

Users			
VARCHAR	email	PK	PRIMARY KEY
VARCHAR	username		NOT NULL, UNIQUE
VARCHAR	password		NOT NULL
VARCHAR	name		NOT NULL
ENUM	role		ENUM('student', 'teacher') NOT NULL
VARCHAR	branch		NOT NULL
TIMESTAMP	created_at		DEFAULT CURRENT_TIMESTAMP

Tests			
INT	id	PK	AUTO_INCREMENT, PRIMARY KEY
VARCHAR	title		NOT NULL, UNIQUE
TEXT	description		
ENUM	type		ENUM('GATE_PYQ', 'MOCK_TEST', 'CUSTOM_TEST', 'CHAPTER_WISE', 'SUBJECT_WISE') NOT NULL
VARCHAR	created_by		NOT NULL
VARCHAR	chapter		
VARCHAR	subject		
INT	duration		Duration in minutes
TIMESTAMP	created_at		DEFAULT CURRENT_TIMESTAMP

TestAttempts			
INT	id	PK	AUTO_INCREMENT, PRIMARY KEY
VARCHAR	user_id		NOT NULL
INT	test_id		NOT NULL
TIMESTAMP	started_at		DEFAULT CURRENT_TIMESTAMP
TIMESTAMP	completed_at		
INT	duration		Time taken to complete the test in minutes

Questions			
INT	id	PK	AUTO_INCREMENT, PRIMARY KEY
INT	test_id		NOT NULL
VARCHAR	question_link		NOT NULL
ENUM	question_type		ENUM('MCQ', 'NUMERICAL', 'MSQ') NOT NULL
INT	marks		NOT NULL, DEFAULT 1
TIMESTAMP	created_at		DEFAULT CURRENT_TIMESTAMP

Results			
INT	id	PK	AUTO_INCREMENT, PRIMARY KEY
INT	attempt_id		NOT NULL
DECIMAL	score		(10, 2)

Options			
INT	id	PK	AUTO_INCREMENT, PRIMARY KEY
INT	question_id		NOT NULL
VARCHAR	option_text		
BOOLEAN	is_correct		NOT NULL
TIMESTAMP	created_at		DEFAULT CURRENT_TIMESTAMP

Responses			
INT	id	PK	AUTO_INCREMENT, PRIMARY KEY
INT	attempt_id		NOT NULL
INT	question_id		NOT NULL
INT	option_id		
DECIMAL	numerical_response		(10, 2)

