

Tables :

1. users
2. quizzes
3. questions
4. quiz_attempts

1. users table :

```
CREATE TABLE users (  
    user_id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(150) NOT NULL,  
    email VARCHAR(150) NOT NULL UNIQUE,  
    password_hash VARCHAR(255) NOT NULL,  
    role ENUM('ADMIN', 'STUDENT') DEFAULT 'STUDENT',  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
);
```

```
mysql> desc users;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| user_id | int | NO | PRI | NULL | auto_increment |  
| name | varchar(150) | NO | | NULL | |  
| email | varchar(150) | NO | UNI | NULL | |  
| password_hash | varchar(255) | NO | | NULL | |  
| role | enum('ADMIN', 'STUDENT') | YES | | STUDENT | |  
| created_at | timestamp | YES | | CURRENT_TIMESTAMP | DEFAULT_GENERATED |  
+-----+-----+-----+-----+-----+-----+  
6 rows in set (0.09 sec)
```

2. quizzes table :

```
CREATE TABLE quizzes(  
    quiz_id INT AUTO_INCREMENT PRIMARY KEY,  
    title VARCHAR(255) NOT NULL,  
    creator_id INT NOT NULL,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (creator_id) REFERENCES users (user_id)  
);
```

```
mysql> desc quizzes;
```

Field	Type	Null	Key	Default	Extra
quiz_id	int	NO	PRI	NULL	auto_increment
title	varchar(255)	NO		NULL	
creator_id	int	NO	MUL	NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

4 rows in set (0.01 sec)

3. questions

```
CREATE TABLE questions(
```

```
    question_id INT AUTO_INCREMENT PRIMARY KEY,  
    quiz_id INT,  
    question_text TEXT NOT NULL,  
    option_a VARCHAR(500) NOT NULL,  
    option_b VARCHAR(500) NOT NULL,  
    option_c VARCHAR(500) NOT NULL,  
    option_d VARCHAR(500) NOT NULL,  
    correct_option CHAR(1) NOT NULL,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (quiz_id) REFERENCES quizzes (quiz_id)
```

```
);
```

```
mysql> desc questions;
```

Field	Type	Null	Key	Default	Extra
question_id	int	NO	PRI	NULL	auto_increment
quiz_id	int	NO	MUL	NULL	
question_text	text	NO		NULL	
option_a	varchar(500)	NO		NULL	
option_b	varchar(500)	NO		NULL	
option_c	varchar(500)	NO		NULL	
option_d	varchar(500)	NO		NULL	
correct_option	char(1)	NO		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

9 rows in set (0.00 sec)

4. quiz_attempts table

```
CREATE TABLE quiz_attempts(
```

```
    attempt_id INT PRIMARY KEY,  
    quiz_id INT NOT NULL,  
    student_id INT NOT NULL,  
    final_score INT DEFAULT NULL,
```

total_question INT,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
FOREIGN KEY (quiz_id) REFERENCES quizzes(quiz_id),
FOREIGN KEY(student_id) REFERENCES users(user_id)

);

```
mysql> desc quiz_attempts;
```

Field	Type	Null	Key	Default	Extra
attempt_id	int	NO	PRI	NULL	
quiz_id	int	NO	MUL	NULL	
student_id	int	NO	MUL	NULL	
final_score	int	YES		NULL	
total_question	int	YES		NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

```
6 rows in set (0.00 sec)
```