**Solutions for Problem 4**

The Identifying relationship rule (1 Application of this rule):

1. DisburseLine.LoanNo (PK)

The following tables remain unaltered:

***Institution*** (InstID, InstName, InstMascot, PRIMARY KEY(InstID))

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

PRIMARY KEY(StdNo))

***Lender***(LenderNo**,** LendName, PRIMARY KEY(LenderNo))

***Loan***(LoanNo**,** *InstID, StdNo, LenderNo,* ProcDate, DisbMethod, DisbBank,DateAuth, NoteValue, Subsidized,Rate,

PRIMARY KEY(LoanNo),

FOREIGN KEY(*InstID) REFERENCES* ***Institution****,*

FOREIGN KEY(*StdNo) REFERENCES* ***Student****,*

FOREIGN KEY(*LenderNo) REFERENCES* ***Lender****,*

*InstID NOT NULL,*

*StdNo NOT NULL,*

*LenderNo NOT NULL*)

Modification in the following table: Addition of PK

***DisburseLine*(**DateSent**,** *LoanNo***,** Amount, OrigFree, GuarFree,

PRIMARY KEY(DateSent, LoanNo)

FOREIGN KEY(*LoanNo*) REFERENCES ***Loan***)