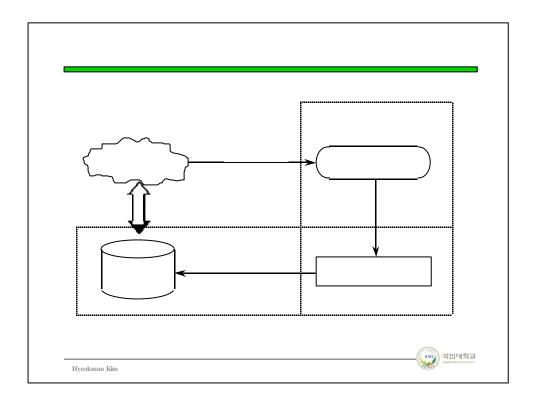


```
. (conceptual design)

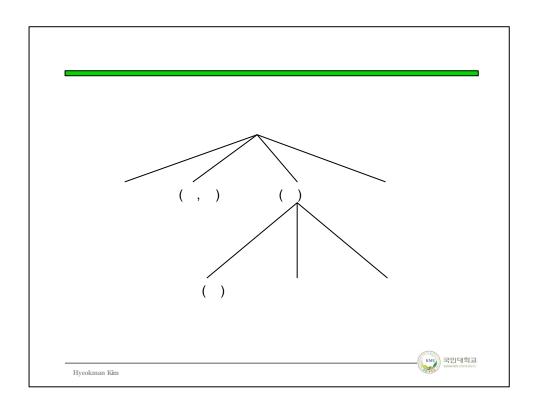
- :
- Entity type & attribute

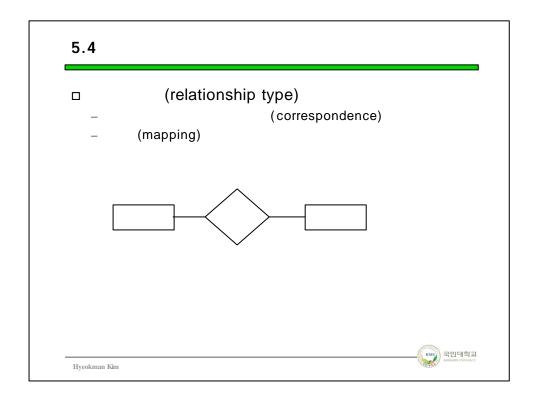
. (logical design)
- (data modeling):
(access method)

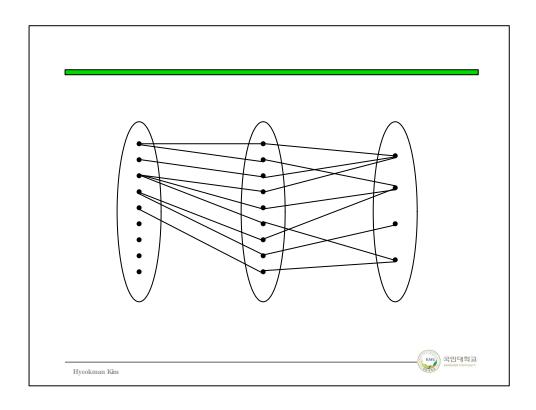
. (physical design)
- (data structuring):
```



```
5.3
                (entity type)
(entity set):
                  (attribute)
(composite)
   i.
          (simple)
   ii.
             (single-valued)
                                                     (multivalued)
           (stored)
   iii.
                                        (derived)
         (null)
   iv.
           - not applicable
           - unknown: missing, not known
                                                              RMU 국민대학교
ROOKMIN UNIVERSITY
Hyeokman Kim
```







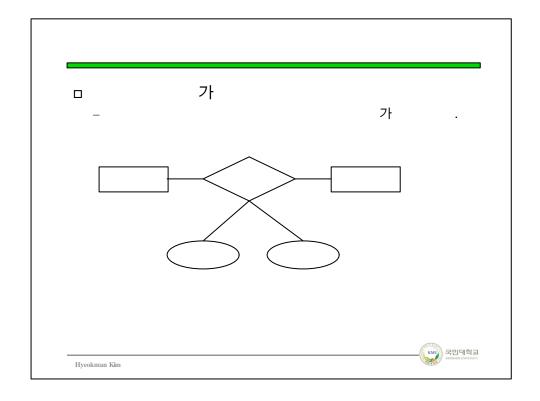
```
- 1:1( )
fx:x y and
fy:y x
marriage: bridegroom bride

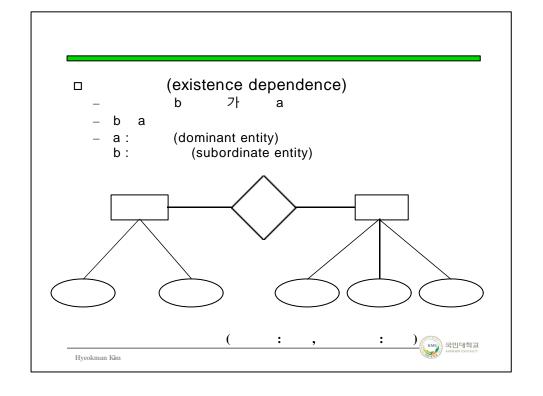
- 1:n( )
fx:x y or
fy:y x (but not both)
mothership: mother children
```

```
- n:1( )
fx:x y or
fy:y x (but not both)
position: professor department

- n:m( )
fx:x y
fy:y x (neither)
enrollment: student course

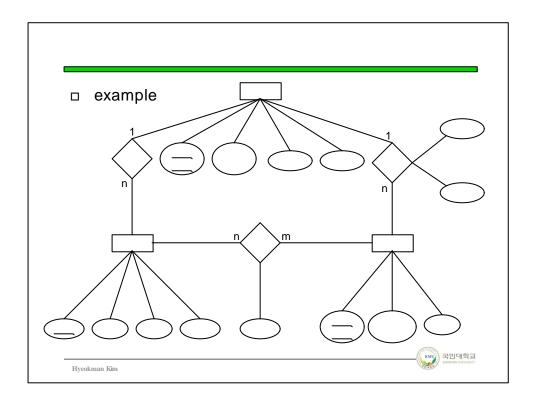
Note: (functionality)
```

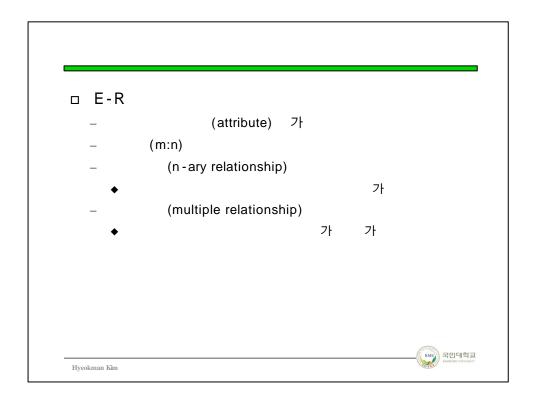


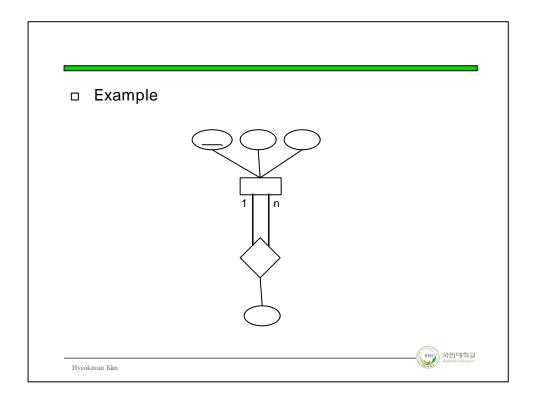


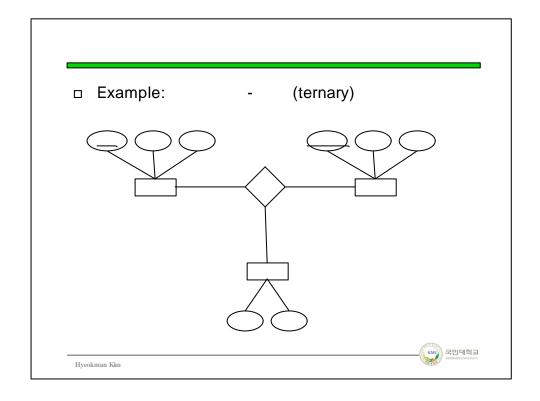
5.5	_	
0		
	:	
0	:	
Hyeokman K	im	조민대학교 Modern Contract

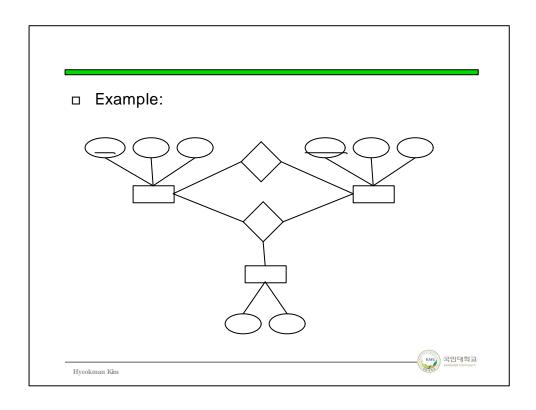
E	- R				
	1976	6. Peter Cher	1		
	⊒ E-R -	(entity t	ype)		
	_	(relation	nship type)		>
	_	(attribute)			)
	_	(link)			
	_	(label) :	(1:1),	(1:n),	(n:m)
Н	Iyeokman Kim				KMU) 국민대학교 KOMMINISHINI

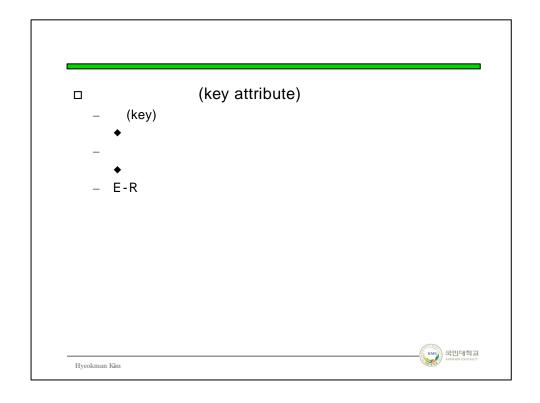


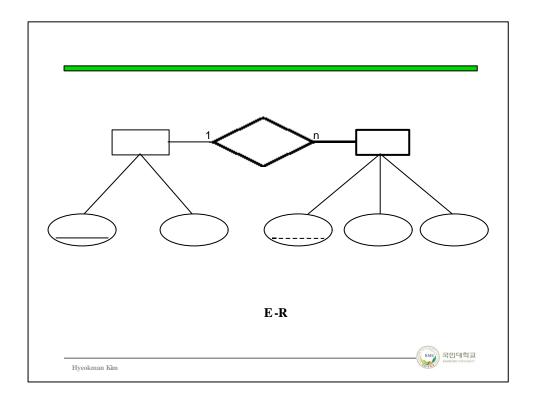


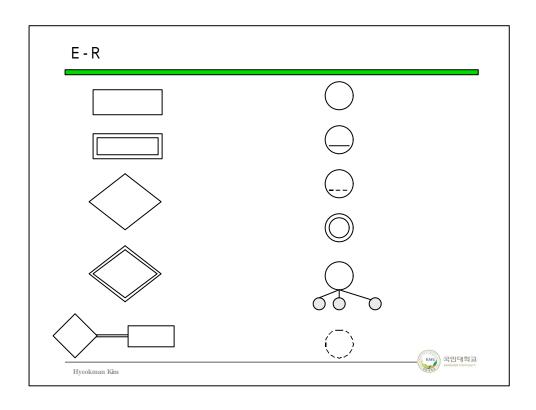


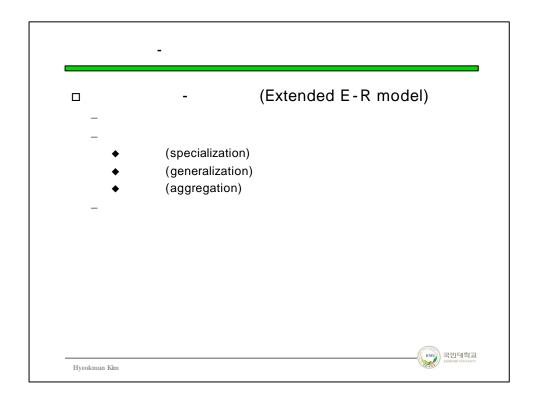


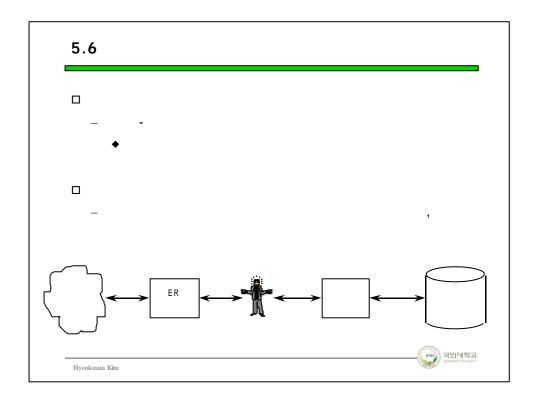


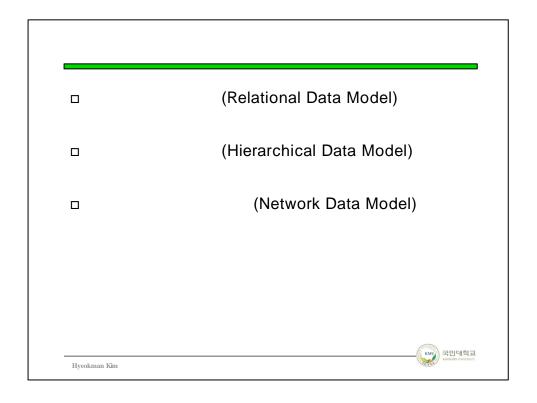






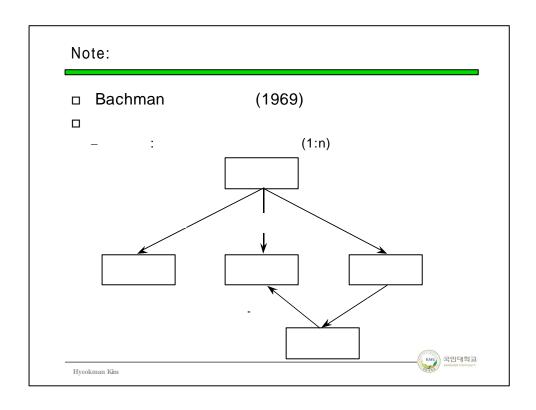






	( )
_ _ _	(Relation Scheme)
Hyeokman Kim	국민데학교

<ul> <li>Entity type</li> </ul>		
<ul> <li>Relationship</li> </ul>		
_ フ	<u> </u>	
•		
<ul> <li>Entity type</li> </ul>	mapping	
♦ 1:1 : relation		가
♦ 1:n : relation	nship	
가 (many ◆ m:n :	) 가	
– Null	71	
•	null	
· ◆ 가		•



```
- : ( )
- (link;arc): (1:n)
- :
- : 
- : 
- : 
- : 
- : :
```

