







A Table Image of RDB							
Attril Primary Key	Attribute Name Relation Name S Primary Key Products						
ProductID	ProductType	Price					
P001	Laptop PC	1,500					
P002	Laptop PC	2,000	Cardinality				
P003	Desktop PC	2,000					
	Attribute						
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 Projection π Derive specified attributes with eliminating duplication 								
ProductID	ProductType	Price		ProductType				
P001	Laptop PC	1,500						
P002	Laptop PC	2,000						
P003	Desktop PC	2,000		Desktop PC				
π _{ProductType} Products = { t[ProductsType] Products(t) } * Delta Projection: without eliminating duplication 2020/6/25 Advance Data Engineering (©H.Yokota)								

 Selection σ Derive all tuples satisfying specified conditions 								
	ProductID	ProductType	Price					
	P001	Laptop PC	1,500					
	P002	Laptop PC	2,000					
	P003	Desktop PC	2,000					
	ProductID	ProductType	Price					
	P002	Laptop PC	2,000					
	P003	Desktop PC	2,000					
σ _{Price > 1,800} Products = { t Products(t) ∧ t[Price] > 1,800}								
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