**Problem 3**

Initial tables

Student (StdNo, StdName, StdEmail, StdAddress, StdCity, StdState, StdZip)

Lender(LenderNo, LenderName)

UNIQUE LenderName

Institution(InstNo, InstName, InstMascot)

UNIQUE InstName

Checking or BCNF…

1. Student table has FD StdZip -> StdCity, StdState

We may split table on two:

*Student (StdNo, StdName, StdEmail, StdAddress, StdZip)*

*FOREIGN KEY StdZip REFERENCES Zip*

*Zip (StdZip, StdCity, StdState)*

1. Lender and Institution tables need additional constrains for unique attributes

*Lender(LenderNo, LenderName)*

*UNIQUE LenderName*

*Institution(InstNo, InstName, InstMascot)*

*UNIQUE InstName*