/\*you can create a SQL database with related tables for the Ampara District Tennis Club:\*/

CREATE DATABASE IF NOT EXISTS amp\_dtc;

USE amp\_dtc;

//Table for storing user login credentials

CREATE TABLE IF NOT EXISTS user\_login (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(50) NOT NULL,

password VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL,

privilage ENUM('admin', 'member') NOT NULL,

UNIQUE (username)

UNIQUE (email)

);

//Table for storing members' information

CREATE TABLE IF NOT EXISTS members (

member\_id INT AUTO\_INCREMENT PRIMARY KEY,

first\_name VARCHAR(50) NOT NULL,

last\_name VARCHAR(50) NOT NULL,

email VARCHAR(100),

phone VARCHAR(20),

date\_of\_birth DATE,

address VARCHAR(200),

member\_type ENUM('Adult', 'Child') NOT NULL DEFAULT 'Adult',

registration\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

-- Table for storing tennis courts information

CREATE TABLE IF NOT EXISTS tennis\_courts (

court\_id INT AUTO\_INCREMENT PRIMARY KEY,

court\_name VARCHAR(100) NOT NULL,

surface\_type ENUM('Hard', 'Clay', 'Grass', 'Carpet', 'Other') NOT NULL,

location VARCHAR(200) NOT NULL

);

//Table for storing tournament information

CREATE TABLE IF NOT EXISTS tournaments (

tournament\_id INT AUTO\_INCREMENT PRIMARY KEY,

tournament\_name VARCHAR(100) NOT NULL,

start\_date DATE,

end\_date DATE

);

//Table for storing match schedules (including single and double matches) referenced by tournament

CREATE TABLE IF NOT EXISTS tournament\_match\_schedule (

schedule\_id INT AUTO\_INCREMENT PRIMARY KEY,

tournament\_id INT,

court\_id INT,

match\_date DATE,

match\_time TIME,

player1\_single\_id INT,

player2\_single\_id INT,

player1\_double1\_id INT,

player2\_double1\_id INT,

player1\_double2\_id INT,

player2\_double2\_id INT,

is\_double\_match BOOLEAN DEFAULT FALSE,

FOREIGN KEY (tournament\_id) REFERENCES tournaments(tournament\_id),

FOREIGN KEY (court\_id) REFERENCES tennis\_courts(court\_id),

FOREIGN KEY (player1\_single\_id) REFERENCES members(member\_id),

FOREIGN KEY (player2\_single\_id) REFERENCES members(member\_id),

FOREIGN KEY (player1\_double1\_id) REFERENCES members(member\_id),

FOREIGN KEY (player2\_double1\_id) REFERENCES members(member\_id),

FOREIGN KEY (player1\_double2\_id) REFERENCES members(member\_id),

FOREIGN KEY (player2\_double2\_id) REFERENCES members(member\_id)

);

//Table for storing member fees for every month in every year

CREATE TABLE IF NOT EXISTS member\_fees (

fee\_id INT AUTO\_INCREMENT PRIMARY KEY,

member\_id INT,

year INT,

month INT,

fee\_amount DECIMAL(10, 2),

paid\_date DATE,

FOREIGN KEY (member\_id) REFERENCES members(member\_id)

);

-- Table for storing tournament fees for member registration

CREATE TABLE IF NOT EXISTS tournament\_fees (

fee\_id INT AUTO\_INCREMENT PRIMARY KEY,

tournament\_id INT,

member\_id INT,

fee\_amount DECIMAL(10, 2),

FOREIGN KEY (tournament\_id) REFERENCES tournaments(tournament\_id),

FOREIGN KEY (member\_id) REFERENCES members(member\_id)

);