → New



The screenshot shows the DOORS software interface. The 'File' menu is open, and the 'Baseline' option is selected, which has opened a sub-menu where 'New...' is highlighted. A red box highlights the 'New...' option in the sub-menu. The main window displays a list of requirements for 'CVM Requirements', including sections for '1.1 Coffee Requirements' and '1.2 Change Requirements'. The 'New Baseline - DOORS' dialog box is open on the right, showing the 'Baseline Set' as '[None]', a table of 'Existing baselines', a 'Description' field, and 'Create new baseline' options for 'Version' (0.0, 0.1, 1.0) and 'Suffix' (CVM). The 'Description' field contains 'CVM Requirements formal module'. The 'OK' button is highlighted with a red box, and a blue arrow points to it from below.

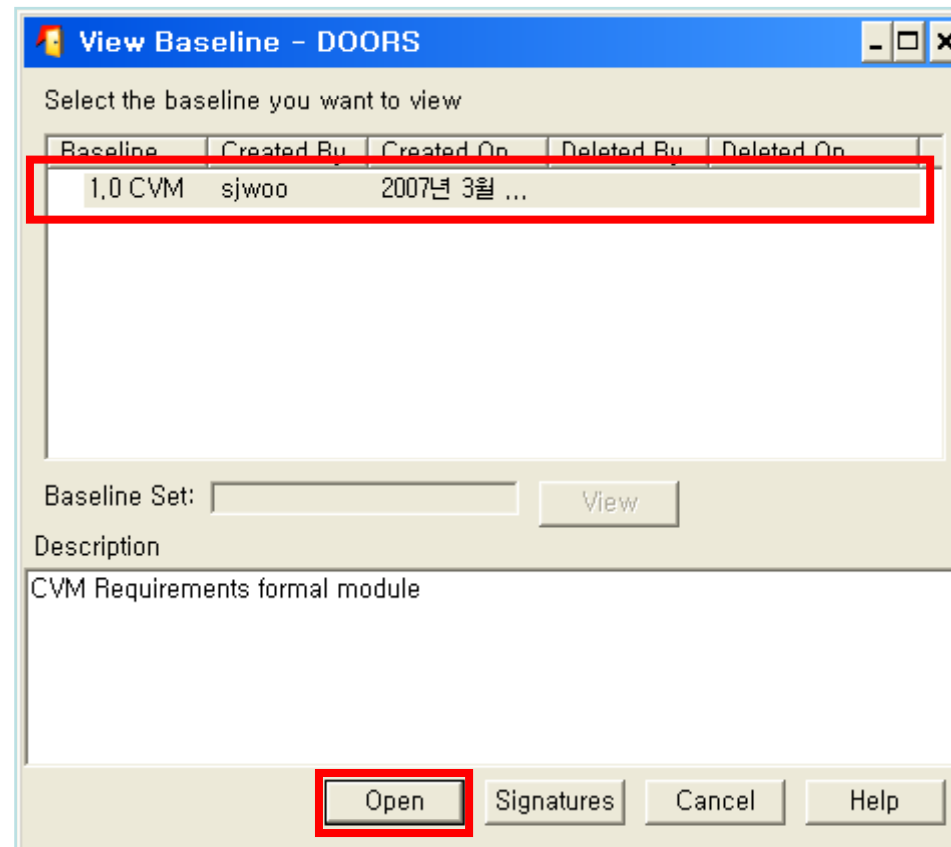
Using baselines(3/5)

- Creating new baselines(cont'd)



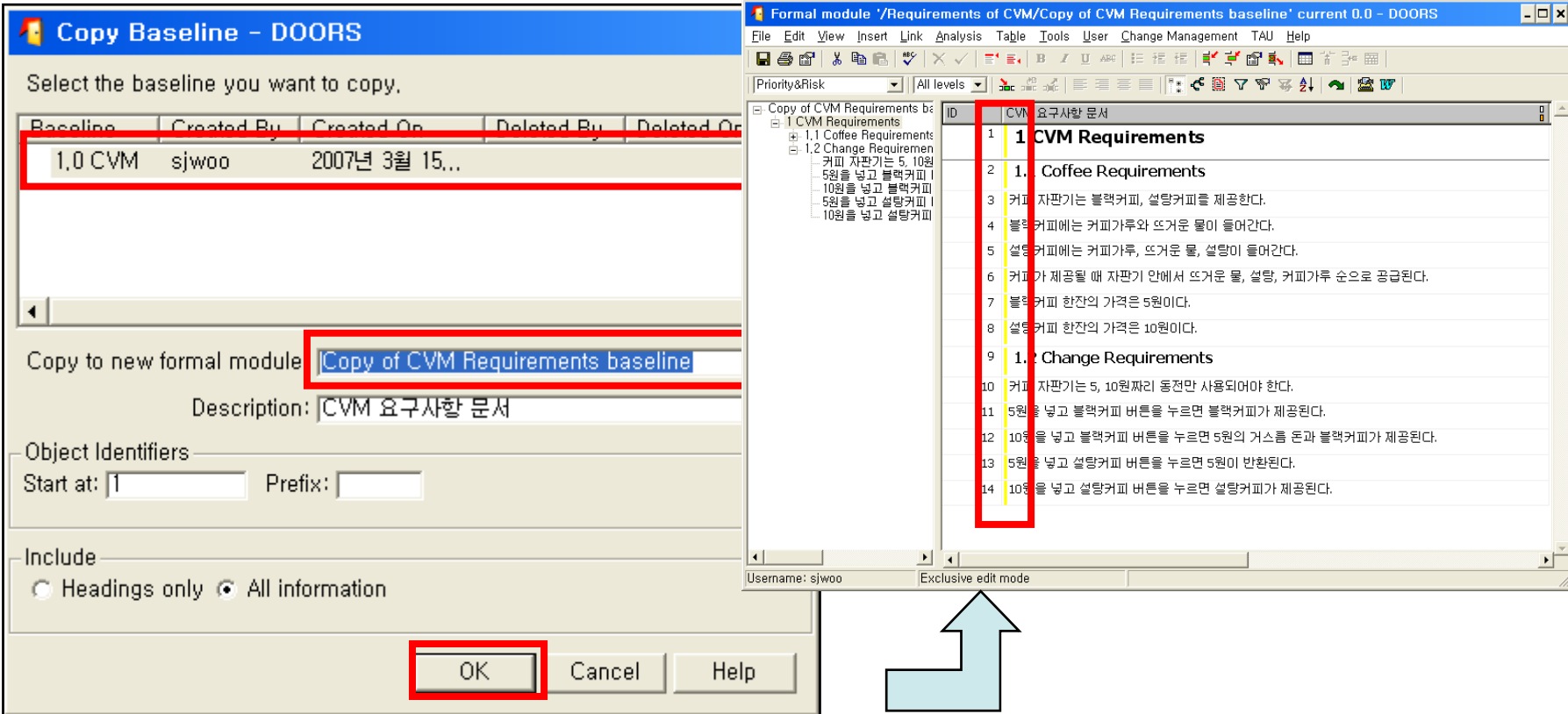
Using baselines(4/5)

- Opening baseline
 - File → Baseline → View



Using baselines(5/5)

- Copy baseline
 - File → Baseline → Copy



The screenshot shows the 'Copy Baseline - DOORS' dialog box on the left and a requirements document on the right. The dialog box has the following fields:

- Select the baseline you want to copy:** A table with columns: Baseline, Created By, Created On, Deleted By, Deleted On. The first row is highlighted with a red box: 1.0 CVM, sjwoo, 2007년 3월 15..
- Copy to new formal module:** Copy of CVM Requirements baseline (highlighted with a red box)
- Description:** CVM 요구사항 문서
- Object Identifiers:** Start at: 1, Prefix: (empty)
- Include:** Headings only, All information
- Buttons:** OK (highlighted with a red box), Cancel, Help

The requirements document on the right shows a list of requirements:

ID	CVM	요구사항 문서
1	1	CVM Requirements
2	1.	Coffee Requirements
3		커피 자판기는 블랙커피, 설탕커피를 제공한다.
4		블랙커피에는 커피가루와 뜨거운 물이 들어간다.
5		설탕커피에는 커피가루, 뜨거운 물, 설탕이 들어간다.
6		커피가 제공될 때 자판기 안에서 뜨거운 물, 설탕, 커피가루 순으로 공급된다.
7		블랙커피 한잔의 가격은 5원이다.
8		설탕커피 한잔의 가격은 10원이다.
9	1.	Change Requirements
10		커피 자판기는 5, 10원짜리 동전만 사용되어야 한다.
11		5원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.
12		10원을 넣고 블랙커피 버튼을 누르면 5원의 거스름 돈과 블랙커피가 제공된다.
13		5원을 넣고 설탕커피 버튼을 누르면 5원이 반환된다.
14		10원을 넣고 설탕커피 버튼을 누르면 설탕커피가 제공된다.

A blue arrow points from the 'OK' button in the dialog box to the requirements document.

Summary

- Introduction of the basic concepts to create SRS in DOORS
 - Folder, project, formal module
 - Object
 - Heading, text, etc.
- Setting the **link** between requirements
 - Check link module and traceability
- Creation of new **attributes**
 - Understanding system attributes and attribute types