This is a database entity-relationship diagram created with dbdiagram.io.

UniversityConfig
Field	Type	
id 🔑	int	
current_semester	Semester	E
current_academic_session	varchar(8)	

User
Field	Type	
user_id 🔑	varchar(10)	
username	varchar(10)	
password_hash	varchar(10)	
email	varchar(20)	
phone	varchar(11)	
dob	date	
gender	Gender	E
role	UserRole	E
date_joined	timestamp	
is_active	boolean	
admin_id	varchar(10)	

Admin
Field	Type	
admin_id 🔑	varchar(10)	
user_id	varchar(10)	NN
assigned_date	timestamp	
status	AdminStatus	E

Department
Field	Type	
department_id 🔑	int	
name	varchar(10)	
student	int	

Teacher
Field	Type	
teacher_id 🔑	varchar(10)	
hire_date	date	
designation	varchar(20)	
department_id	int	NN

head_of_department
Field	Type	
teacher_id 🔑	varchar(10)	
department_id 🔑	int	
assigned_on	date	
resigned_on	date	

Hall
Field	Type	
hall_id 🔑	varchar(10)	
name	varchar(30)	
capacity	int	
location	varchar(40)	

Student
Field	Type	
student_id 🔑	varchar(10)	
department_id	int	
academic_session	varchar(8)	
current_semester	Semester	E
hall_id	varchar(10)	
advisor_id	varchar(10)	

GradeSheet
Field	Type	
student_id 🔑	varchar(10)	
total_credit	float	
cgpa	float	
remark	text	

Course
Field	Type	
course_id 🔑	varchar(10)	
title	varchar(20)	
credit_hours	float	
semester	Semester	E
offered_by	int	
department_id	int	
pre_requisite	varchar(10)	
still_offered	boolean	

Advisor
Field	Type	
advisor_id 🔑	varchar(10)	
total_student	int	

Enrollment
Field	Type	
student_id 🔑	varchar(10)	
course_id 🔑	varchar(10)	
semester 🔑	Semester	E
enrolled_on	date	
approved_by	varchar(10)	
section_type	SectionType	E

Exam
Field	Type	
exam_id 🔑	varchar(10)	
course_id	varchar(10)	
teacher_id	varchar(10)	
title	varchar(20)	
exam_type	ExamType	E
total_marks	int	
date_of_exam	timestamp	
semester	Semester	E
academic_session	varchar(8)	

ExamResult
Field	Type	
result_id 🔑	varchar(10)	
exam_id	varchar(10)	
student_id	varchar(10)	
marks_obtained	int	
remarks	text	

Provost
Field	Type	
teacher_id	varchar(10)	
hall_id 🔑	varchar(10)	
assigned_on	date	
resigned_on	date	

Room
Field	Type	
room_id 🔑	varchar(10)	
building_name	varchar(20)	
capacity	int	
room_type	RoomType	E

SubjectAllocation
Field	Type	
teacher_id 🔑	varchar(10)	
course_id 🔑	varchar(10)	
section_type	SectionType	E
academic_session	varchar(8)	

Attendance
Field	Type	
student_id	varchar(10)	
course_id	varchar(10)	
date	timestamp	
status	AttendanceStatus	E

ClassSchedule
Field	Type	
schedule_id 🔑	varchar(10)	
course_id	varchar(10)	
section_type	SectionType	E
room_id	varchar(10)	
day_of_week	varchar(10)	
start_time	time	
end_time	time	
semester	Semester	E
academic_session	varchar(8)	

HallAssignment
Field	Type	
student_id 🔑	varchar(10)	
hall_id	varchar(10)	NN
room_number	varchar(10)	
assignment_type	AssignmentType	E
assigned_on	timestamp	
vacated_on	timestamp	

Notice
Field	Type	
notice_id 🔑	varchar(10)	
title	varchar(30)	
message	text	
created_for	varchar(10)	
created_by	varchar(10)	
created_at	timestamp	
role	UserRole	E

EmergencyContact
Field	Type	
emergency_id 🔑	varchar(10)	
user_id	varchar(10)	
name	varchar(30)	
mobile	varchar(12)	
address	varchar(30)	

Feedback
Field	Type	
feedback_id 🔑	varchar(10)	
student_id	varchar(10)	
course_id	varchar(10)	
rating	int	
comments	text	
submitted	timestamp	

FeeType
Field	Type	
fee_type_id 🔑	varchar(10)	
name	varchar(30)	
description	text	

Address
Field	Type	
address_id 🔑	varchar(10)	
user_id	varchar(10)	
country	varchar(20)	
city	varchar(20)	
street	varchar(20)	

StudentFee
Field	Type	
student_fee_id 🔑	varchar(10)	
student_id	varchar(10)	
fee_type_id	varchar(10)	
amount	int	
due_date	timestamp	
status	FeeStatus	E
paid_on	timestamp	

dbdiagram.io

UniversityConfig

id	int
current_semester	Semester E
current_academic_session	varchar(8)

head_of_department

teacher_id	varchar(10)
department_id	int
assigned_on	date
resigned_on	date

Course

course_id	varchar(10)
title	varchar(20)
credit_hours	float
semester	Semester E
offered_by	int
department_id	int
pre_requisite	varchar(10)
still_offered	boolean

Attendance

student_id	varchar(10)
course_id	varchar(10)
date	timestamp
status	AttendanceStatus E

FeeType

fee_type_id	varchar(10)
name	varchar(30)
description	text

Address

address_id	varchar(10)
user_id	varchar(10)
country	varchar(20)
city	varchar(20)
street	varchar(20)

User

user_id	varchar(10)
username	varchar(10)
password_hash	varchar(10)
email	varchar(20)
phone	varchar(11)
dob	date
gender	Gender E
role	UserRole E
date_joined	timestamp
is_active	boolean
admin_id	varchar(10)

Advisor

advisor_id	varchar(10)
total_student	int

Room

room_id	varchar(10)
building_name	varchar(20)
capacity	int
room_type	RoomType E

ClassSchedule

schedule_id	varchar(10)
course_id	varchar(10)
section_type	SectionType E
room_id	varchar(10)
day_of_week	varchar(10)
start_time	time
end_time	time
semester	Semester E
academic_session	varchar(8)

StudentFee

student_fee_id	varchar(10)
student_id	varchar(10)
fee_type_id	varchar(10)
amount	int
due_date	timestamp
status	FeeStatus E
paid_on	timestamp

Admin

admin_id	varchar(10)
user_id	varchar(10) NN
assigned_date	timestamp
status	AdminStatus E

Hall

hall_id	varchar(10)
name	varchar(30)
capacity	int
location	varchar(40)

Enrollment

student_id	varchar(10)
course_id	varchar(10)
semester	Semester E
enrolled_on	date
approved_by	varchar(10)
section_type	SectionType E

SubjectAllocation

teacher_id	varchar(10)
course_id	varchar(10)
section_type	SectionType E
academic_session	varchar(8)

Notice

notice_id	varchar(10)
title	varchar(30)
message	text
created_for	varchar(10)
created_by	varchar(10)
created_at	timestamp
role	UserRole E

Department

department_id	int
name	varchar(10)
student	int

Student

student_id	varchar(10)
department_id	int
academic_session	varchar(8)
current_semester	Semester E
hall_id	varchar(10)
advisor_id	varchar(10)

Exam

exam_id	varchar(10)
course_id	varchar(10)
teacher_id	varchar(10)
title	varchar(20)
exam_type	ExamType E
total_marks	int
date_of_exam	timestamp
semester	Semester E
academic_session	varchar(8)

HallAssignment

student_id	varchar(10)
hall_id	varchar(10) NN
room_number	varchar(10)
assignment_type	AssignmentType E
assigned_on	timestamp
vacated_on	timestamp

Feedback

feedback_id	varchar(10)
student_id	varchar(10)
course_id	varchar(10)
rating	int
comments	text
submitted	timestamp

Teacher

teacher_id	varchar(10)
hire_date	date
designation	varchar(20)
department_id	int NN

GradeSheet

student_id	varchar(10)
total_credit	float
cgpa	float
remark	text

ExamResult

result_id	varchar(10)
exam_id	varchar(10)
student_id	varchar(10)
marks_obtained	int
remarks	text

Provost

teacher_id	varchar(10)
hall_id	varchar(10)
assigned_on	date
resigned_on	date

EmergencyContact

emergency_id	varchar(10)
user_id	varchar(10)
name	varchar(30)
mobile	varchar(12)
address	varchar(30)

```
Enum AdminStatus {
    Current
    Retired
}

Enum Gender {
    Male
    Female
    Other
}

Enum ExamType {
    Term
    Quiz
    CT1
    CT2
    CT3
    CT4
}

Enum AttendanceStatus {
    Present
    Absent
    Late
    Excused
}

Enum RoomType {
    Classroom
    Laboratory
    Auditorium
    Office
}

Enum FeeStatus {
    Paid
    Unpaid
    Partial
}

Enum Semester {
    L1T1
    L1T2
    L2T1
    L2T2
    L3T1
    L3T2
    L4T1
    L4T2
}

Enum AssignmentType {
    Permanent
    Temporary
}
```

```
Enum UserRole {
    Student
    Teacher
    Admin
}


Enum SectionType {
    A1
    A2
    B1
    B2
    C1
    C2
}
```