Q3: Determination of whether given tables(Student, Lender, Institution) are in BCNF

1. Student:

a. Student table is not in BCNF because StdZip → StdCity, StdState. Create a new table StudentZip, with attributes StdZip, StdCity, StdState. StdZip is the primary key.

2. Lender:

a. Lender table is in BCNF

3. Institution

a. Institution table is in BCNF

Final tables:

- 1. Student(StdNo, StdName, StdEmail, StdAddress, StdZip(FK))
- 2. StudentZip(<u>StdZip</u>, StdCity, StdState)
- 3. Lender(<u>LenderNo</u>, LenderName)
- 4. Institution(InstNo, InstName, InstMascot)