

$$x \rightarrow y \in F.$$

## Dipendenza Funzionale

$\forall d: R$   
 gegebene  
 (instanzen)  
 VALIDA

$\forall t_1, t_2 \in r \mid$   
 $t_1[x] = t_2[x] \Rightarrow$   
 $t_1[y] = t_2[y]$

$$F \models X \rightarrow Y$$
$$F^+ = \{x \rightarrow y \mid F \models x \rightarrow y\}$$

↓  
dinner

Decomp  $\left[ \begin{array}{l} X \rightarrow Y \\ \text{Vollst.} \\ X \rightarrow A_i \quad i=1, \dots, m \end{array} \right. \quad Y = \theta_1 \dots \theta_m$

$$F = \{ A \rightarrow B, B \rightarrow C, (A \rightarrow C) \}$$
$$G = \{A \rightarrow B, B \rightarrow C\} \text{ Redundant}$$

STUDENT 2 (matr., name, insk, tel)

$$F = \left\{ \begin{array}{l} \text{matr} \rightarrow \text{Mater} \\ \text{mon} \rightarrow \text{ind, tel} \\ \text{matr, ind} \rightarrow \text{Tel} \end{array} \right\}$$

②

$R$   

A	B	C
$a_1$	$b_1$	$c_1$
$a_2$	$b_1$	$c_2$

$R_1$   

A	B
$a_1$	$b_1$
$a_2$	$b_1$

$R_2$   

B	C
$b_1$	$c_1$
$b_1$	$c_2$

$A \ B \ C$   

$a_1$	$a_2$	$b_3$
$b_{21}$	$a_2$	$a_3$

$m_d(-) \neq c$

(4)

A	3	C
$a_1$	$b_1$	$c_1$
$a_2$	$b_1$	$c_2$
$a_2$	$b_1$	$c_1$
$a_2$	$b_1$	$a_2$

$m_d(r)$

$$R \quad F \quad d = \{R_1, R_2, \dots, R_k\}$$

Diagram illustrating the structure of a matrix  $A$  with rows  $R_1, R_2, \dots, R_k$  and columns  $A_1, A_2, \dots, A_j, \dots, A_m$ . The element  $a_{ij}$  is highlighted at the intersection of row  $R_i$  and column  $A_j$ .

$$R(A^3C) \quad F = \{A \rightarrow B \quad B \rightarrow C \quad C \rightarrow A\}$$

-  $A^+ = \{A, BC\}$  A chiave

$$B^+ = \{B, C, A\} \quad B \quad 4$$
$$C^+ = \{A, B, C\} \subset U$$

CITA	IND	CAD
CARRO	V. AD ✓	95125
CARRA	V. PRL	95130
ACIAR	V. RONA	95024
CARRO	V. D	95125

CIT      V. AD      95130

CITWA, IND  $\rightarrow$  CAP  
CAP  $\rightarrow$  CITR

$CAP \rightarrow C_{ITR}$

$R_1$

IND	CAP
V. 80	95125
V. 912	915130
V. 1201	95922
V. 11	95130

CAP → City

$R_2$

Cliv.	Cap
CT	95123
CT	95124
Cap	95024
CT	95120

$$R(C, DA, PRBF, T \in \mathcal{E})$$
$$PRB \vdash \rightarrow \widehat{CWA}.$$

$E, n, \text{Tel} \rightarrow \text{Prof}$