LIS5782 Database Management Systems

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November 9, 2022

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**Project 1 & 2**

**Part 1**

Diagram

Description automatically generated

**Part 2**

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| **Entity** | **Description** |
| Person | personID,PTypeDesc,lastName,firstName,ssn,sex,maritalstatus,dateOfBirth,citizenship,residencePhone,BSTSFFNum |
| Address | addID,street,city,sate,zip |
| PlaceOfBirth | pobID,pobCity, pobState, pobCountry |
| School | schoID,schoName |
| Degree | degID,degName |
| Major | majID,majName |
| Employer | empID,empName |
| Job | jobID,jobTitle, jobStartDate,jobEndDate,salary |
| JobClassification | jobClassID, stanOccuClass |
| Retailer | retID,retName |
| Item | itemID,PurchaseDate,itemName,itemPPerUnit,itemUnit,unitsBought |
| CreditCard | ccID,ccName,ccNum |
| BestBuyerMembership | bestBuyerMemNum |
| Flight | flightID,flightDate,flightMiles |
| Airport | airportID,airportName,airportTypeDesc |

GeneralPeople: genPID,genPLName,genFName,genPSSN,genPDOB,genPMS,genPCitizeship,genPResiP

Employee: empID, empLName,empFName,empSSN, empDOB

Student: stuID,stuLName,stuFName,stuStartDate,stuFinishDate

Customer: custID,custLName,custFName

Passenger : pasID,PasLName,pasFName

**Project 2**

**Relation to 3NF:**

**Person**(personID,lastName,firstName,ssn,sex,maritalstatus,dateofBirth,citizenship,residencePh

one,BSTSFFNumber,pobID,addressID)

Foreign Key: pobID references PlaceofBirth.pobID

Foreign Key: addressID references Address.addressID

**PlaceofBirth** (pobID,pobCity,pobState,pobCountry)

**EmploymentHistory** (empHistoryID,jobID,personID,empID,jobStart,jobEnd,slalary)

Foreign Key: jobId references Job.jobID

Foreign Key: personID references Person.personID

Foreign Key: empID references Employer.empID

**Employer** (empID,empName)

**Job** (jobID,titile,jobClassID)

Foreign key: jobclassID references jobclassification.jobClasID

**JobClassification** (jobClassID,jobClass)

**FlyingRecord** (frID,flightID,personID)

Foreign Key: flightID references Flight.flightID

Foreign Key: personID references Person.personID

**Flight** (flightID,flightDate,flightMiles,originAirportID,destAirportID)

Foreign Key: originAirportID references Airport.airportID

Foreign Key: destAirportID references Airport.airportID

**Airport** (airportID,airportName)

**CreditCard** (ccID,cardName,cardNumber,personID)

Foreign Key: personID references person.personID

**Retailer** (retailerID,retailerName,addressID)

Foreign Key: addressID references Address.addressID

**Item** (itemID,itemName,unit)

**Transaction** (transID,ccID,retailerID,itemID,transationNumber,purchaseDate,pricePerunit,quantity)

Foreign Key: ccID references CreditCard.ccID

Foreign Key: retailerID references Retailer.retailerID

Foreign Key: itemID references Item.itemID

**BestBuyerMembership** (bestBuyerMemberNumber,personId)

Foreign Key: personID references Person.personID

**Address** (addressID,street,zip)

Foreign Key: zip references ZipCode.zip

**ZipCode** (zip,city,state)

**School** (schoolID,SchoolName)

**Major** (majorID,majorName)

**Degree** (degreeID,degreeName)

**Education** (eduID,schoolID,majorID,degreeID,startDate,endDate,grade)

Foreign Key: schoolID references School.schoolID

Foreign Key: majorID references Major.majorID

Foreign Key: degreeID references Degree.degreeID