STUDENT PERFORMANCE MONITORING SYSTEM

SPMS 4.0

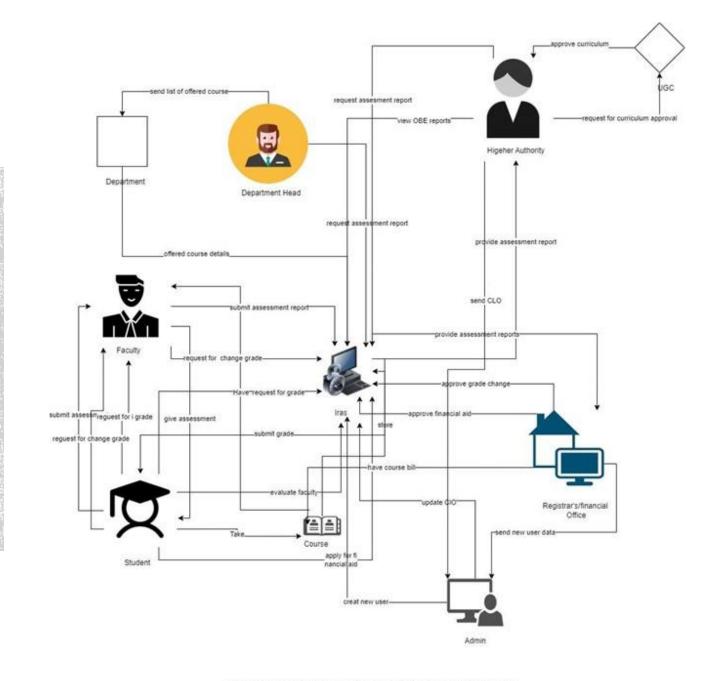Md. Yakub Hossain

Student ID : 1830968

OBJECTIVE

User-friendly monitoring system

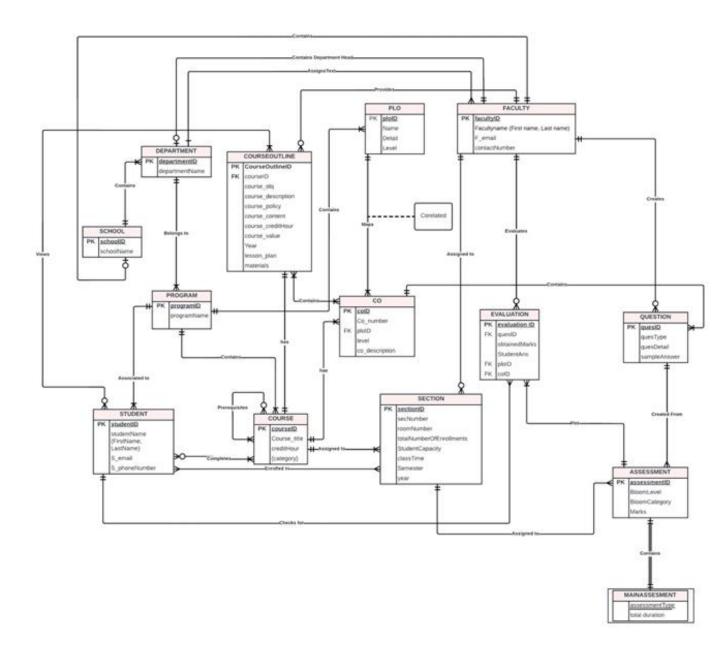Allowing institutional bodies and students to track progress more productively
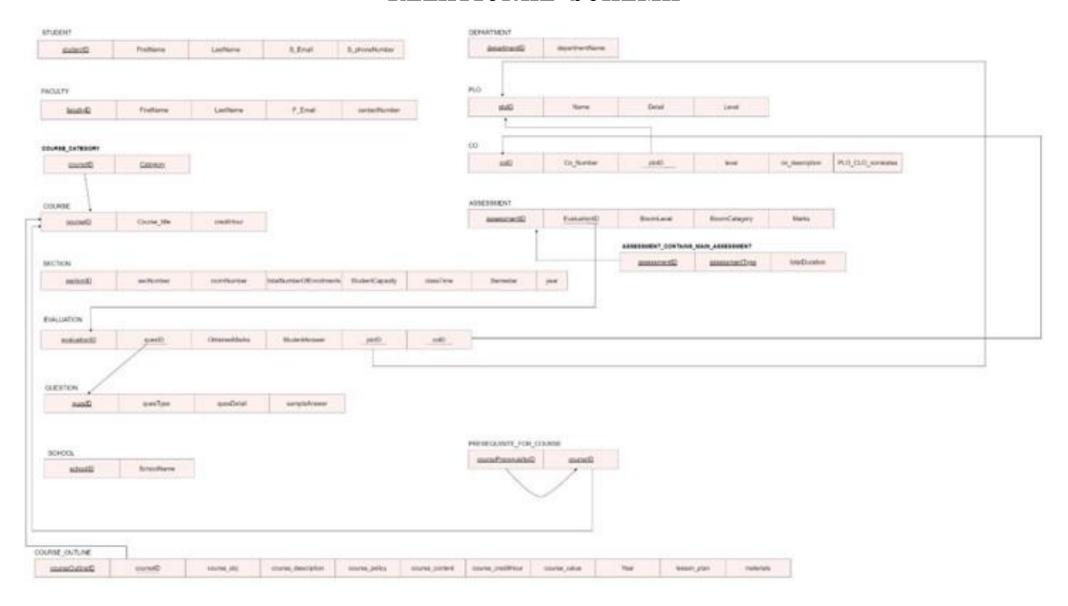
Visualizing progress of courses more effectively

RICH PICTURE

Rich Picture to proposed system to Student Management

RELATIONAL SCHEMA

NORMALIZATION INDEXING

t1→	t2, t3, t4, t5
d1→	d2
f1→	f2, f3, f4, f5
p1→	p2, p3, p4
c1→	c2, p1, c3, c4, c5
o1→	o2, o3, v1, u1, w1
a1→	e1, a2, a3, a4, r1, r2
b1→	b2, b3, b4, b5, b6, b7, b8
e1→	q1, e2, e3, p1, c1
q1→	q2, q3, q4
s1→	s2
w1→	w2, w3, w4, w5, w6, w7, w8, w9, w10

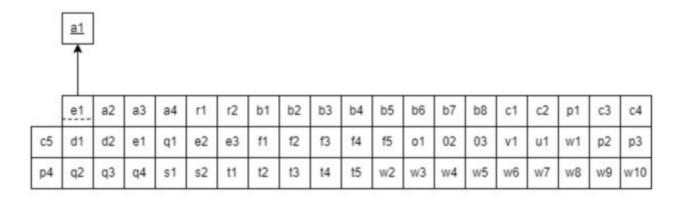|	
studentID→	FirstName, LastName, S_email, S_phoneNumber
departmentID→	departmentName
facultyID→	FirstName, LastName, F_email, contactNumber
coID→	Co_Number, ploID, level, co_description, PLO_CLO correlates
courseID→	Course_Title, creditHour, Category, coursePrerequisiteID, courseOutlineID
assesmentID→	evaluationID, BloomLevel, BloomCategory, Marks, assesmentType, totalDuration
sectionID→	secNumber, roomNumber, totalNumberofEnrollments, StudentCapacity, classTime, Semester, year
evaluationID→	quesID, ObtainedMarks, StudentAnswers, ploID, coID
quesID→	quesType, quesDetail, sampleAnswer
schoolID→	SchoolName
courseOutlineID→	course_obj, course_description, course_policy, course_content, course_creditHour, course_value, Year, lesson_plan, materials

NORMALIZATION

1nF

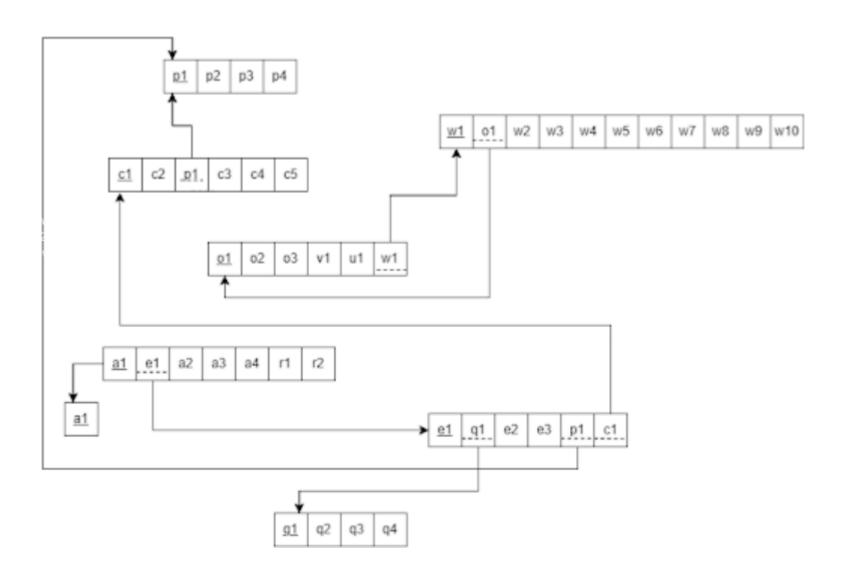| a1	e1	a2	a3	a4	r1	r2	b1	b2	b3	b4	b5	b6	b7	b8	c1	c2	p1	c3	c4
c5	d1	d2	e1	q1	e2	e3	f1	f2	f3	f4	f5	o1	02	03	v1	u1	w1	p2	p3
p4	q2	q3	q4	s1	s2	t1	t2	t3	t4	t5	w2	w3	w4	w5	w6	w7	w8	w9	w10

2nF

a1

e1	a2	a3	a4	r1	r2	b1	b2	b3	b4	b5	b6	b7	b8	c1	c2	p1	c3	c4
c5	d1	d2	e1	q1	e2	e3	f1	f2	f3	f4	f5	o1	02	03	v1	u1	w1	p2	p3
p4	q2	q3	q4	s1	s2	t1	t2	t3	t4	t5	w2	w3	w4	w5	w6	w7	w8	w9	w10

NORMALIZATION 3NF

p1	p2	p3	p4

w1	o1	w2	w3	w4	w5	w6	w7	w8	w9	w10

c1	c2	p1.	c3	c4	c5

o1	o2	o3	v1	u1	w1

a1	e1	a2	a3	a4	r1	r2

a1

e1	q1	e2	e3	p1	c1

q1	q2	q3	q4

BCNF

- In this stage of our normalization, no non-key attribute can identify any primary key or part of the primary key. So, we can say that all relations are already in BCNF.