

## –TABLE DDL COMMANDS–

```
CREATE TABLE User(UserId INT Primary Key,  
Username VARCHAR(255) NOT NULL,  
Email VARCHAR(255) NOT NULL,  
Password VARCHAR(255) NOT NULL);
```

```
CREATE TABLE Developer (DeveloperID INT Primary Key, Name VARCHAR(255),  
Country VARCHAR(255));
```

```
CREATE TABLE Game(GameID INT Primary Key, Title VARCHAR(255) NOT NULL,  
ReleaseDate VARCHAR(255),  
Price FLOAT,  
DeveloperID INT,  
Foreign Key (DeveloperID) References Developer(DeveloperID));
```

```
CREATE TABLE Plays (UserID INT, GameID INT,  
Primary Key (UserID, GameID),  
Foreign Key (UserID) References User(UserID),  
Foreign Key (GameID) References Game(GameID) );
```

```
CREATE TABLE Tag(TagID INT Primary Key,  
TagName VARCHAR(255) NOT NULL);
```

```
CREATE TABLE Recommendation(UserID INT, GameID INT, Rating INT, RecommendDate  
VARCHAR(255),  
Primary Key (UserID, GameID),  
Foreign Key (UserID) References User(UserID), Foreign Key (GameID) References  
Game(GameID));
```

```
CREATE TABLE GameTags (GameID INT, TagID INT,  
Primary Key (GameID, TagID),  
Foreign Key (GameID) References Game(GameID),  
Foreign Key (TagID) References Tag(TagID));
```

```
mysql> show tables;  
+-----+  
| Tables_in_GameRecommender |  
+-----+  
| Developer                  |  
| Game                      |  
| GameTags                  |  
| Plays                     |  
| Recommendation             |  
| Tag                       |  
| User                      |  
| gamefeatures              |  
+-----+  
8 rows in set (0.02 sec)
```

## -QUERIES-

### 1. Finding Developer/Developer Teams that make above average games

-Output has 3 rows

Name	AvgRating	GameCount
Turtle Rock Studios	6.7027	222
Team Meat	6.6085	212
Gearbox Software	6.5783	166

3 rows in set (0.26 sec)

### 2. Find top-rated games through average rating

-Output has 6 rows

GameID	Title	Developer	AvgRating
3	Evolve Stage 2	Turtle Rock Studios	6.7027
1	Super Meat Boy	Team Meat	6.6085
4	Borderlands 3	Gearbox Software	6.5783
2	DCS World Steam Edition	Eagle Dynamics SA	6.4398
5	BioShock Infinite	Irrational Games,Virtual Programming (Linux)	6.3110
0	Title	Name	0.0000

### 3. Find a specific game using a specific tag for both Adventure and Indie

### 4. Recommend Game based on games played