# Student Accommodation Service - Information System Database
## (sasDB)
## Data Normalization - Third Normal Form (3NF)

**StudentContact**

| NationalInsuranceNumber | stSTRecordID* | sstStudentTypeID* | EmailAddress | TelephoneNumber | laddLADDRecordID* | laddLocationAddressID* |
|---|---|---|---|---|---|---|

**StudentEmergencyContact**

| SECRecordID | SECID | secrtsSECRTSRecordID* | secrtsRTSID* | FirstName | MiddleName | LastName | laddLADDRecordID* | laddLocationAddressID* | sNationalInsuranceNumber* |
|---|---|---|---|---|---|---|---|---|---|

**UniversityContact**

| URecordID | UniversityID | Name | laddLADDRecordID* | laddLocationAddressID* |
|---|---|---|---|---|

**PropertyContact**

| PCRecordID | PropertyContactID | laddLADDRecordID* | laddLocationAddresID* |
|---|---|---|---|

**LandlordContact**

| NationalInsuranceNumber | ltLandlordTypeID* | ltLandlordTypeID* | EmailAddress | laddLADDRecordID* | laddLocationAddressID* |
|---|---|---|---|---|---|

**LocationAddress**

| LADDRecordID | LocationAddressID | LaneAddress | laLARecordID* | laLocationID* |
|---|---|---|---|---|

**SinglePropertyLandlord**

| SPLRecordID | SPLandlordID | lcNationalInsuranceNumber* | msMSRecordID* | msMembershipStatusID* | FirstName | MiddleName | LastName | csCSRecordID* | csEmployeeID_RegisteredBy* | RegistrationDateTime | slSLRecordID* | slSystemLoginID* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

**MultiplePropertyLandlord**

| MPLRecordID | MPLandlordID | lcNationalInsuranceNumber* | NoOfPropertiesOwned | NoOfPropertiesRented | NoOfPropertiesAvailable | msMSRecordID* | msMembershipStatusID* | FirstName | MiddleName | LastName | csCSRecordID* | csEmployeeID_RegisteredBy* | RegistrationDateTime | slSLRecordID* | slSystemLoginID* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**UndergraduateStudent**

| UGRecordID | UGStudentID | scNationalInsuranceNumber* | msMSRecordID* | msMembershipStatusID* | FirstName | MiddleName | LastName | sgSGRecordID* | sgGenderID* | DateOfBirth | uURecordID* | ucUniversityID_EnrolledTo* | EstimatedProgramCompletionDate | pPRecordID* | pPropertyID* | csCSRecordID* | csEmployeeID_RegisteredBy* | RegistrationDateTime | slSLRecordID* | slSystemLoginID* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**PostgraduateStudent**

| PGRecordID | PGStudentID | scNationalInsuranceNumber* | msMSRecordID* | msMembershipStatusID* | FirstName | MiddleName | LastName | sgSGRecordID* | sgGenderID* | DateOfBirth | uURecordID* | ucUniversityID_EnrolledTo* | EstimatedProgramCompletionDate | EmployerName | EmployerContactNumber | pPRecordID* | pPropertyID* | csCSRecordID* | csEmployeeID_RegisteredBy* | RegistrationDateTime | slSLRecordID* | slSystemLoginID* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Property**

| PRecordID | PropertyID | ptPTRecordID* | pptPropertyTypeID* | patPATRecordID* | ppatPropertyAreaTypeID* | raRentAmountID* | MaxNoTenants | NoOfBathrooms | NoOfBedrooms | NoOfParkingSlots | SizeInSquareFeet | BuiltDate | pcPCRecordID* | pcPropertyContactID* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**PropertyFlat**

| PFRecordID | PFPropertyID | pPRecordID* | pPropertyID* | pffnPFFNRecordID* | pflFloorNumberID* | psPSRecordID* | psStatusID* |
|---|---|---|---|---|---|---|---|

**PropertyTerracedHouse**

| PTHRecordID | PTHPropertyID | pPRecordID* | pPropertyID* | pthtPTHTRecordID* | pthTypeID* | psPSRecordID* | psStatusID* | NoOfFloors |
|---|---|---|---|---|---|---|---|---|

**PropertyDetachedHouse**

| PDHRecordID | PDHPropertyID | pPRecordID* | pPropertyID* | psPSRecordID* | psStatusID* | NoOfFloors |
|---|---|---|---|---|---|---|

**RegisterProperty**

| csCSRecordID* | csEmployeeID_RegisteredBy* | lNationalInsuranceNumber* | pPRecordID* | pPropertyID* | RRecordID | RegistrationID | rprfsRPRFSRecordID* | rprfsRegistrationFeeStatusID* |
|---|---|---|---|---|---|---|---|---|

**RegisteredProperty**

| RDPRecordID | RegistrateredPropertyID | rpRRecordID* | rpRegistrationID* | RegistrationFee | RegistrationDateTime |
|---|---|---|---|---|---|

**Legend**

| | |
|---|---|
| **CustomerService** | Entity (Relation Name) |
| EmailAddress | Attribute (Relation Column Name) |
| → | Link (Connection) |
| NationalInsuranceNumber | Primary Key |
| CSRecordID   EmployeeID | Composite Key |
| sNationalInsuranceNumber* | Foreign Key |