```
mysql> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| bank               |
| classwork          |
| emp                |
| employee           |
| information_schema |
| internship_db      |
| joins_db           |
| mysql              |
| performance_schema |
| plsql              |
| reminddose         |
| sakila             |
| spj_db             |
| student            |
| sys                |
| worker             |
| world              |
+--------------------+
17 rows in set (0.00 sec)

mysql> CREATE DATABASE Project_quizapp_db;
Query OK, 1 row affected (0.00 sec)

mysql> USE Project_quizapp_db;
Database changed
mysql> CREATE TABLE quizzes (
    ->  quiz_id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
    ->  title VARCHAR(255),
    ->  creator_id INT,
    ->  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> DESC quizzes;
+------------+--------------+------+-----+-------------------+-------------------+
| Field      | Type         | Null | Key | Default           | Extra             |
+------------+--------------+------+-----+-------------------+-------------------+
```

```
mysql> DESC quizzes;
+------------+--------------+------+-----+-------------------+-------------------+
| Field      | Type         | Null | Key | Default           | Extra             |
+------------+--------------+------+-----+-------------------+-------------------+
| quiz_id    | int          | NO   | PRI | NULL              | auto_increment    |
| title      | varchar(255) | YES  |     | NULL              |                   |
| creator_id | int          | YES  |     | NULL              |                   |
| created_at | timestamp    | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+------------+--------------+------+-----+-------------------+-------------------+
4 rows in set (0.00 sec)

mysql> CREATE TABLE users (
    -> user_id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
    -> name VARCHAR(150),
    -> email VARCHAR(150),
    -> password_hash VARCHAR(255),
    -> role ENUM('User','Admin') DEFAULT 'User',
    -> created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.01 sec)

mysql> DESC users;
+---------------+----------------------+------+-----+-------------------+-------------------+
| Field         | Type                 | Null | Key | Default           | Extra             |
+---------------+----------------------+------+-----+-------------------+-------------------+
| user_id       | int                  | NO   | PRI | NULL              | auto_increment    |
| name          | varchar(150)         | YES  |     | NULL              |                   |
| email         | varchar(150)         | YES  |     | NULL              |                   |
| password_hash | varchar(255)         | YES  |     | NULL              |                   |
| role          | enum('User','Admin') | YES  |     | User              |                   |
| created_at    | timestamp            | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+---------------+----------------------+------+-----+-------------------+-------------------+
6 rows in set (0.00 sec)

mysql> CREATE TABLE quiz_attempts (
    -> attempt_id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
    -> quiz_id INT, FOREIGN KEY(quiz_id) REFERENCES quizzes(quiz_id),
    -> user_id INT, FOREIGN KEY(user_id) REFERENCES users(user_id),
    -> final_score INT,
    -> total_questions INT,
```

```
mysql> CREATE TABLE quiz_attempts (
    -> attempt_id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
    -> quiz_id INT, FOREIGN KEY(quiz_id) REFERENCES quizzes(quiz_id),
    -> user_id INT, FOREIGN KEY(user_id) REFERENCES users(user_id),
    -> final_score INT,
    -> total_questions INT,
    -> created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> DESC quiz_attempts;
+-----------------+-----------+------+-----+-------------------+-------------------+
| Field           | Type      | Null | Key | Default           | Extra             |
+-----------------+-----------+------+-----+-------------------+-------------------+
| attempt_id      | int       | NO   | PRI | NULL              | auto_increment    |
| quiz_id         | int       | YES  | MUL | NULL              |                   |
| user_id         | int       | YES  | MUL | NULL              |                   |
| final_score     | int       | YES  |     | NULL              |                   |
| total_questions | int       | YES  |     | NULL              |                   |
| created_at      | timestamp | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+-----------------+-----------+------+-----+-------------------+-------------------+
6 rows in set (0.00 sec)

mysql> CREATE TABLE questions (
    -> question_id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
    -> quiz_id INT, FOREIGN KEY(quiz_id) REFERENCES quizzes(quiz_id),
    -> question_text TEXT,
    -> option_a VARCHAR(500),
    -> option_b VARCHAR(500),
    -> option_c VARCHAR(500),
    -> option_d VARCHAR(500),
    -> correct_option CHAR(1),
    -> created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> DESC questions;
+-----------------+-----------+------+-----+-------------------+-------------------+
| Field           | Type      | Null | Key | Default           | Extra             |
+-----------------+-----------+------+-----+-------------------+-------------------+
```

```
mysql> DESC questions;
+----------------+----------------+------+-----+-------------------+-------------------+
| Field          | Type           | Null | Key | Default           | Extra             |
+----------------+----------------+------+-----+-------------------+-------------------+
| question_id    | int            | NO   | PRI | NULL              | auto_increment    |
| quiz_id        | int            | YES  | MUL | NULL              |                   |
| question_text  | text           | YES  |     | NULL              |                   |
| option_a       | varchar(500)   | YES  |     | NULL              |                   |
| option_b       | varchar(500)   | YES  |     | NULL              |                   |
| option_c       | varchar(500)   | YES  |     | NULL              |                   |
| option_d       | varchar(500)   | YES  |     | NULL              |                   |
| correct_option | char(1)        | YES  |     | NULL              |                   |
| created_at     | timestamp      | YES  |     | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+----------------+----------------+------+-----+-------------------+-------------------+
9 rows in set (0.00 sec)

mysql> SHOW TABLES;
+------------------------------+
| Tables_in_project_quizapp_db |
+------------------------------+
| questions                    |
| quiz_attempts                |
| quizzes                      |
| users                        |
+------------------------------+
4 rows in set (0.00 sec)

mysql> INSERT INTO users (user_id, name, email, password_hash, role) VALUES (1, 'Samay', 'samay123
@email.com', '123', 'Admin');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO users (name, email, password_hash, role) VALUES ('Rohit', 'rohit456@email.com',
 '456', 'Admin');
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM users;
+---------+-------+--------------------+---------------+-------+---------------------+
| user_id | name  | email              | password_hash | role  | created_at          |
+---------+-------+--------------------+---------------+-------+---------------------+
|       1 | Samay | samay123@email.com | 123           | Admin | 2025-12-15 10:16:34 |
|       2 | Rohit | rohit456@email.com | 456           | Admin | 2025-12-15 10:17:34 |
+---------+-------+--------------------+---------------+-------+---------------------+
```