

WEEK-7

Peer-graded Assignment: Module 11 Assignment

Problem-3

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.

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

Lender (LenderNo, LenderName)

Institution (InstNo, InstName, InstMascot)

Solution 3:

- the **Student** table:

The dependencies between **StdNo** and **StdEmail** violate BCNF. Both **StdNo** and **StdEmail** are determinants

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

- The **Institution** table:

The dependencies between **InstNo** and **InstName** violate BCN

Institution (InstNo, InstName, InstMascot)
UNIQUE(InstName)

- The **lender** table:

Lender (LenderNo, LenderName)
UNIQUE(LenderName)