	users
PK	id SERIAL
	school_id
	username VARCHAR(50) UNIQUE NOT NULL
	password VARCHAR(255) NOT NULL
	first_name VARCHAR(50) NOT NULL
	last_name VARCHAR(50) NOT NULL
	email VARCHAR(100) UNIQUE NOT NULL
	phone VARCHAR(20)
	address TEXT
	last_login TIMESTAMP
	is_active BOOLEAN DEFAULT true
	fingerprint VARCHAR(255)
	created_at TIMESTAMP DEFAULT CURRENT_TIME
	updated_at TIMESTAMP DEFAULT CURRENT_TIME
	principals
PK	school_id SERIAL
	user_id INTEGER REFERENCES users(id) ON DELI
	appointment_date DATE NOT NULL

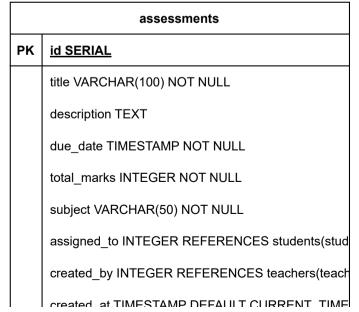
	email VARCHAR(100) UNIQUE NOT NULL
	phone VARCHAR(20)
	address TEXT
	last_login TIMESTAMP
	is_active BOOLEAN DEFAULT true
	fingerprint VARCHAR(255)
	created_at TIMESTAMP DEFAULT CURRENT_TIME
	updated_at TIMESTAMP DEFAULT CURRENT_TIME
	principals
PK	school_id SERIAL
	user_id INTEGER REFERENCES users(id) ON DELI
	appointment_date DATE NOT NULL
	created_at TIMESTAMP DEFAULT CURRENT_TIME
	updated_at TIMESTAMP DEFAULT CURRENT_TIME
	section_heads
PK	teacher_id INTEGER REFERENCES teachers(teac
PK	section id SERIAL

	students	
PK	student id SERIAL	
	user_id INTEGER REFERENCES users(id) ON DELE	
	grade VARCHAR(10) NOT NULL	
	section VARCHAR(5) NOT NULL	
	enrollment_date DATE NOT NULL	
	parent_name VARCHAR(100) NOT NULL	
	parent_contact VARCHAR(20) NOT NULL	
	gpa DECIMAL(3,2)	
	created_at TIMESTAMP DEFAULT CURRENT_TIME	
	updated_at TIMESTAMP DEFAULT CURRENT_TIME	
	admins	
DK	admin id SERIAI	

	admins	
PK	admin id SERIAL	
	user_id INTEGER REFERENCES users(id) ON DELE	
	access_level VARCHAR(20) NOT NULL	
	created_at TIMESTAMP DEFAULT CURRENT_TIME	
	updated_at TIMESTAMP DEFAULT CURRENT_TIME	

	timetables	
PK	id SERIAL	
	grade VARCHAR(10) NOT NULL	
	section VARCHAR(5) NOT NULL	
	schedule JSONB NOT NULL, Storing schedule as	
	valid_from DATE NOT NULL	
	valid_to DATE NOT NULL	

	teachers
PK	teacher id SERIAL
	user_id INTEGER REFERENCES users(id) ON DELE
	department VARCHAR(50) NOT NULL
	subjects TEXT[], Array of subjects
	joining_date DATE NOT NULL
	qualification TEXT NOT NULL
	created_at TIMESTAMP DEFAULT CURRENT_TIME
	updated_at TIMESTAMP DEFAULT CURRENT_TIME



department VARCHAR(50) NOT NULL
created_at TIMESTAMP DEFAULT CURRENT_TIME
updated_at TIMESTAMP DEFAULT CURRENT_TIME

	exam_results	
PK	student_id INTEGER REFERENCES students(stud	
PK	id SERIAL	
	exam_id INTEGER REFERENCES exams(id) ON DE	
	marks DECIMAL(5,2) NOT NULL	
	grade VARCHAR(2)	
	remarks TEXT	
	date DATE NOT NULL	
	created_at TIMESTAMP DEFAULT CURRENT_TIME	
	updated_at TIMESTAMP DEFAULT CURRENT_TIME	

	exams
PK	id SERIAL
	name VARCHAR(100) NOT NULL
	subject VARCHAR(50) NOT NULL
	date DATE NOT NULL
	duration INTEGER NOT NULL, Duration in minutes
	total_marks INTEGER NOT NULL
	created_by INTEGER REFERENCES teachers(teach
	created_at TIMESTAMP DEFAULT CURRENT_TIME
	updated_at TIMESTAMP DEFAULT CURRENT_TIME

created\_at TIMESTAMP DEFAULT CURRENT\_TIME updated\_at TIMESTAMP DEFAULT CURRENT\_TIME

## PK student\_id INTEGER REFERENCES students(students\_students\_delivers) current\_grade VARCHAR(10) NOT NULL academic\_year VARCHAR(9) NOT NULL subjects JSONB NOT NULL, -- Storing subjects and to attendance JSONB NOT NULL, -- Storing attendance achievements TEXT[] created\_at TIMESTAMP DEFAULT CURRENT\_TIME updated\_at TIMESTAMP DEFAULT CURRENT\_TIME

	reports	
PK	id SERIAL	
	type VARCHAR(50) NOT NULL	
	date DATE NOT NULL	
	generated_by INTEGER REFERENCES users(id)	
	content TEXT NOT NULL	
	created_at TIMESTAMP DEFAULT CURRENT_TIME	
	updated_at TIMESTAMP DEFAULT CURRENT_TIME	

updated\_at TIMESTAMP DEFAULT CURRENT\_TIME

	sessions	
PK	teacher_id INTEGER REFERENCES teachers(teac	
PK	id SERIAL	
	subject VARCHAR(50) NOT NULL	
	start_time TIME NOT NULL	
	end_time TIME NOT NULL	
	day VARCHAR(10) NOT NULL	
	timetable_id INTEGER REFERENCES timetables(id)	
	created_at TIMESTAMP DEFAULT CURRENT_TIME	
	updated_at TIMESTAMP DEFAULT CURRENT_TIME	

logs	
PK	id SERIAL
	action VARCHAR(50) NOT NULL
	timestamp TIMESTAMP DEFAULT CURRENT_TIME
	user_id INTEGER REFERENCES users(id)
	details JSONB NOT NULL