# Database modeling

**Primary Keys** 

# **Natural Key**

### Book

ISBN	Title	ReleaseDate	ListPrice	
1596717521	JavaScript Essential Training	6/1/2011	\$149.95	
321158814	Building Rich Internet Apps	3/2/2003	\$39.95	
765359146	Red	11/1/2008	\$7.95	

# **Natural Key**

### Book

ISBN	Title	Title ReleaseDate		
1596717521	JavaScript Essential Training	6/1/2011	\$149.95	
321158814	Building Rich Internet Apps	3/2/2003	\$39.95	
765359146	Red	11/1/2008	\$7.95	

## **Natural Key**

### Book

ISBN	Title	ReleaseDate	ListPrice	
1596717521	JavaScript Essential Training	6/1/2011	\$149.95	
321158814	Building Rich Internet Apps	3/2/2003	\$39.95	
765359146	Red	11/1/2008	\$7.95	

Primary Key (PK) (natural key)

# **Surrogate Key**

### Customer

FirstName LastName En	ail Address
-----------------------	-------------

### **Surrogate Key**

Customer						
CustomerID	FirstName	LastName	Email	Address		

## **Composite Key**

### Yearbook

School	Year	ListPrice	PageCount	UnitsInStock	
Orchard High	2010	\$29.95	144	32	
Orchard High	2011	\$34.95	132	14	
Lawstone Elementary	2010	\$29.95	161	0	
Lawstone Elementary	2011	\$29.95	155	38	
Lawstone Elementary	2012	\$34.95	172	144	

# **Composite Key**

### Yearbook

School	Year	ListPrice	PageCount	UnitsInStock	
Orchard High	2010	\$29.95	144	32	
Orchard High	2011	\$34.95	132	14	
Lawstone Elementary	2010	\$29.95	161	0	
Lawstone Elementary	2011	\$29.95	155	38	
Lawstone Elementary	2012	\$34.95	172	144	

### **Primary Keys**

- 1. Natural Key
- 2. Surrogate or synthetic Key
- 3. Composite Key