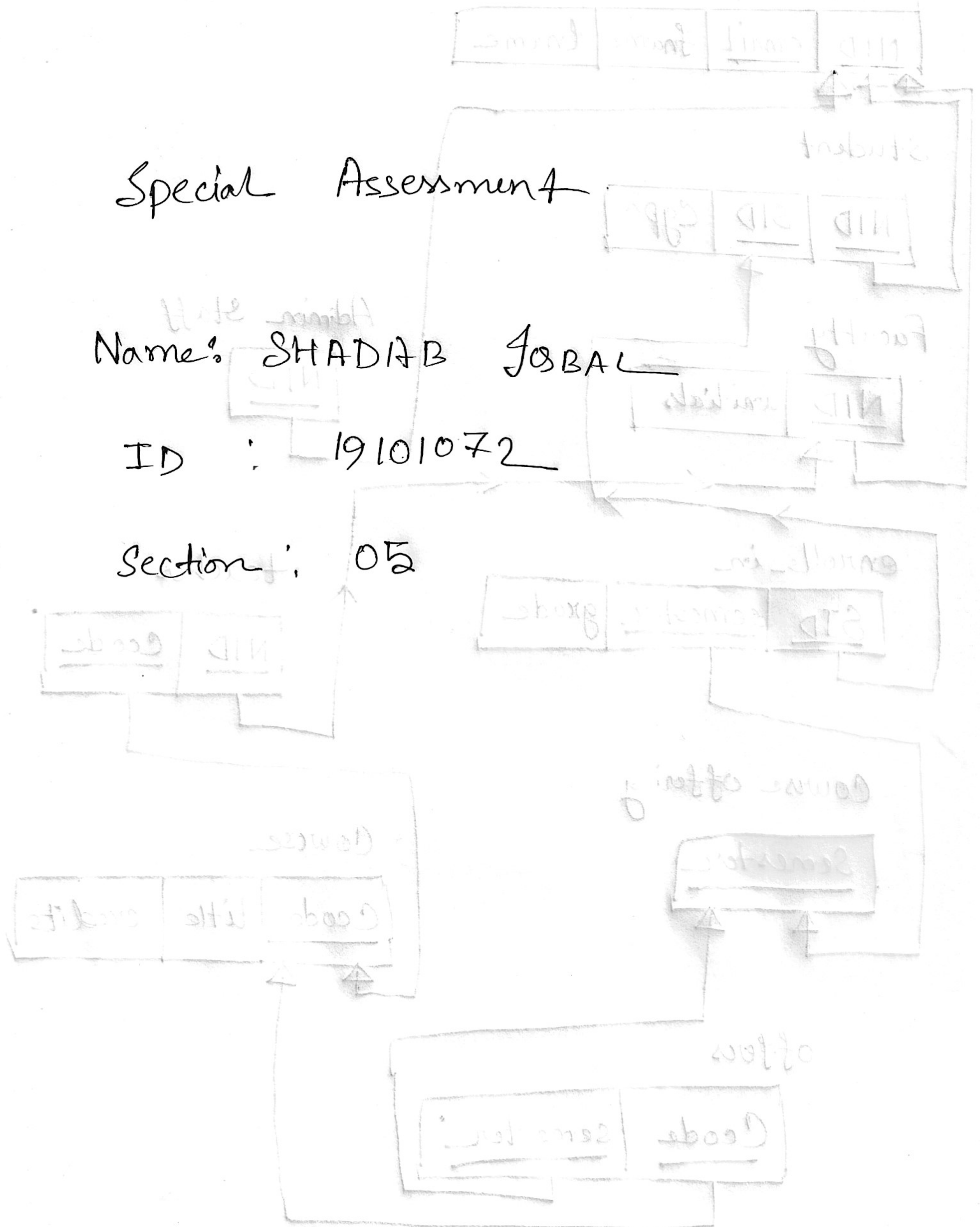Special Assessment
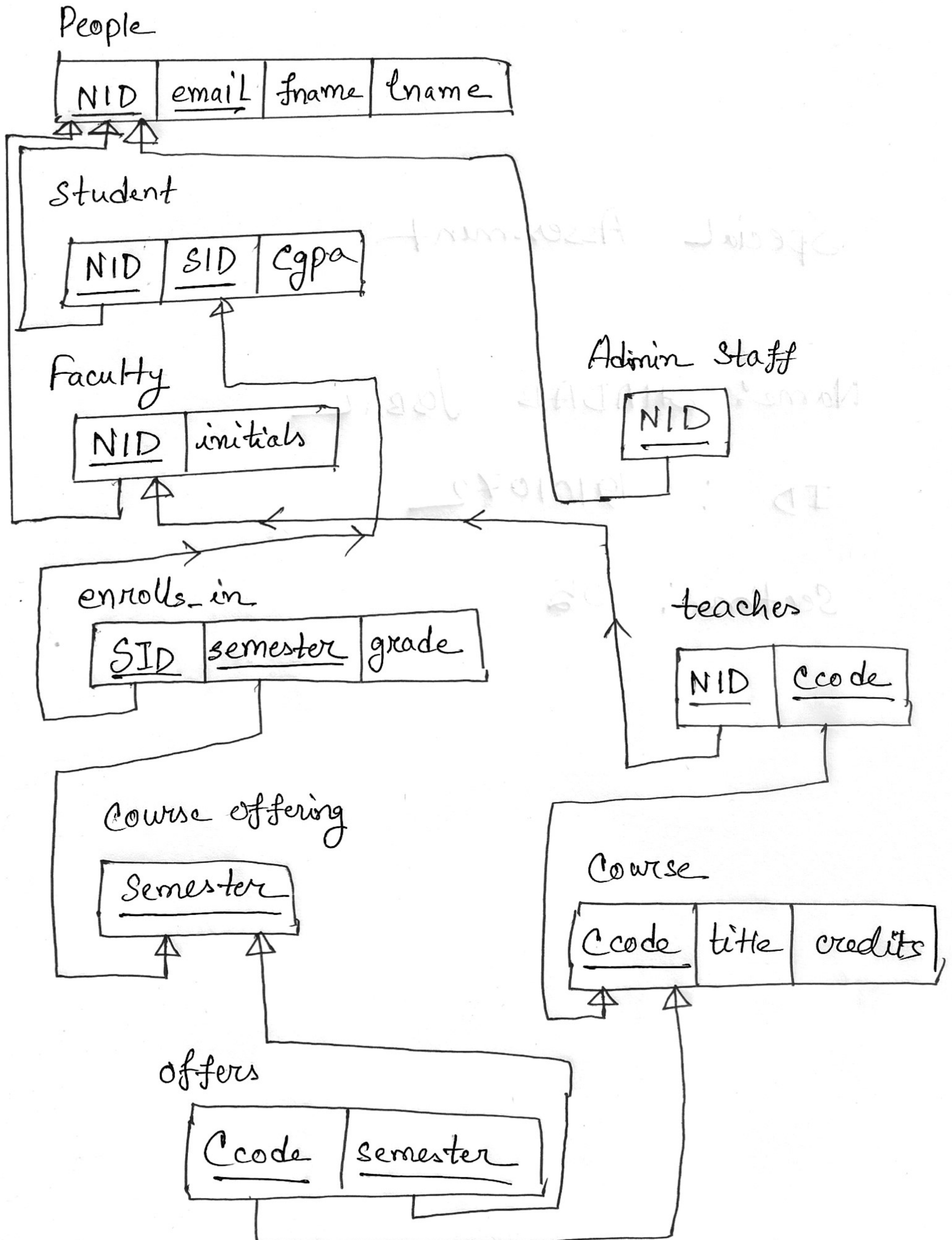
Name: SHADIAB IQBAL

ID : 19101072
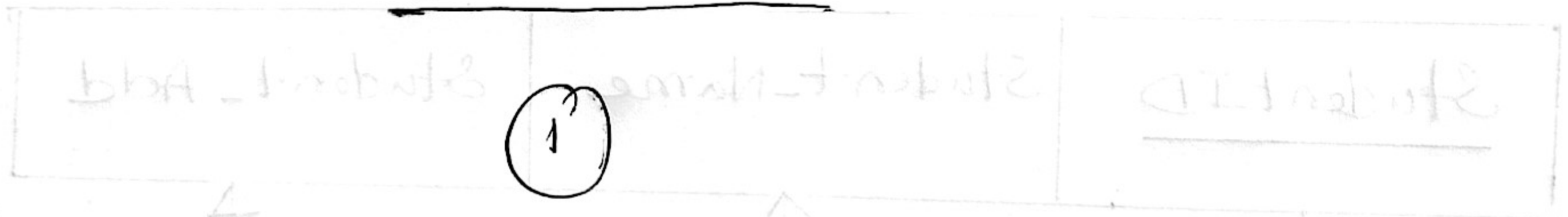
Section : 05
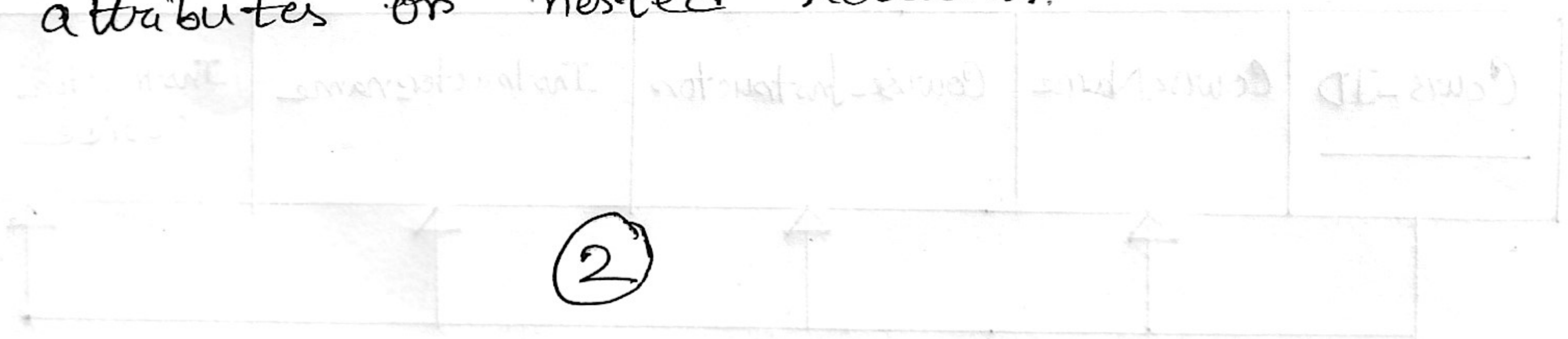
Mapping to Relational Schema

People

NID	email	fname	lname

Student

NID	SID	Cgpa

Faculty

NID	initials

Admin Staff

NID

enrolls_in

SID	semester	grade

teaches

NID	Ccode

Course offering

Semester

Course

Ccode	title	credits

offers

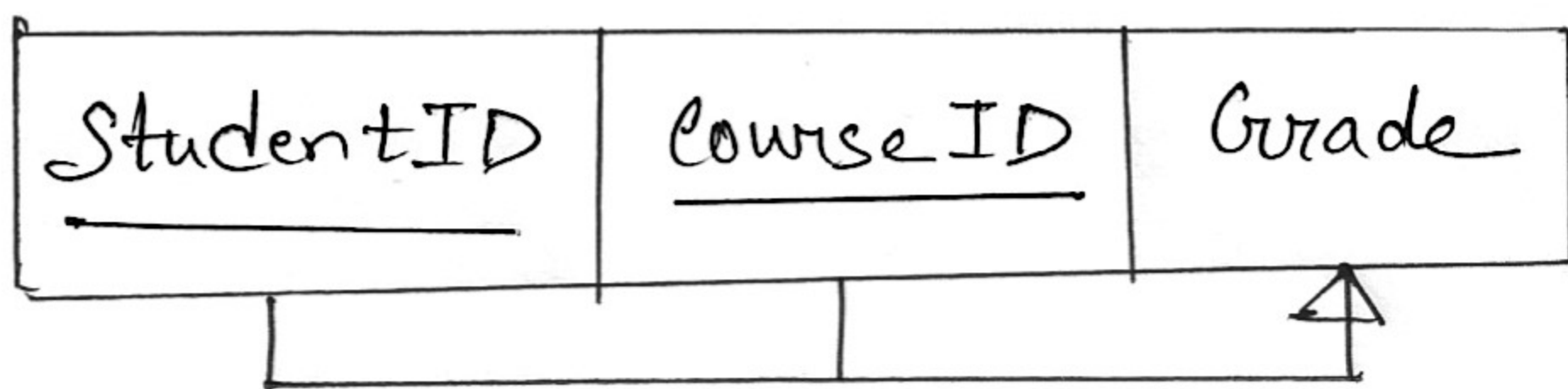| Ccode	semester

Normalization

The schema is in 1NF. Because there are no composite attributes, multivalued attributes or nested relations.
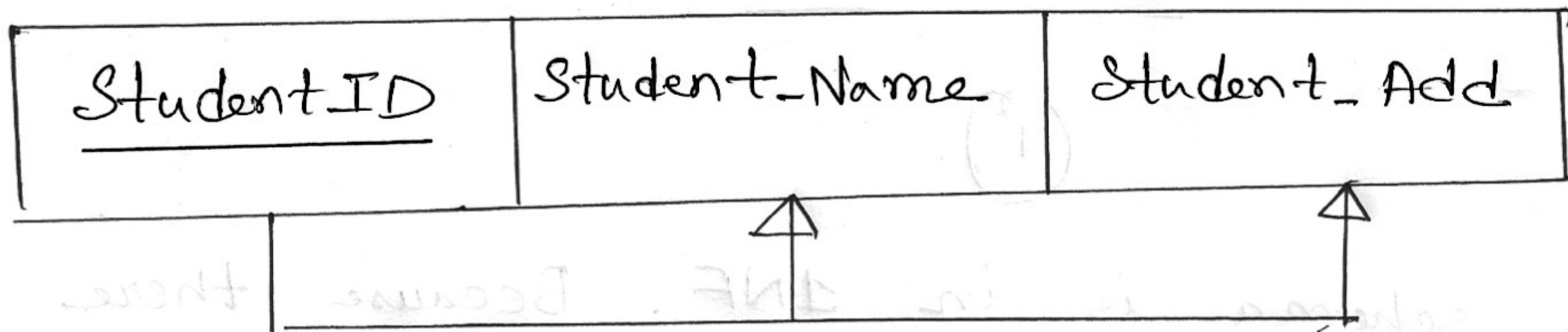

It is not in 2NF because FD2 and FD3 have partial dependency. The non-prime attributes of FD2 and FD3 are not fully dependent on the primary key.
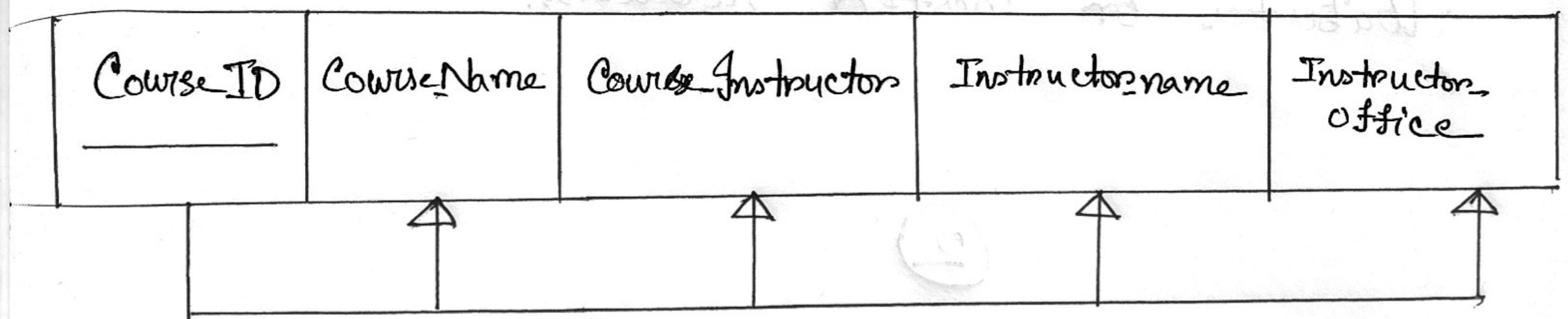
2NF Normalization:

R1

StudentID	CourseID	Grade

R2

Student ID	Student_Name	Student_Add

R8

Course ID	Course Name	Course_Instructor	Instructor name	Instructor office

(3)

It is already in 3NF. The reason is we don't see any kind of transitive dependency after normalizing into 2NF. So, we can conclude it's in 3NF as well.