Grading Automation System

ER Diagram:
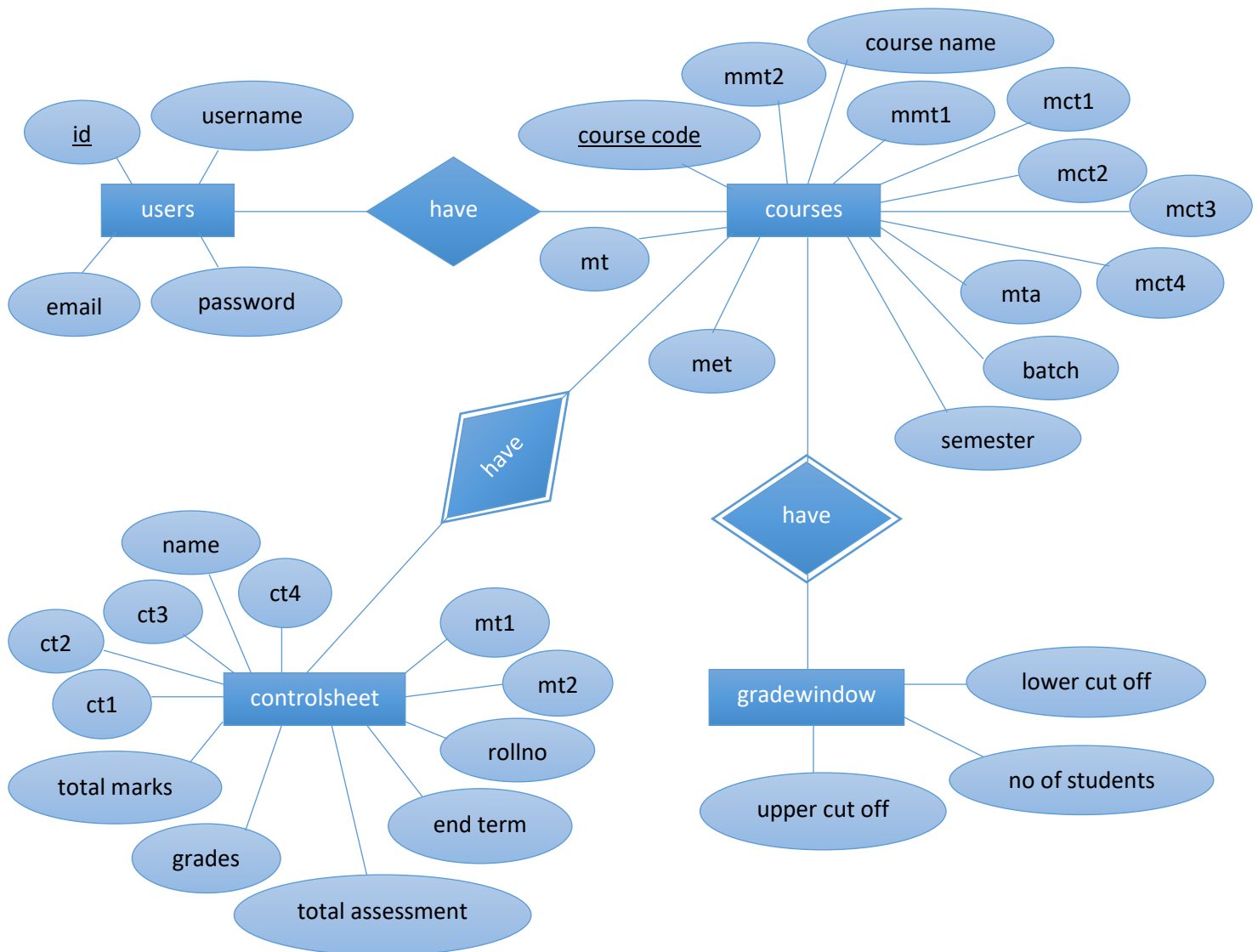
Database Schema:

users		
Attribute	**Type**	**Remark**
id	INT	Auto Increment, Primary Key
username	VARCHAR(25)	Not Null
email	VARCHAR(30)	Not Null
Password	VARCHAR(20)	Not Null

courses

Attribute	Type	Remark
id	INT	Foreign Key, Not Null
course_name	VARCHAR(50)	Not Null
course_code	VARCHAR(20)	Primary Key, Not Null
batch	VARCHAR(20)	Not Null
semester	VARCHAR(20)	Not Null
mct1	INT	Not Null
mct2	INT	Not Null
mct3	INT	Not Null
mct4	INT	Not Null
mmt1	INT	Not Null
mmt2	INT	Not Null
mta	INT	Not Null
met	INT	Not Null
mt	INT	Not Null

controlsheet

Attribute	Type	Remark
course_code	VARCHAR(20)	Foreign Key, Not Null
roll_no	VARCHAR(20)	Not Null
name	VARCHAR(20)	Not Null
class_test_1	INT	Not Null
class_test_2	INT	Not Null
class_test_3	INT	Not Null
class_test_4	INT	Not Null
mid_term_1	INT	Not Null
mid_term_2	INT	Not Null
total_assessment	INT	Not Null
end_term	INT	Not Null
total_marks	INT	Not Null
grade	VARCHAR(5)	Nullable

Primary Key: (course_code,roll_no)

gradewindow

Attribute	Type	Remark
course_code	VARCHAR(20)	Foreign Key, Not Null
grade	VARCHAR(5)	Not Null
lower_cutoff	FLOAT	Not Null
upper_cutoff	FLOAT	Not Null
no_of_students	INT	Nullable

Primary Key: (course_code,grade)