

SQL Data Definition

-- Creating the Game table

```
CREATE TABLE Game (  
    game_ID INTEGER PRIMARY KEY AUTOINCREMENT,  
    title TEXT NOT NULL,  
    developer TEXT,  
    releaseDate DATE,  
    platform TEXT  
);
```

-- Creating the Player table

```
CREATE TABLE Player (  
    username TEXT PRIMARY KEY,  
    country TEXT,  
    joinDate DATE  
);
```

-- Creating the Category table

```
CREATE TABLE Category (  
    category_ID INTEGER PRIMARY KEY AUTOINCREMENT,  
    game_ID INTEGER,  
    name TEXT,  
    description TEXT,  
    FOREIGN KEY (game_ID) REFERENCES Game(game_ID)  
);
```

-- Creating the Run table

```
CREATE TABLE Run (  
    run_ID INTEGER PRIMARY KEY AUTOINCREMENT,  
    game_ID INTEGER,  
    username TEXT,  
    category_ID INTEGER,  
    completionTime INTEGER,  
    completionDate DATE,  
    videoLink TEXT,  
    FOREIGN KEY (game_ID) REFERENCES Game(game_ID),  
    FOREIGN KEY (username) REFERENCES Player(username),  
    FOREIGN KEY (category_ID) REFERENCES Category(category_ID)  
);
```

-- Creating the Ranking table

```
CREATE TABLE Ranking (  
    ranking_ID INTEGER PRIMARY KEY AUTOINCREMENT,
```

```

run_ID INTEGER,
rank INTEGER,
FOREIGN KEY (run_ID) REFERENCES Run(run_ID)
);

```

```

-- 'Plays' is a junction table for a many-to-many relationship between Player and Game
CREATE TABLE Plays (
    username TEXT,
    game_ID INTEGER,
    FOREIGN KEY (username) REFERENCES Player(username),
    FOREIGN KEY (game_ID) REFERENCES Game(game_ID),
    PRIMARY KEY (username, game_ID)
);

```

Proof of Creation:

Tables (7)		
Category		CREATE TABLE Category (category_ID INTEGER PRIMARY KEY AUTOINCREMENT,game_ID INTEGER,name TEXT,description TEXT,FO
category_ID	INTEGER	"category_ID" INTEGER
game_ID	INTEGER	"game_ID" INTEGER
name	TEXT	"name" TEXT
description	TEXT	"description" TEXT
Game		CREATE TABLE Game (game_ID INTEGER PRIMARY KEY AUTOINCREMENT,title TEXT NOT NULL,developer TEXT,releaseDate DATE,pl
game_ID	INTEGER	"game_ID" INTEGER
title	TEXT	"title" TEXT NOT NULL
developer	TEXT	"developer" TEXT
releaseDate	DATE	"releaseDate" DATE
platform	TEXT	"platform" TEXT
Player		CREATE TABLE Player (username TEXT PRIMARY KEY,country TEXT,joinDate DATE)
username	TEXT	"username" TEXT
country	TEXT	"country" TEXT
joinDate	DATE	"joinDate" DATE
Plays		CREATE TABLE Plays (username TEXT,game_ID INTEGER,FOREIGN KEY (username) REFERENCES Player(username),FOREIGN KEY (g
username	TEXT	"username" TEXT
game_ID	INTEGER	"game_ID" INTEGER
Ranking		CREATE TABLE Ranking (ranking_ID INTEGER PRIMARY KEY AUTOINCREMENT,run_ID INTEGER,rank INTEGER,FOREIGN KEY (run_ID)
ranking_ID	INTEGER	"ranking_ID" INTEGER
run_ID	INTEGER	"run_ID" INTEGER
rank	INTEGER	"rank" INTEGER
Run		CREATE TABLE "Run" ("run_ID" INTEGER,"game_ID" INTEGER,"username" TEXT,"category_ID" INTEGER,"completionTime" INTEGER
run_ID	INTEGER	"run_ID" INTEGER
game_ID	INTEGER	"game_ID" INTEGER
username	TEXT	"username" TEXT
category_ID	INTEGER	"category_ID" INTEGER
completionTime	INTEGER	"completionTime" INTEGER
completionDate	DATE	"completionDate" DATE
videoLink	TEXT	"videoLink" TEXT