

Homework: Normalization

- Make sure that your decomposition is lossless.
- Make sure that you underline the key of every relation you produce.
- Answer all the questions although I may check only some of them for grading.

(1)

WorksOn (empID, projID, projMgr, projName, payRate, hoursPerWeek)

Given that: projMgr \rightarrow projID
 projID \rightarrow projName

- What is the highest normal form that the above relation satisfies? _____
- Decomposition into BCNF:

(2)

CarSale (car#, salesman#, dateSold, commissionRate, discount)

Given that: Date_sold \rightarrow discount
 salesman# \rightarrow commissionRate
 car# \rightarrow Date_sold

- What is the highest normal form that the above relation satisfies? _____
- Decomposition into BCNF:

(3)

Book (title, author, type, price, affiliation, publisher)

Given that: title \rightarrow type, publisher
 type \rightarrow price
 author \rightarrow affiliation

- What is the highest normal form that the above relation satisfies? _____
- Decomposition into BCNF: