NORMALIZATION

	DepartmentID	d1		CourseID	o1
Domontos	DepartmentName	d2	Course	CourseName	02
Department	Head	d3		noOfCredits	03
	SchoolID	s1		courseType	04
	SchoolID	s1		noOfSections	05
School	SchoolName	s2		ProgramID	r1
	Dean	s2 s3		SemesterID	b1
	ProgramID	r1	Semester	semesterID	b2
Program	ProgramName	r2			b3
		d1		year CourseID	03
	DepartmentID Faculty ID	f1		PLOID	
	FacultyID	f2	PLO		p1
	first_name	f3		PLONo	p2
	last_name			details	p3
	gender	f4		ProgramID	r1
	dateOfBirth	f5	Enrollment	EnrollmentID	e1
Faculty	email	f6		SemesterID	b1
·	address	f8		SectionID	q1
	phone	f7		StudentID	t1
	DepartmentID	d1	co	COID	c1
	StudentID	t1		CONo	c2
Student	first_name	t2		details	c3
	last_name	t3		CourseID	o1
	gender	t4		PLOID	p1
	dateOfBirth	t5	Transcript	TranscriptID	u1
	email	t6		grade	u2
	address	t8		gpa	u3
	phone	t7		courseName	u4
	CGPA	t9		StudentID	t1
	DepartmentID	d1		SectionID	q1
	ProgramID	r1		SemesterID	b1
	AssesmentID	a1	- Evaluation	EvaluationID	v1
Assessment	marksObtained	a2		marksObtained	v3
1200 000 2110 110	COID	c1		evaluationNo	v2
	SectionID	q1		AssesmentNo	a1
Section	SectionID	q1		EnrollmentID	e1
	sectionNo	q2			
	semester	q3	_		
	noOfStudents	q4			
	FacultyID CourseID	f1 o1	_		
	GradeID		-		
Course Grade	courseName	g1 g2	\dashv		
	marksObtained	g2 g3	\dashv		
	course_gradePoint	g4	-		
	course_grade	g5			
	COID	c1			
	StudentID	t1			
	FacultyID	f1			
	SemesterID	b1			

DepartmentID→	DepartmentName, Head, SchoolID
SchoolID→	SchoolName, Dean
ProgramID→	programName, DepartmentID
FacultyID→	first_name, last_name, gender, dateOfBirth, email, phone, address, DepartmentID
StudentID→	first_name, last_name, dateOfBirth, gender, email, phone, address, CGPA, DepartmentID, ProgramID, SchoolID
CourseID→	courseName, noOfCredits, courseType, noOfSections, ProgramID
SemesterID→	semesterName, year, CourseID
PLOID→	PLONo, details, ProgramID
COID→	CONo, details, CourseID, PLOID
SectionID→	sectionNo, semester, CourseID, FacultyID
TranscriptID	GradeID, gpa, courseName, StudentID, SectionID, SemesterID
GradeID	courseName, COID, marksObtained, course_grade, course_gradePoint, SectionID, FacultyID, StudentID, SemesterID
EnrollmentID→	SemesterID, SectionID, StudentID
assessmentNo→	marksObtained, ocID, SectionID
EvaluationID→	evaluationNo, obtainedMarks, assesmentNo, EnrollmentID

d1 →	d2, d3, s1
s1 →	s2, s3
r1→	r2, d1
f1→	f2, f3, f4, f5, f6, f7, f8, d1
t1 →	t2, t3, t4, t5, t6, t7, t8, t9 d1, r1, s1
01→	o2, o3, o4, o5, r1
b1 →	b2, b3, o1
p1 →	p2, p3, r1
c1 →	c2, c3, o1, p1
q1 →	q2, q3, q4, f1, o1
e1 →	b1, q1, t1
u1→	u2, u3, u4, b1, q1, t1
a1 →	a2, c1, q1
v1 →	v2, v3, a1, e1
g1 →	g2, g3, g4, g5, c1, t1, b1, f1

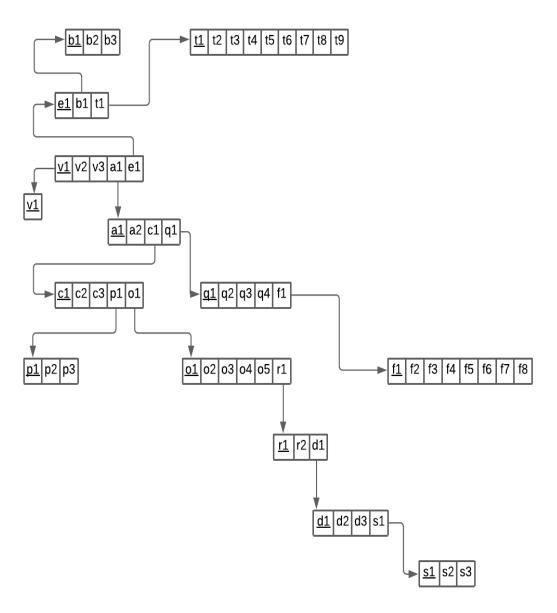
1NF

2NF

-d1 d2 d3 s1 s2 s3 r1 r2 f1 f2 f3 f4 f5 f6 f7 f8 t1 t2 t3 t4 t5 t6 t7 f8 t1 t2 t3 t4 t5 t6 t7 f8 t1 t2 t3 t4 t5 t6 t7 t8 t9 o1 o2 o3 o4 o5 b1 b2 b3 p1 p2 p3 c1 c2 c3 q1 q2 q3 q4 e1 u1 u2 u3 u4 a1 a2 g1 g2 g3 g4 g5 v2 v3

→V1

3NF



BCNF

No non-key can identify any primary key or part of the primary key. Therefore, all the relations are in BCNF.