-- 俱乐部

CREATE TABLE Clubs (

club\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

address VARCHAR(200),

details TEXT

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 棋手

CREATE TABLE Players (

player\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

address VARCHAR(200),

details TEXT,

ranking INT UNIQUE -- 每个棋手唯一排名

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 会员关系（棋手属于某俱乐部）

CREATE TABLE Members (

member\_id INT AUTO\_INCREMENT PRIMARY KEY,

club\_id INT NOT NULL,

player\_id INT NOT NULL UNIQUE, -- 一个棋手只能属于一个俱乐部

join\_date DATE,

FOREIGN KEY (club\_id) REFERENCES Clubs(club\_id),

FOREIGN KEY (player\_id) REFERENCES Players(player\_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 赞助方

CREATE TABLE Sponsors (

sponsor\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

type VARCHAR(50), -- 企业 / 政府 等

details TEXT

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 锦标赛

CREATE TABLE Tournaments (

tournament\_id INT AUTO\_INCREMENT PRIMARY KEY,

code VARCHAR(50) UNIQUE NOT NULL, -- 独特代码

name VARCHAR(100) NOT NULL,

club\_id INT, -- 举办俱乐部

start\_date DATE,

end\_date DATE,

FOREIGN KEY (club\_id) REFERENCES Clubs(club\_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 锦标赛与赞助方的多对多关系

CREATE TABLE Tournament\_Sponsors (

tournament\_id INT NOT NULL,

sponsor\_id INT NOT NULL,

PRIMARY KEY (tournament\_id, sponsor\_id),

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

FOREIGN KEY (sponsor\_id) REFERENCES Sponsors(sponsor\_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 锦标赛参赛棋手

CREATE TABLE Tournament\_Participants (

tournament\_id INT NOT NULL,

player\_id INT NOT NULL,

PRIMARY KEY (tournament\_id, player\_id),

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

FOREIGN KEY (player\_id) REFERENCES Players(player\_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- 比赛

CREATE TABLE Matches (

match\_id INT AUTO\_INCREMENT PRIMARY KEY,

tournament\_id INT NOT NULL,

player1\_id INT NOT NULL,

player2\_id INT NOT NULL,

result VARCHAR(50), -- 例如 "1-0"、"0-1"、"0.5-0.5"

match\_date DATE,

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

FOREIGN KEY (player1\_id) REFERENCES Players(player\_id),

FOREIGN KEY (player2\_id) REFERENCES Players(player\_id)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;