Description:

1. UserLogin → AthleteFacts: <u>One mandatory - Many optional</u>
   Each user (userLogin) can submit zero to many fun facts about athletes (athleteFacts) (**many optional**). Although, the fun fact must have one user corresponding to it (**one mandatory**)

2. Countries → Athletes: <u>One mandatory - Many mandatory</u>
   Athletes will only belong to one country and with that, one country can have many athletes.

3. Countries → Medals: <u>One mandatory - One mandatory</u>
   Each country has one medal row. The medal row will be specific to each country and show how many medals each country won.

4. Athletes → Coaches: <u>Many optional - Many mandatory</u>

An athlete is managed by one coach to many but a coach does not need to have an athlete though.

5. Athletes → AthleteFacts: <u>One mandatory - Many optional</u>
   One athlete can have zero facts if the user inputs none but once the user does, they can have many (**many optional**). In that sense, many facts can correspond to **only one** athlete.

6. Countries → Coaches: <u>One mandatory - Many mandatory</u>
   One country can have 1 to many coaches but a coach should belong to one country.

Connecting tables: UserSubmissions, Have, Manage

Relationship Schema:

Table- UserLogin(UserID:VARCHAR(255)[PK], Name:VARCHAR(255), DOB:DATE, CountryOfOrigin:VARCHAR(255))

Table - Countries(CountryName:VARCHAR(255)[PK])

Table - Medals(CountryName:VARCHAR(255)[PK], Gold:INT, Silver:INT, Bronze:INT, CountryName: VARCHAR(255)[FK to Countries.CountryName])

Table - Coaches(CoachName:VARCHAR(255)[PK], Discipline:VARCHAR(255), CountryName[FK TO Countries.CountryName])

Table - Athletes(AthleteName:VARCHAR(255)[PK], Discipline:VARCHAR(255), CountryName[FK TO Countries.CountryName])

Table - AthleteFacts((UserID: VARCHAR(255), AthleteName:VARCHAR(255))[FK TO Athletes.AthleteName], Contents:VARCHAR(255))

Table - Officials((name: VARCHAR(255), discipline:VARCHAR(255))[PK]), gender:VARCHAR(255), country: VARCHAR(255), role:VARCHAR(255))