Quiz#3

06-12-2010

Question#1

$$(3+2)$$

Consider the following relational schema

EmpProject(EID, EName, Age, Address, salary, bonus, PID, PName, hoursWorked)

And the following functional dependencies:

$$EID \rightarrow EName$$

$$PID \rightarrow PName$$

$$EID \rightarrow Address$$

$$salary \rightarrow bonus$$

$$EName, Address \rightarrow Age$$

$$PID, SID \rightarrow hoursWorked$$

- a. Find (EID,PID)+.
- b. Is the combination (EID,PID) a super key for the given relation?

Question#2 (2)

R(A,B,C,D,E)

Primary Key = (A,C)

$$C \rightarrow E$$

$$A, B \rightarrow C, D, E$$

$$A, C \rightarrow B, D, E$$

What is the highest normal form the R is in?

Question#3

R(A,B,C,D,E)

Primary Key = (A,B)

(3)

$$C \rightarrow B$$

$$A, B \rightarrow C, D, E$$

$$A, C \rightarrow B, D, E$$

Convert R to BCNF.