**Week-6(Assignment-1)**

1)Answer:

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

Table Name: Student

Primary Key: StdNo

Loan(LoanNo, ProcDate, DisbMethod, DisbBank, DateAuth, NoteValue, Subsidized, Rate)

Table Name: Loan

Primary Key: LoanNo

Institution(InstID, InstName, InstMascot)

Table Name: Institution

Primary Key: InstID

Lender(LenderNo, LendName)

Table Name: Lender

Primary Key: LenderNo

2)Answer:

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

a)FOREIGN KEY(StdNo) REFERENCES Student

b)FOREIGN KEY(LenderNo) REFERENCES Lender

c)FOREIGN KEY(InstID) REFERENCES Institution

d)StdNo NOT NULL

e)LenderNo NOT NULL

f)InstID NOT NULL

3)Answer:

There is no M-N relationship.

4) Answer:

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

FOREIGN KEY(LoanNo) REFERENCES Loan

LoanNo NOT NULL

I altered the weak entity DisburseLine into its own table. Its primary key is a combination of DateSent and LoanNo.

5)Answer:

The Table conversion uses the Entity Type Rule and the 1-M Rule.

Account(Acctid, AcctName, Balance, Decomposed)

Primary Key: Acctid

FOREIGN KEY(Decomposed) REFERENCES Account

6)Answer:

The Table conversion uses the Entity Type Rule and the M-N Rule.

Owner(OwnId, OwnName, OwnPhone)

Primary Key: OwnId

Property(PropId, BldgName, UnitNo, Bdrms)

Primary Key: PropId

Shares(PropId, OwnId, StartWeek, EndWeek)

Primary Key: PropId and OwnId

FOREIGN KEY(PropId) REFERENCES Property

FOREIGN KEY(OwnId) REFERENCES Owner