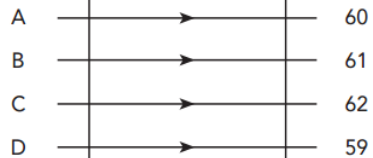


One to One Relation Mapping Diagram

Input Relation Output



Relation Consists of Ordered Pairs

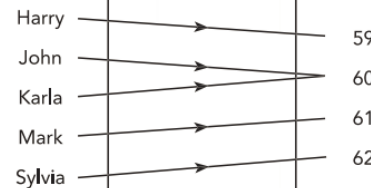
$\{(A,60), (B,61), (C,62), (D,59)\}$

One to One Relation Real World

Every student has a social security number. Other examples include: School ID and Finger print.

Many to One Relation Real World

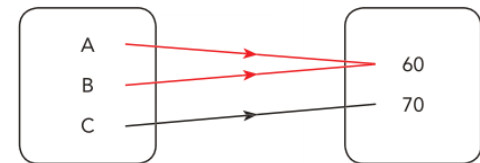
Student Relation Test Score



Many students have can the same test score. Other examples include students with same age.

Many to One Relation

Input Relation Output

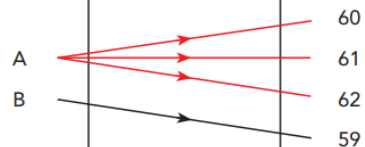


Relation Consists of Ordered Pairs

$\{(A,60), (B,60), (C,70)\}$

One to Many Relation Mapping Diagram

Input Relation Output

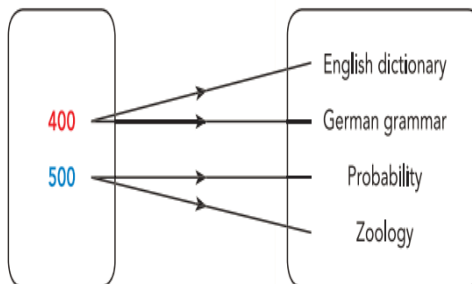


Relation Consists of Ordered Pairs

$\{(A,60), (A, 61), (A, 62), (B, 59)\}$

One to Many Relation Real World

Dewey Decimal Category Relation Book Title



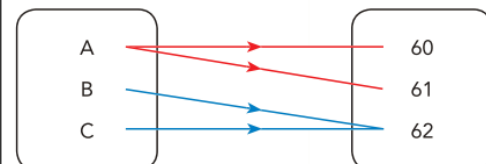
Other examples include: School ID and Finger print. Alphabetize by first name

Many to Many Relation Real World

Other examples include: Black Friday Shopping– Items relation to Items Sold

Many to Many Relation Mapping Diagram

Input Relation Output



Relation Consists of Ordered Pairs

$\{(A,60), (A, 61), (B, 62), (C, 62)\}$