## **Entity-Relationship Diagram Assumptions:**

- Each Lease can receive multiple Invoices over the course of its duration
- Multiple payments can be made for each Invoice
- Each Student can have multiple Next-of-Kin
- Advisor of Studies is not part of the University Accommodation Office Staff
- Each Advisor of Studies can advise multiple students
- Each Student has a single Advisor of Studies
- Each Student can sign multiple Leases over the course of their time at the university
- Each Course can contain multiple Students
- Each Room can have multiple Leases refer to it
- Each Accommodation option contains one or more Rooms
- Room number, place number, and rent have similar format across Flat rooms and Residence Hall rooms
- There are no Accommodation options other than Flats and Residence Halls
- Multiple Inspections can be performed on each Flat
- Each Hall Manager staff member can manage more than one Hall
- Each member of Office Staff can conduct multiple Inspections
- On each Lease, the date the Student wishes to enter/leave is not necessarily
  the same as the Lease start/end date, so it is not redundant to list that along
  with the lease duration
- People in the same Position can work in different Locations (so Location is not functionally dependent on Position)
- Courses can have the same name and still be in different Departments (e.g. "Research Methods")
- Identical Positions can exist in multiple advising departments (e.g. "career counselor"), so Department is not functionally dependent on Position
- A rentRate field is included in Lease, even though rentRate is already in the FlatRoom and HallRoom entities. While a JOIN can be used to determine current rentRate, storing rentRate in the Lease lets us determine rentRate at the time of a Student's specific Lease, in case Lease rentRate changes

## **PART 2: RELATIONAL MODEL**

ImatriculationNo {PK}	Student	Loggo
FK advisorNo REFERENCES AdvisorOfStudies (advisorNo)   (advisorNo)   FK courseNo REFERENCES course (courseNo)   firstName, lastName, streetAddress, cityAddress, postcodeAddress, dateOfBirth, sex, studentCategory, nationality, smoker, specialNeeds, additionalComments, currentStatus  AdvisorOfStudies		Lease
FK hallPlaceNo REFERENCES HallRoom(placeNo)   FK courseNo REFERENCES course (courseNo)   FK stuMatriculationNo REFERENCES   Student(matriculationNo REFERENCES   Student(matriculationNo)   FK stuMatriculationNo REFERENCES   Student(matriculationNo)   FK stuMatriculationNo   FERENCES   Student(matriculationNo   FK stuMatriculationNo   FK stuMatriculationNo   FERENCES   Student(matriculationNo   Studens   Student(matriculationNo   Studens   Stude		
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Flat   Course   flatNo {PK}   courseNo {PK}   streetAddress, cityAddress, postcodeAddress, roomsAvailable   courseTitle, courseYear, courseLeader, telNo, roomNo, deptName   FlatRoom   NextOfKin   placeNo {PK}   kinNo {PK}   FK flatNo REFERENCES Flat(FlatNo)   FK studentNo REFERENCES Student(matriculationNo) roomNo, rentRate   firstName, lastName, relationship, streetAddress, cityAddress, postcodeAddress, telNo   Invoice   invoiceNo {PK}   FK leaseNo REFERENCES Lease(leaseNo),	FK hallNo REFERENCES HallOfResidence(hallNo)	firstName, lastName, streetAddress, cityAddress,
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