**Problem 3:** You should determine if the *Student*, *Lender*, and *Institution* tables are in BCNF. In the *Lender* table, *LenderName* is unique. In the *Institution* table, *InstName* is unique. In the *Student* table, *StdEmail* is unique. The primary key of each table is underlined. The primary key of each table is underlined. You should explain your decision and modify the table design by splitting tables or adding constraints if necessary.

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

Lender (LenderNo, LenderName)

Institution (InstNo, InstName, InstMascot)

**Solution:**

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

UNIQUE (StdEmail)

Reason: In the Student table, StdEmail is unique. Violates BCNF

Lender (LenderNo, LenderName)

UNIQUE (LenderName)

Reason: In the Lender table, LenderName is unique

Institution (InstNo, InstName, InstMascot)

UNIQUE (InstName)

Reason: In the Institution table, InstName is unique. Violates BCNF