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1 attendance

Creation: Aug 01, 2025 at 06:08 AM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
attendance_id	int		No		auto_increment			
student_id	bigint		Yes	NULL		-> students.student_id ON UPDATE RESTRICT ON DELETE RESTRICT		
course_id	int		Yes	NULL		-> courses.course_id ON UPDATE RESTRICT ON DELETE RESTRICT		
attendance_date	date		No					
status	enum('Present', 'Absent', 'Late')		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

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2 campuses

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
campus_id	bigint		No		auto_increment			
inst_id	int		Yes	NULL		-> institutes.institute_id ON UPDATE CASCADE ON DELETE RESTRICT		
name	varchar(100)		No					
address	varchar(255)		Yes	NULL				
city	varchar(50)		Yes	NULL				

3 classes

Creation: Aug 01, 2025 at 06:08 AM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
class_id	int		No		auto_increment			
course_id	int		Yes	NULL		-> Courses.course_id ON UPDATE RESTRICT ON DELETE RESTRICT		
teacher_id	bigint		Yes	NULL		-> employee.employee_id ON UPDATE RESTRICT ON DELETE RESTRICT		
classroom	varchar(50)		Yes	NULL				
start_time	time		No					
end_time	time		No					
day_of_week	enum('Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday')		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

4 courses

Creation: Aug 01, 2025 at 06:08 AM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
course_id	int		No		auto_increment			
course_code	varchar(10)		No					
course_name	varchar(100)		No					
dpt_id	int		Yes	NULL		-> departments.department_id ON UPDATE RESTRICT ON DELETE RESTRICT		
teacher_id	bigint		Yes	NULL		-> employee.employee_id ON UPDATE RESTRICT ON DELETE RESTRICT		
isactive	bit(1)		Yes	NULL				
credits	int		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

5 departments

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
department_id	int		No		auto_increment			
department_name	varchar(100)		No					
dpt_head_id	bigint		Yes	NULL		-> employee.employee_id ON UPDATE RESTRICT ON DELETE RESTRICT		
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

6 employee

Creation: Aug 01, 2025 at 06:08 AM

Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
employee_id	bigint		No		auto_increment			
emp_role_id	int		No			-> emp_roles.id ON UPDATE CASCADE ON DELETE RESTRICT		
cmp_id	bigint		No			-> campuses.campus_id ON UPDATE CASCADE ON DELETE RESTRICT		
f_name	varchar(50)		No					
l_name	varchar(50)		No					
email	varchar(100)		Yes	NULL				
phone	varchar(15)		Yes	NULL				
hire_date	date		No					
department	varchar(50)		Yes	NULL				
isactive	bit(1)		Yes	NULL				
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

7 emp_attendance

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
emp_atn_id	bigint		No		auto_increment			
emp_id	bigint		Yes	NULL		-> employee.employee_id ON UPDATE RESTRICT ON DELETE RESTRICT		
attendance_date	date		No					
status	enum('Present', 'Absent', 'Late')		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

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8 emp_roles

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int		No		auto_increment			
role_name	varchar(255)		No					

9 enrollments

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
enrollment_id	int		No		auto_increment			
student_id	bigint		Yes	NULL		-> students.student_id ON UPDATE RESTRICT ON DELETE RESTRICT		
course_id	int		Yes	NULL		-> courses.course_id ON UPDATE RESTRICT ON DELETE RESTRICT		
enrollment_date	date		No					
grade	varchar(2)		Yes	NULL				
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

10 Fee

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
fee_id	bigint		No		auto_increment			
std_id	bigint		Yes	NULL		-> students.student_id ON UPDATE RESTRICT ON DELETE RESTRICT		
amount	bigint		Yes	NULL				
year	year		Yes	NULL				
month	int		Yes	NULL				
status	enum('Paid', 'Pending', 'Conflict')		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

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11 institutes

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
institute_id	int		No		auto_increment			
name	varchar(100)		No					
address	varchar(255)		Yes	NULL				
contact_number	varchar(20)		Yes	NULL				
email	varchar(100)		Yes	NULL				
established_date	date		Yes	NULL				

12 salary

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
slr_id	bigint		No		auto_increment			
emp_id	bigint		Yes	NULL		-> employee.employee_id ON UPDATE RESTRICT ON DELETE RESTRICT		
amount	bigint		Yes	NULL				
year	year		Yes	NULL				
month	int		Yes	NULL				
status	enum('Paid', 'Pending', 'Conflict')		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

13 students

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
student_id	bigint		No		auto_increment			
cmp_id	bigint		No			-> campuses.campus_id ON UPDATE CASCADE ON DELETE RESTRICT		
first_name	varchar(50)		No					
last_name	varchar(50)		No					
date_of_birth	date		No					
email	varchar(100)		Yes	NULL				
phone	varchar(15)		Yes	NULL				
address	varchar(200)		Yes	NULL				
isactive	bit(1)		Yes	NULL				
enrollment_date	date		No					
created_at	timestamp		Yes	CURRENT_TIMESTAMP	DEFAULT_GENERATED			

14 user

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	bigint		No		auto_increment			
role_id	bigint		No			-> user_role.id ON UPDATE CASCADE ON DELETE RESTRICT		
emp_id	bigint		No			-> employee.employee_id ON UPDATE CASCADE ON DELETE RESTRICT		
isactive	bit(1)		Yes	NULL				
account_non_expired	bit(1)		No					
account_non_locked	bit(1)		No					
credentials_non_expired	bit(1)		No					
email	varchar(255)		Yes	NULL				
enabled	bit(1)		No					
password	varchar(255)		Yes	NULL				

15 user_role

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Column	Type	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	bigint		No		auto_increment			
role_name	varchar(255)		No					

Entity-relationship diagram containing the following tables:

user_role
- id
- role_name

emp_roles
- id
- role_name

user
- id
- role_id
- emp_id
- isactive
- account_non_expired
- account_non_locked
- credentials_non_expired
- email
- enabled
- password

employee
- employee_id
- emp_role_id
- cmp_id
- f_name
- l_name
- email
- phone
- hire_date
- department
- isactive
- created_at

salary
- sal_id
- emp_id
- amount
- year
- month
- status
- created_at

emp_attendance
- emp_atn_id
- emp_id
- attendance_date
- status
- created_at

classes
- class_id
- course_id
- teacher_id
- classroom
- start_time
- end_time
- day_of_week
- created_at

courses
- course_id
- course_code
- course_name
- dpt_id
- teacher_id
- isactive
- credits
- created_at

departments
- department_id
- department_name
- dpt_head_id
- created_at

enrollments
- enrollment_id
- student_id
- course_id
- enrollment_date
- grade
- created_at

attendance
- attendance_id
- student_id
- course_id
- attendance_date
- status
- created_at

institutes
- institute_id
- name
- address
- contact_number
- email
- established_date

campuses
- campus_id
- inst_id
- name
- address
- city

students
- student_id
- cmp_id
- first_name
- last_name
- date_of_birth
- email
- phone
- address
- isactive
- enrollment_date
- created_at

Fee
- fee_id
- std_id
- amount
- year
- month
- status
- created_at