**Module 10 Assignment Problem 4 Solution**

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

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

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

FOREIGN KEY (InstID) REFERENCES Institution (InstID)

FOREIGN KEY (StdNo) REFERENCES Student (StdNo)

FOREIGN KEY (LenderNo) REFERENCES Lender (LenderNo)

*InstID* **NOT NULL**

*StdNo* **NOT NULL**

*LenderNo* **NOT NULL**

)

Lender(**LenderNo**, LendName)

DisburseLine(**DateSent**, *LoanNo*, Amount, OrigFee, GuarFee

FOREIGN KEY (LoanNo) REFERENCES Loan (LoanNo)

)

\*BLUE INDICSTES PK\*

\*PURPLE INDICATES FK\*

**Conversion Rules**

* **Use the entity type rule to convert each entity type**
* **Use the 1-M relationship rule for all relationships in this case**
* **The M-N relationship rule is not applicable in this given case.**
* **Use the identification dependency rule to make** *LoanNo* **a part of the PK in the DisburseLine table. The PK in this table is a combination of** *LoanNo* and **DateSent. A NOT NULL constraint is not required here as the** *LoanNo* **column is part of the DisburseLine tables**