Task 4 : SQL for database

```sql
CREATE TABLE Swimmer(
Swimmer_ID INT NOT NULL auto_increment, primary key(Swimmer_ID), Fname
VARCHAR(100) NOT NULL, Lname VARCHAR(100) NOT NULL,Sex VARCHAR(50));

CREATE TABLE Solo_Swimmer(Swimmer_ID INT auto_increment NOT NULL, primary
key(Swimmer_ID), foreign key (Swimmer_ID) references swimmer(Swimmer_ID));

CREATE TABLE Team_Swimmer(Swimmer_ID INT auto_increment NOT NULL, Team_ID
INT NOT NULL, primary key(Swimmer_ID)-- Remember to add forigen key);

create TABLE Venue(Venue_ID INT auto_increment NOT NULL, primary key(Venue_ID),
Name VARCHAR(100) NOT NULL, Opening_hours TIME, Street_Name VARCHAR(100),
Area_Code VARCHAR(20), Street_Number varchar(10));

CREATE TABLE Pool(Pool_ID INT auto_increment NOT NULL, primary key(Pool_ID),
Venue_ID INT, foreign key (Venue_ID) references Venue(Venue_ID), Pool_Name
varchar(100) NOT NULL, Num_Lanes INT);

CREATE TABLE Event(Event_ID INT auto_increment NOT NULL,Event_Namevarchar(100),
Num_Races INT, primary key(Event_ID));

CREATE TABLE Team(Team_ID INT auto_increment NOT NULL,primary
key(Team_ID),Team_Name VARCHAR(100));

alter TABLE team_swimmerADD FOREIGN KEY (Team_ID) REFERENCES
Team(Team_ID);

CREATE TABLE Venue_Event(Venue_ID INT auto_increment NOT NULL,
primarykey(Venue_ID),Event_ID INT, foreign key (Venue_ID) referencesEvent(Event_ID));

CREATE TABLE Event_Swimmer(Event_ID INT auto_increment NOT NULL,
primarykey(Event_ID), Swimmer_ID INT, foreign key (Event_ID) references
Swimmer(Swimmer_ID));

create table Race_Swimmer(Race_ID INT auto_increment NOT NULL,
primarykey(Race_ID), Swimmer_ID INT, foreign key (Swimmer_ID)
referencesSwimmer(Swimmer_ID), Swimmer_Time TIME, Swimmer_Position
INT,Team_Position INT);

ALTER TAble Race_Swimmer MODIFY column Swimmer_Time TIME(3);


CREATE TABLE Race(Race_ID INT auto_increment NOT NULL,primary key(Race_ID),
Pool_ID INT NOT NULL, foreign key (Pool_ID) references pool(Pool_ID),Event_ID INT NOT
NULL, foreign key (Event_ID) references event(Event_ID), Date DATE NOT NULL, Distance
INT NOT NULL, Stroke_TypeVARCHAR(20));
```