

95.0

Sara - Excellent job! Your schema includes all the entities and their attributes. You represent all the relationships and their MCs accurately and with little unnecessary redundancy. All your PKs are candidate keys and it appears as though you established referential integrity correctly. Almost all your relations are in 3NF. Specific comments and corrections are in the table below - be sure to ask about any that are not clear. After fixing the errors, your schema should work perfectly in the DBMS!

No	Comment/Correction	Points
1	Miles flown depend in the points of origin and arrival, thus FrequentFlier.ffMiles should be moved to Flight.	-0.5
2	The relationship between Flight and FrequentFlier is redundant.	-1.0
3	The relationship between Sale and Item is established by having a copy of iNo as a FK in Sale, thus having ppu in Sale is an unnecessary redundancy.	-0.5
4	Residence and Retailer are in 2NF because of there is a transitive functional dependency in each.	-3.0

Employer (eID, eName)

Position (jobNo, eID, title, occClass)
 Foreign key: eID references Employer.eID

EmpRec (emplID, jobNo, pID, sDate, eDate, salary)
 Foreign key: pID references Person.pID
 Foreign key: jobNo references Position.jobNo

Person (pID, ssn, fName, lName, sex, dob, mStatus)

Residence (resNo, occupant, resStreet, resCity, resState, resZip, resTel, resType, resOwn)
 Foreign key: occupant references Person.pID

BesBuyer (memNo, mem)
 Foreign key: mem references Person.pID

Sara Mooney
Assignment 3 (Normalization)
LIS 5872 Database Management
2010-04-05

Account (credNo, credName, credHolder)
Foreign key: credHolder references Person.pID

Retailer (retNo, retName, retStreet, retCity, retState, retZip)

Item (iNo, iName, units, ppu)

Sale (transNo, retNo, custID, sDate, iNo, quantity, ppu, credNo)
Foreign key: retNo references Retailer.retNo
Foreign key: custID references Person.pID
Foreign key: iNo references Item.iNo
Foreign key: ppu references Item.ppu
Foreign key: credNo references Account.credNo

Flight (flNo, flPass, flDate, flOrig, flDest)
Foreign key: flPass references Person.pID

Frequent Flier (ffNo, pID, flNo, ffMiles)
Foreign key: pID references Person.pID
Foreign key: flNo references Flight.flNo

DO NOT COPY

