AUM SRI SAI RAM

Examination Management System

PROBLEM STATEMENT:

0. Examination management system has tasks of maintaining records and modules of students, faculties, courses, examinations, institutes, results etc.
1. The examinations are divided according to departments. Each department has a unique name (dept name), according to the institute.
2. Each department has a list of courses it offers. Each course has associated with a course id, title, dept name, credits managed by **department HOD**
3. Each course has a set of papers with each paper having a unique name and id managed by **teachers**.
4. Exams have a set of rules and regulations. Which has categorised into internal and external.
5. Internal exams have some type of structure and pattern and marks.
6. External exams have some type of structure, pattern and marks.
7. Each student who writes the exam is identified with a unique institute id, name, department, and total credit hours the student earned thus far maintained by **campus** and **institute**.
8. Examinations are kept at specific time, schedule, room, according to department, course id, date, semester id, day managed by **controller of examinations**.
9. Institute maintains records of student's academic marks based on year, department, course, year, semester, id, name maintained by **institute office.**
10. Allocation of teachers to exams according to their ids, name, department, time, day, date managed by **examination officer**.
11. Examination management system follows computing overall grade by taking 30% of internals and 70% of externals and overall grade given by credits and some process.
12. Student claims has the option of retotalling to students by taking their ids, paper id, course name, year, semester.
13. Absentee details have records of supplementary exams attended by students with student id, course id, paper id, year, institute id, semester no, status of their attendance managed by **examination officer**.

Attributes for departments:
Dept name, id,
Attributes for courses:
Course name, id
Attributes for papers:
Paper name, id, semester, syllabus
Attributes for students:
Name, id, year, semester, course, department, institute id, class
Attributes for Faculty:
Faculty name, id, department, course, paper
Attributes for institute:
Institute id, name, address, courses, departments

ENTITIES:

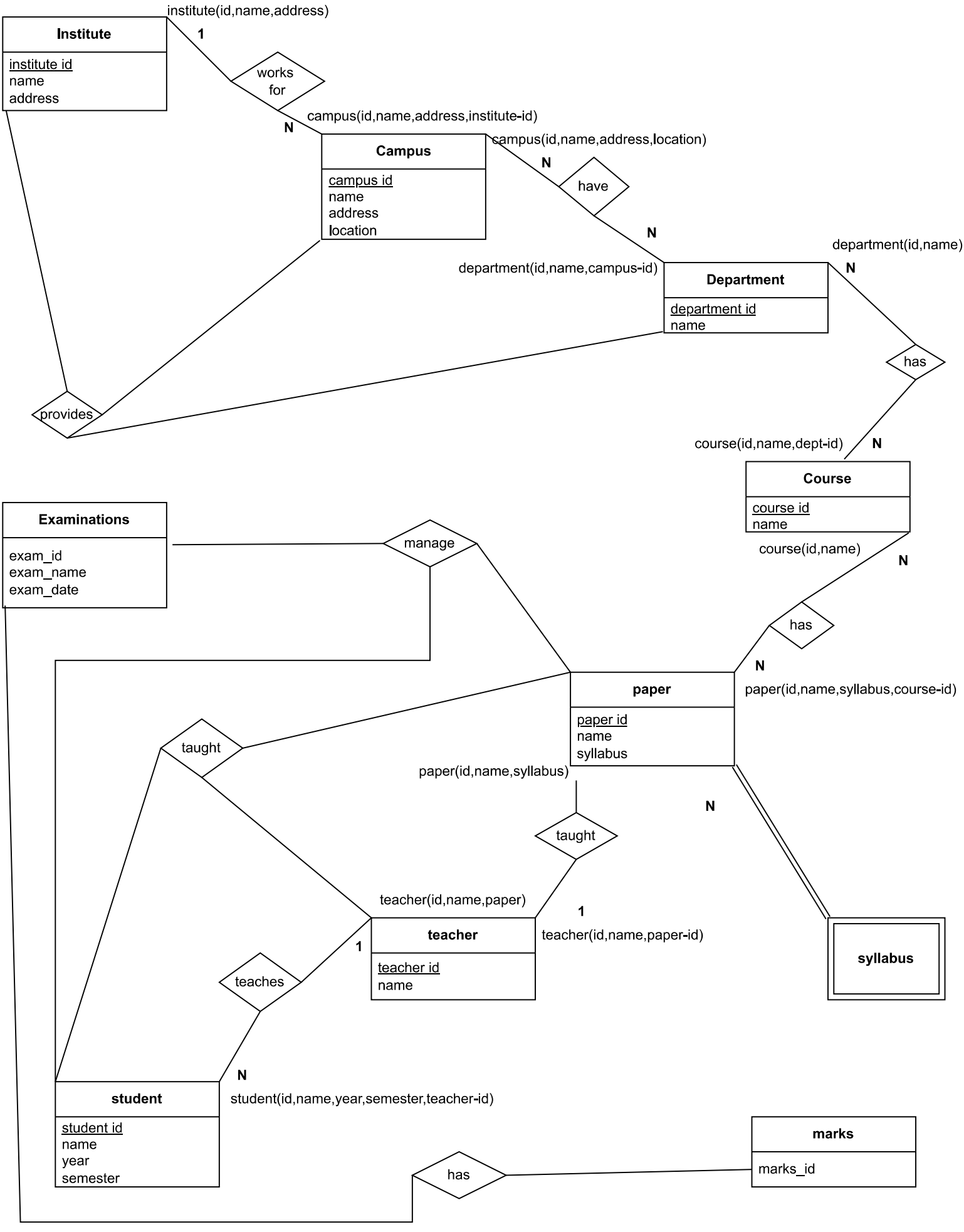
Person: student, teacher
Place: campus, class, institute
Object: student academic records
Event: examination, result, retotalling
Concept: grading process, course, department, papers, absentee record

Entity type	**attributes**	**TYPE**
student	student-Name	Simple (strong)
	student-id	Single
	student-year	Simple
	semester	Simple
teacher	teacher-Name	Simple
	teacher-Id	single
department	department-Name	Simple
	department-id	single
course	course-Name	Simple
	course-Id	Single
institute	institute-Id	single
	institute-Name	Simple
	institute-Address	Simple
paper	paper-Name	Simple
	paper-Id	single
	paper-syllabus	Simple
campus	campus-Id	single
	campus-Name	Simple
	campus-Address	Complex
	campus-Location	simple
examination	exam-id	
	exam-date	

	exam-name	
marks	mark-id	

RELATIONSHIP FOR MY ENTITIES:

Person: student, teacher
Place: campus, class
Object: student academic records,institute
Event: examination, result, retotalling
Concept: grading process, course, department, papers, absentee record


institute(id,name,address)
Institute
institute id
name
address
1
works for
N
campus(id,name,address,institute-id)
Campus
campus id
name
address
location
campus(id,name,address,location)
N
have
N
department(id,name)
department(id,name,campus-id)
Department
department id
name
N
has
provides
course(id,name,dept-id)
N
Course
course id
name
Examinations
exam_id
exam_name
exam_date
manage
course(id,name)
N
has
N
paper
paper id
name
syllabus
paper(id,name,syllabus,course-id)
taught
paper(id,name,syllabus)
N
taught
teacher(id,name,paper)
1
teacher
teacher id
name
teacher(id,name,paper-id)
1
teaches
syllabus
N
student
student id
name
year
semester
student(id,name,year,semester,teacher-id)
has
marks
marks_id