

Consider the following relation definition and sample data:

PROJECT Relation

ProjectID	EmployeeName	EmployeeSalary
100A	Jones	64K
100A	Smith	51K
100B	Smith	51K
200A	Jones	64K
200B	Jones	64K
200C	Parks	28K
200C	Smith	51K
200D	Parks	28K

PROJECT (ProjectId, EmployeeName, EmployeeSalary)

Where ProjectId is the name of a work project

EmployeeName is the name of an employee who works on that project

EmployeeSalary is the salary of the employee whose name is EmployeeName

Assuming that all of the functional dependencies and constraints are apparent in this data, which of the following statements is true?

- a. $\text{ProjectID} \rightarrow \text{EmployeeName}$
- b. $\text{ProjectID} \rightarrow \text{EmployeeSalary}$
- c. $(\text{ProjectID}, \text{EmployeeName}) \rightarrow \text{EmployeeSalary}$
- d. $\text{EmployeeName} \rightarrow \text{EmployeeSalary}$
- e. $\text{EmployeeSalary} \rightarrow \text{ProjectID}$
- f. $\text{EmployeeSalary} \rightarrow (\text{ProjectID}, \text{EmployeeName})$

Consider the following relation definition and sample data:

PROJECT-HOURS Relation

EmployeeName	ProjectID	TaskID	Phone	TotalHours
Don	100A	B-1	12345	12
Don	100A	P-1	12345	12
Don	200B	B-1	12345	12
Don	200B	P-1	12345	12
Pam	100A	C-1	67890	26
Pam	200A	C-1	67890	26
Pam	200D	C-1	67890	26

PROJECT-HOURS (EmployeeName, ProjectID, TaskID, Phone, TotalHours)

Where EmployeeName is the name of an employee

ProjectID is the name of a project

TaskID is the name standard work task

Phone is the employee's telephone number

TotalHours is the hours worked by the employee on this project

Assuming that all of the functional dependencies and constraints are apparent in this data, which of the following statements is true?

- a. EmployeeName \twoheadrightarrow ProjectID
- b. EmployeeName $\rightarrow\rightarrow$ ProjectID
- c. EmployeeName \rightarrow TaskID
- d. EmployeeName $\rightarrow\rightarrow$ TaskID
- e. EmployeeName \rightarrow Phone
- f. EmployeeName \rightarrow TotalHours
- g. (EmployeeName, ProjectID) \rightarrow TotalHours
- h. (EmployeeName, Phone) \rightarrow TaskID
- i. ProjectID \rightarrow TaskID
- j. TaskID \rightarrow ProjectID