





Create database SWIM\_TEAM\_DATABASE;

Use SWIM\_TEAM\_DATABASE;

```
CREATE TABLE Swim_Meet
(
    swim_meet_id INT NOT NULL,
    name          VARCHAR(25) NOT NULL,
    date          DATE,
    location      VARCHAR(25),
    type_of_meet  VARCHAR(25),
    CONSTRAINT Swim_Meet_PK PRIMARY KEY (swim_meet_id)
);
```

```
CREATE TABLE Event
(
    event_unique_id INT NOT NULL,
    description      VARCHAR(1000),
    swim_meet_id     INT,
    CONSTRAINT Event_PK PRIMARY KEY (event_unique_id),
    CONSTRAINT Event_FK1 FOREIGN KEY (swim_meet_id) REFERENCES Swim_Meet(swim_meet_id)
);
```

```
CREATE TABLE Team
(
    team_unique_name VARCHAR(25) NOT NULL,
    address           VARCHAR(50),
    phone_number      VARCHAR(20),
    captain           INT,
    CONSTRAINT Team_PK PRIMARY KEY (team_unique_name)
);
```

```
CREATE TABLE Swimmer
(
    swimmer_id INT NOT NULL,
    ssn         CHAR(9),
    team_unique_name VARCHAR(25) NOT NULL,
    name        VARCHAR(25) NOT NULL,
    address     VARCHAR(50),
    phone_number VARCHAR(20),
    email       VARCHAR(50),
    date_of_birth DATE,
    swimmer_type ENUM('Trainer', 'Normal', 'None') NOT NULL,
    CONSTRAINT Swimmer_PK PRIMARY KEY (swimmer_id),
    CONSTRAINT Swimmer_FK1 FOREIGN KEY (team_unique_name) REFERENCES Team(team_unique_name)
);
```

```
CREATE TABLE License
(
    trainer_license_id INT NOT NULL,
    issue_date         DATE,
    expiry_date        DATE,
    CONSTRAINT License_PK PRIMARY KEY (trainer_license_id)
);
```

```

CREATE TABLE Trainer_Level
(
    swimmer_id          INT NOT NULL,
    trainer_license_id   INT NOT NULL,
    CONSTRAINT Trainer_Level_PK PRIMARY KEY (swimmer_id),
    CONSTRAINT Trainer_Level_FK1 FOREIGN KEY (swimmer_id) REFERENCES Swimmer(swimmer_id),
    CONSTRAINT Trainer_Level_FK2 FOREIGN KEY (trainer_license_id) REFERENCES
License(trainer_license_id)
);

CREATE TABLE NORMAL_LEVEL
(
    swimmer_id          INT NOT NULL,
    guardian_name        VARCHAR(25),
    CONSTRAINT Normal_Level_PK PRIMARY KEY (swimmer_id),
    CONSTRAINT Normal_Level_FK1 FOREIGN KEY (swimmer_id) REFERENCES Swimmer(swimmer_id)
);

CREATE TABLE Performance
(
    swimmer_id          INT NOT NULL,
    swim_meet_id        INT NOT NULL,
    event_unique_id     INT NOT NULL,
    time                TIME,
    place               INT,
    point               INT,
    CONSTRAINT Performance_PK PRIMARY KEY (swimmer_id, swim_meet_id, event_unique_id),
    CONSTRAINT Performance_FK1 FOREIGN KEY (swimmer_id) REFERENCES Swimmer(swimmer_id),
    CONSTRAINT Performance_FK2 FOREIGN KEY (swim_meet_id) REFERENCES Swim_Meet(swim_meet_id),
    CONSTRAINT Performance_FK3 FOREIGN KEY (event_unique_id) REFERENCES Event(event_unique_id)
);

CREATE TABLE Qualification_Criteria
(
    event_unique_id     INT NOT NULL,
    swimmer_id          INT NOT NULL,
    qualification_status BOOLEAN,
    CONSTRAINT Qualification_Criteria_PK PRIMARY KEY (event_unique_id, swimmer_id),
    CONSTRAINT Qualification_Criteria_FK1 FOREIGN KEY (event_unique_id) REFERENCES
Event(event_unique_id),
    CONSTRAINT Qualification_Criteria_FK2 FOREIGN KEY (swimmer_id) REFERENCES
Swimmer(swimmer_id)
);

CREATE TABLE Meet_Occurrence
(
    team_unique_name    VARCHAR(25) NOT NULL,
    swim_meet_id        INT NOT NULL,
    CONSTRAINT Meet_Occurrence_PK PRIMARY KEY (team_unique_name, swim_meet_id),
    CONSTRAINT Meet_Occurrence_FK1 FOREIGN KEY (team_unique_name) REFERENCES
Team(team_unique_name),
    CONSTRAINT Meet_Occurrence_FK2 FOREIGN KEY (swim_meet_id) REFERENCES
Swim_Meet(swim_meet_id)
);

ALTER TABLE Team
ADD CONSTRAINT Team_FK1 FOREIGN KEY (captain) REFERENCES Swimmer(swimmer_id);

```