The initial entities identified are as follows:

* **student-** studentId, studentName, phoneNumber, address, departmentName, departmentAddress, dateOfBirth, pointOfContactName, pointOfContactPhoneNumber, roomNumber, buildingNumber, term
* **room-** roomNumber, floorNumber, studentName, bedType, roomType, numberOfRooms, buildingName, buildingAddress
* **mealPlan-** planName, studentName, term, cost, item1, item2, item3, utilityName, utilityType
* **login-** studentId, staffId, timestamp
* **freeTransportation -** studentName, buildingName, buildingAddress
* **staff-** staffId, buildingName, buildingAddress, staffName, buildingName
* **visitor-** studentName, visitorName, visitorPhoneNumber, visitorInTime, visitorOutTime
* **department-** studentName, departmentName, departmentId, departmentAddress, studentAddress, studentPhoneNumber

**After 1NF**

* **student-** studentId, studentFirstName, studentLastName, phoneNumber, street, city, state, zip, departmentName, departmentStreet, departmentCity, departmentState, departmentZip, dateOfBirth, pointOfContactName, pointOfContactPhoneNumber, roomNumber, buildingNumber, term
* **room-** roomNumber, floorNumber, studentName, bedType, roomType, numberOfRooms, buildingName, buildingStreet, buildingCity, buildingState, buildingZip
* **foodPlan-** planName, studentName, term, cost, item, utilityName, utilityType, menu
* **login-** id, timestamp
* **freeTransportation-** studentName, buildingName, buildingStreet, buildingCity, buildingState, buildingZip
* **staff-** staffId, buildingName, buildingStreet, buildingCity, buildingState, buildingZip
* **visitor-** studentName, visitorFirstName, visitorLastName, visitorPhoneNumber, visitorInTime, visitorOutTime
* **department-** studentName, departmentName, departmentId, departmentStreet, departmentCity, departmentState, departmentZip, studentStreet, studentCity, studentState, studentZip, studentPhoneNumber

**No need to check for 2NF as I have just 1 column as my key**

**After 2NF**

* **studentUniversityInfo-** studentId, studentFirstName, studentLastName, phoneNumber, street, dateOfBirth, city, state, zip, departmentId, pointOfContactFirstName, pointOfContactLastName, pointOfContactPhoneNumber
* **studentDormInfo-** studentId, roomNumber, buildingNumber
* **department-** departmentId, departmentName, departmentStreet, departmentCity, departmentState, departmentZip
* **login-** id, timestamp
* **visitor-** studnentId, visitorFirstName, visitorLastName, isAdult, purposeOfVisit, visitorRelationship, dateOfMeeting, dateOfExit, inTime, outTime, buildingId
* **staff-** staffId, buildingNumber, staffFirstName, staffLastName, typeId
* **staffType-** typeId, typeName
* **utilites-** utilityId, utilityType, plan, cost, studentId
* **freeTransportation-** studentId, buildingId
* **mealPlan-** planId, studentId, term
* **foodOutlet-** outletId, outletName, staffId, cost, buildingId, menuId
* **menu-** menuId, itemId
* **item-** itemName, itemId
* **payment-** paymentId, studentId, paymentDate, monthlyFees, paymentStatus, fineImposed
* **building-** buildingNumber, numberOfRooms, buildingName, buildingStreet, buildingCity, buildingState, buildingZip
* **bed-** bedId, roomNumber
* **room-** roomNumber, capacity, studentId, bedId, type

**|**

**|**

Found transitive dependency of address so put that in a different table

* **studentUniversityInfo-** studentId, studentFirstName, studentLastName, phoneNumber, addressId, departmentId, pointOfContactFirstName, pointOfContactLastName, pointOfContactPhoneNumber
* **studentDormInfo-** studentId, roomNumber, buildingNumber
* **department-** departmentId, departmentName, addressId
* **login-** id, timestamp
* **visitor-** studnentId, visitorFirstName, visitorLastName, isAdult, purposeOfVisit, visitorRelationship, dateOfMeeting, dateOfExit, inTime, outTime, buildingId
* **staff-** staffId, buildingNumber, staffFirstName, staffLastName, typeId
* **staffType-** typeId, typeName
* **utilites-** utilityId, utilityType, plan, cost, studentId
* **freeTransportation-** studentId, buildingId
* **mealPlan-** planId, studentId, term
* **foodOutlet-** outletId, outletName, staffId, cost, buildingId, menuId
* **menu-** menuId, itemId
* **item-** itemName, itemId
* **payment-** paymentId, studentId, paymentDate, monthlyFees, paymentStatus, fineImposed
* **building-** buildingNumber, numberOfRooms, buildingName, addressId
* **bed-** bedId, roomNumber
* **room-** roomNumber, studentId, bedId, type
* **address-** addressId, aptNum, street, city,state, zip

After adding associative entities, the tables look like this

* **studentUniversityInfo-** studentId, studentFirstName, studentLastName, phoneNumber, addressId, departmentId, pointOfContactFirstName, pointOfContactLastName, pointOfContactPhoneNumber
* **studentDormInfo-** studentId, roomNumber, buildingNumber
* **department-** departmentId, departmentName, addressId
* **login-** id, timestamp
* **visitor-** studnentId, visitorFirstName, visitorLastName, isAdult, purposeOfVisit, visitorRelationship, dateOfMeeting, dateOfExit, inTime, outTime, buildingId
* **staff-** staffId, buildingNumber, staffFirstName, staffLastName, typeId
* **staffType-** typeId, typeName
* **utilites-** utilityId, utilityType, plan, cost, studentId
* **freeTransportation-** studentId, buildingId
* **mealPlan-** planId, studentId, term
* **foodOutlet-** outletId, outletName, staffId, cost, buildingId, menuId
* **foodOutlet\_has\_item-** foodOutlets\_outletId, item\_itemId
* **foodoutlet\_has\_staff-** staffInformation\_staffId, foodOutlets\_outletId
* **item-** itemName, itemId
* **payment-** paymentId, studentId, paymentDate, monthlyFees, paymentStatus, fineImposed
* **building-** buildingNumber, numberOfRooms, buildingName, addressId
* **bed-** bedId, roomNumber
* **room-** roomNumber, studentId, bedId, type
* **address-** addressId, aptNum, street, city, state, zip















