

For 1NF I removed some properties that repeated the same data, like the enrollmentDate, as it was the same as the termStart.

I removed the Term table and I put termStart and termEnd in the CourseOffering table.

I also removed some IDs like the programCourseID, as a composite key could be made using the courseID and programID as partial keys instead.

For 2NF I didn't need to make any changes.

For 3NF I didn't need to make any changes.

[Google Sheet link](#)

Messy version of the table copied from the google sheet

		tags like —»removed—»	are to signal			
		that the property to the left was altered while moving to the right				
0NF		1NF	2NF	3NF		
Student		Student	Student	Student		
studentID(PK)		studentID(PK)	studentID(PK)	studentID(PK)		
programID(FK)		programID(FK)	programID(FK)	programID(FK)		
studentNumber	—»removed —»	firstName	firstName	firstName		
firstName		lastName	lastName	lastName		
lastName		emailAddress	emailAddress	emailAddress		
emailAddress		dateOfBirth	dateOfBirth	dateOfBirth		
dateOfBirth		dateEnrolled	dateEnrolled	dateEnrolled		
dateEnrolled						
status	—»removed —»	Program	Program	Program		
		programID(PK)	programID(PK)	programID(PK)		
Program		programName	programName	programName		
programID(PK)		credentialType	credentialType	credentialType		

programCode	—>removed —»	durationInTerms		durationInTerm s		durationInTerm s
programName		isAvailable		isAvailable		isAvailable
credentialType						
durationInTerms		ProgramCourse		ProgramCourse		ProgramCourse
isAvailable		programID(FK)(PK)		programID(FK)(PK)		programID(FK)(PK)
		courseID(FK)(PK)		courseID(FK)(PK)		courseID(FK)(PK)
ProgramCourse		isRequired		isRequired		isRequired
programCourseID(PK)	—>removed —»					
programID(FK)		Course		Course		Course
courseID(FK)		courseID(PK)		courseID(PK)		courseID(PK)
isRequired		courseTitle		courseTitle		courseTitle
reccomendedTermNumber	—>removed —»	courseDescription		courseDescription		courseDescription
		creditHours		creditHours		creditHours
Course						
courseID(PK)		CourseOffering		CourseOffering		CourseOffering
courseCode	—>removed —»	offeringID(PK)		offeringID(PK)		offeringID(PK)
courseTitle		courseID(FK)		courseID(FK)		courseID(FK)
courseDescription		instructorID(FK)		instructorID(FK)		instructorID(FK)
creditHours		termStart		termStart		termStart
		termEnd		termEnd		termEnd
CourseOffering		acedemicYear		acedemicYear		acedemicYear
offeringID(PK)		scheduleInfo		scheduleInfo		scheduleInfo
courseID(FK)		selectionCode		selectionCode		selectionCode
termID(FK)		deliveryMode		deliveryMode		deliveryMode
scheduleInfo		maxCapacity		maxCapacity		maxCapacity
selectionCode		roomLocation		roomLocation		roomLocation
deliveryMode						

maxCapacity		CourseEnrollment		CourseEnrollment		CourseEnrollment
roomLocation		studentID(FK)(PK)		studentID(FK)(PK)		studentID(FK)(PK)
		offeringID(FK)(PK)		offeringID(FK)(PK)		offeringID(FK)(PK)
Term	—»removed —»	enrollmentStatus		enrollmentStatus		enrollmentStatus
termID(PK)	—»removed —»	finalGrade		finalGrade		finalGrade
termName	—»removed —»					
startDate	—»moved— »	InstructorAssignment		InstructorAssignment		InstructorAssignment
endDate	—»moved— »	instructorID(FK)(PK)		instructorID(FK)(PK)		instructorID(FK)(PK)
academicYear	—»moved— »	offeringID(FK)(PK)		offeringID(FK)(PK)		offeringID(FK)(PK)
CourseEnrollment		Instructor		Instructor		Instructor
enrollmentID(PK)	—»removed —»	InstructorID(PK)		InstructorID(PK)		InstructorID(PK)
studentID(FK)		firstName		firstName		firstName
offeringID(FK)		lastName		lastName		lastName
enrollmentStatus		emailAddress		emailAddress		emailAddress
finalGrade		hireDate		hireDate		hireDate
enrollmentDate	—»removed —»	officeLocation		officeLocation		officeLocation
InstructorAssignment						
assignmentID(PK)	—»removed —»					
instructorID(FK)						
offeringID(FK)						
role	—»removed —»					
Instructor						

InstructorID(PK)							
firstName							
lastName							
emailAddress							
hireDate							
officeLocation							