Problem 4:

For the ERD in Figure 1, you should indicate applications of the identifying relationship rule. For each identifying relationship rule application, you should indicate the changes to the tables you listed in problem 2



APPLICATIONS OF IDENTIFYING RELATIONSHIPS:

1. These relations are used to identify the tables which do not have any unique set of columns of itself to act as primary key of the table.
2. The primary key of the participating entity is also a column in this table.
3. The primary key of the participating table along with any column of this table together act as the primary key for this table. So there is no need of NOT NULL Constraint for the primary key.

SCHEMAS OF THE TABLES FOR THE ABOVE ENTITY FIGURE:

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

Lender( LenderNo, LenderName)

Institution( InstID, InstName, InstMascot)

Loan( LoanNo, StdNo NOT NULL, InstID NOT NULL, LenderNo NOT NULL, ProcDate, DisbMethod, DisbBank, DateAuth, NoteValue, Subsidized, Rate)

FOREIGN KEY(StdNo) REFERENCES(Student)

FOREIGN KEY(InstID) REFERENCES(Institution)

Foreign key(LenderNo) REFERENCES(Lender).

DisburseLine( DateSent,LoanNo, Amount, Origfee, GuarFee)

FOREIGN KEY(LoanNo) REFERENCES(Loan).