

**MPCS 53001 Database**

**Final Project - Step 3**

**GameIQ (Games Information Query) Database**

**Team 6**

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The **GameIQ** project aims to build a comprehensive and interactive database system that integrates game-related information from various platforms and sources. Our goal is to provide a unified interface for querying, analyzing, and understanding game distribution, player behaviors, and game metadata across multiple gaming environments.

## Database Requirements/Specifications:

### Dataset:

Steam Game datasets:

<https://www.kaggle.com/datasets/fronkongames/steam-games-dataset?select=games.csv>

<https://www.kaggle.com/datasets/nikdavis/steam-store-games>

Steam Review Dataset: <https://zenodo.org/records/1000885>

<https://www.kaggle.com/datasets/andrewmvd/steam-reviews>

Video Games Dataset API: <https://rawg.io/apidocs>

PS5 Game Dataset:

<https://www.kaggle.com/datasets/kanchana1990/ps5-game-data-2000-titles-explored>

Xbox Game Dataset: <https://www.kaggle.com/datasets/shivamb/all-xbox-one-games>

### Entity Set:

Game:

GameID

Name

LanguageSupport

Release\_Date

Country

Tags

Price

SupportedPlatform

Total\_Revenue

Units\_sold

Description

Required\_age

PublisherID

DeveloperID

Genre

Achievements (weak entity):

Achievements\_Name

Achievements\_Description

Publisher:

Publisher\_ID

Publisher\_Name  
Founded\_Year  
Contact\_Email  
Country  
Address  
Website  
Description

Developer:

Developer\_ID  
Developer\_Name  
Founded\_Year  
Contact\_Email  
Country  
Address  
Website  
Description

Platform:

Platform\_Id  
Name  
Manufacturer  
TotalGameOwned  
Website

Player:

PlayerID  
Player\_UserName  
Player\_Email  
Player\_Region  
Player\_JoinDate  
Player\_Level  
Player\_PlayTime  
Player\_GamesOwned

### Relationship Sets:

#### (1) “Has” (Game - Achievement):

Each game can have multiple achievements that players can earn through gameplay. If a game is removed from the database, all associated achievements must also be deleted.

#### (2) “Unlock” (Player - Achievement):

Each player can earn multiple achievements by playing different games. The gain relationship must record the timestamp when a player earns each achievement.

#### (3) “Play” (Player - Game - Platform):

Each player can play multiple games, and each game can be played by the same player on different platforms. Each play relationship must record total playing time and the last played date.

**(4) “Purchase” (Player - Game - Platform):**

Each player can purchase different games, and each transaction relationship must record the price, the transaction time, and the transaction ID.

**(5) “Review” (Player - Game - Platform):**

Each player can comment on different games on multiple platforms. The review relationship must record the review time and comment context.

**(6) “Support” (Game - Platform):**

Each game may be used on multiple platforms, and each platform can hold different games. The issuing relationship must record the game issued time on the platform and its esrb\_rating on the platform.

**(7) “Publish” (Game - Publisher):**

Each game is produced by one producer, and each producer may produce multiple games. The production relationship must record the production time.

**(8) “Develop” (Game - Developer):**

Each game is produced by one producer, and each producer may produce multiple games. The production relationship must record the production time.

**(9) “Use” (Player - Platform):**

Each player can register on multiple platforms and each platform can have different players. The use relationship must record the registration time and the total time the player has spent on the platform.

**Database Queries:**

Queries on Game:

1. List top n games by rating on certain platform (Game, Platform)
2. List all games of certain genre ordered by given attributes. List all games produced by a specific producer along with their release date and category. (Game, Producer)
3. List all games produced by a specific publisher / developer along with their release date and genre, ordered by release date. (Player, developer/publisher)
4. List all games released after certain year, along with their support system and the producers who made them. (Game, Producer)
5. List average ratings / total units sold of each genre, ordered by them in descending order.

Queries on Platform:

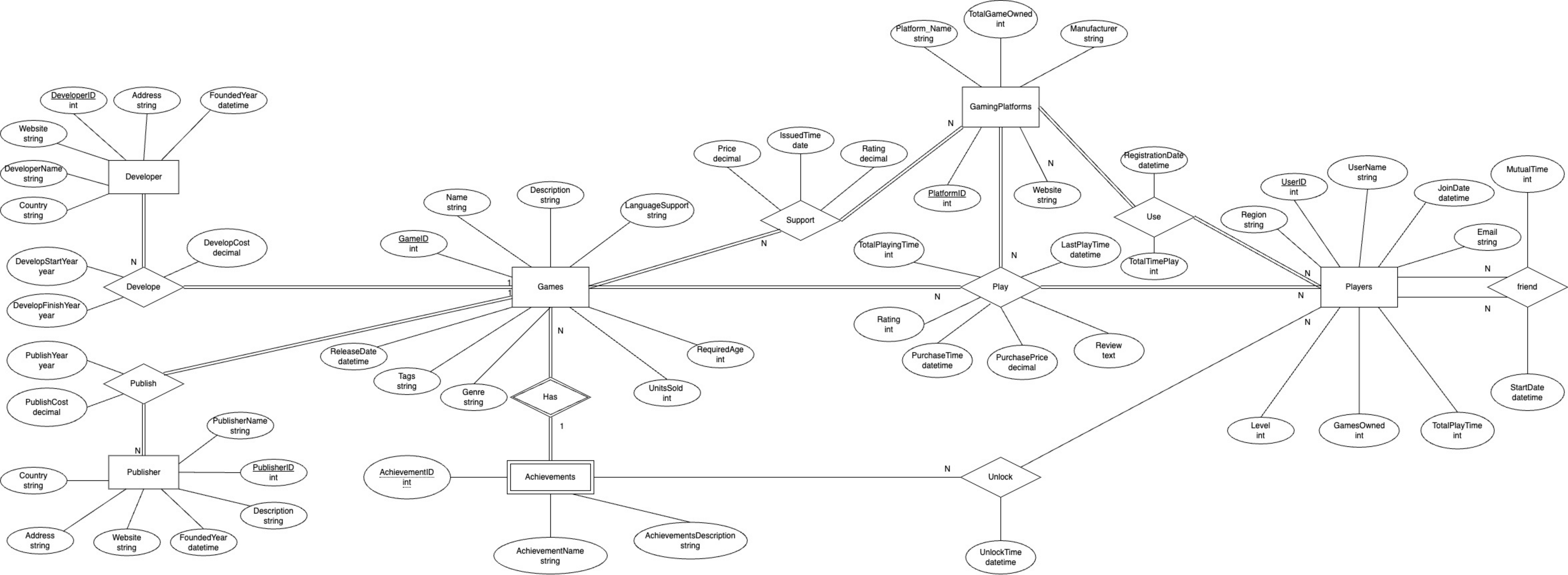
6. Find all games that are exclusive to a platform. (Game, Platform)
7. List the Number of users who spent more than X hours on a platform (User, Platform)
8. List revenue of a platform during a year. (Platform)

Queries on Users:

9. Find the top N players by playtime of a game. (Player, Game)
10. Display players ranked by achievements in a specific game . (Player, Game)
11. List total money spent by a player.
12. List all purchases of a player.
13. List friends with mutual time above threshold.

Queries on Publisher/Developer:

14. List top N developers/publishers by revenue during a time period.
15. List developers/publishers by number of high-rated games.
16. List developers/publishers by number of platform-compatible games.



Game Table

GameID	Name	Description	ReleaseDate	LanguageSupport	Genre	RequireAge	Tags	UnitsSold

Achievement Table

GameID	AchivementID	Name	Description

Player-Platform-Games-Play

GameID	PlatformID	PlayerID	TotalPlayingTime	LastPlayTime	PurchaseTime	PurchasePrice	Review	Rating

Player-Unlock-Achievement

PlayerID	GameID	AchievementID	GainTime

Player Table

UserID	UserName	Email	Region	JoinDate	Level	TotalPlayTime	GamesOwned

Player-Use-Platform

PlayerID	PlatformID	RegistrationDate	TotalTimeSpent

Player-Friends

PlayerID1	PlayerID2	StartDate	MutualTime

Platform Table

PlatformID	PlatformName	Manufacturerer	TotalGameNumber	WebSite

Platform-Support-Games

GameID	PlatformID	Price	IssuedTime	Rating

Developer Table

DeveloperID	DeveloperName	Address	FoundedYear	Country	Website

Developer-Games

GameID	DeveloperID	DevelopeStartYear	DevelopeFinishYear	DevelopeCost

Publisher Table

PublisherID	PublisherName	Address	FoundedYear	Country	Website	Description

Publisher-Games

GameID	PublisherID	PublishYear	PublishCost

**Dataset:**

Steam Game datasets:

<https://www.kaggle.com/datasets/fronkongames/steam-games-dataset?select=games.csv>

Game(Name, Requeired\_Age, Release\_date, Description, LanguageSupport, UnitsSold)

<https://www.kaggle.com/datasets/nikdavis/steam-store-games>

Game(Name, PulisherID, DeveloperID, Genres, SupportedPlatform, Price, Required\_age)

Steam Review Dataset: <https://zenodo.org/records/1000885>

<https://www.kaggle.com/datasets/andrewmvd/steam-reviews>

Review

Video Games Dataset API: <https://rawg.io/apidocs>

Game(Developer, Publisher, SupportedPlatform, tag, Genres)

PS5 Game Dataset:

<https://www.kaggle.com/datasets/kanchana1990/ps5-game-data-2000-titles-explored>

Game(Name, Publisher, Release\_date)

Xbox Game Dataset: <https://www.kaggle.com/datasets/shivamb/all-xbox-one-games>

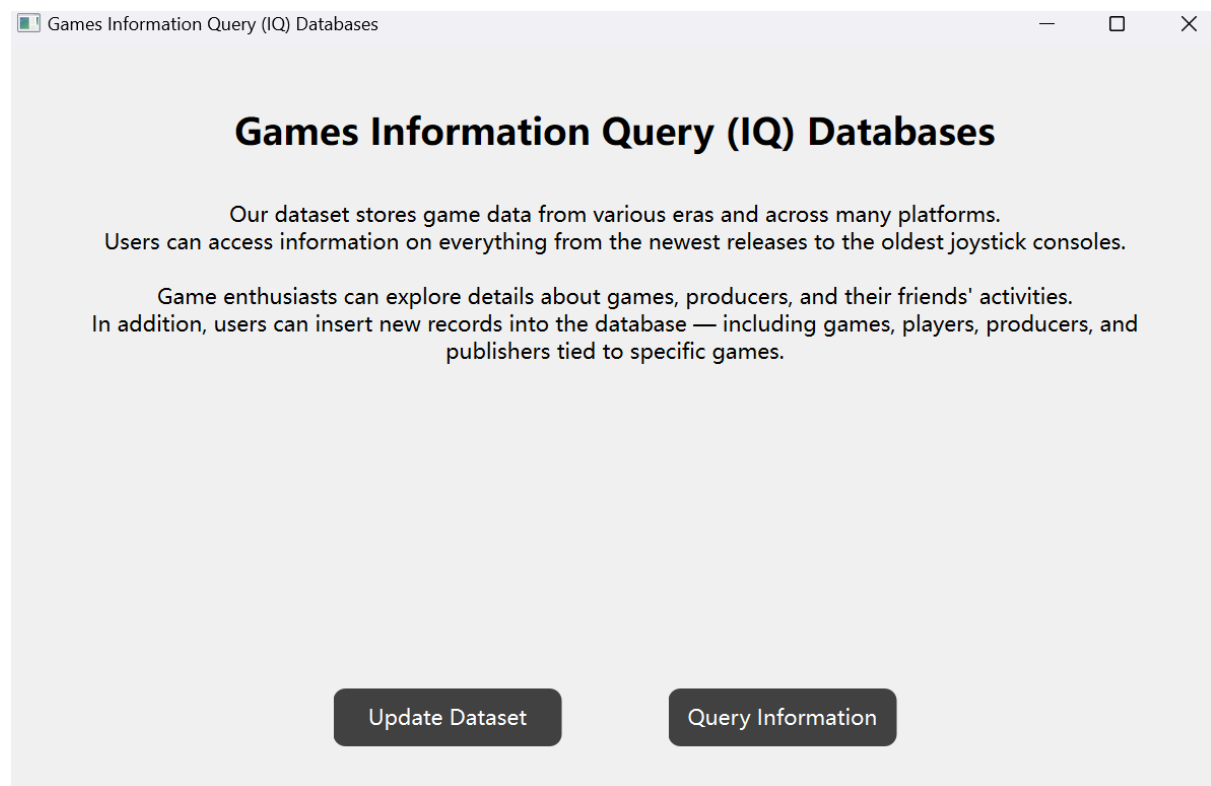
Game(Name, Publisher, Developer, SupportedPlatform, Genres)



Initialize data:

```
PS D:\Uchi\course\DB\project_group6\project> python UI.py
✓ MySQL connected: <mysql.connector.connection.MySQLConnection object at 0x000001CF0CBD67F0>
Error: 1050 (42S01): Table 'games' already exists
Inserting into table: Games
206 records inserted into 'Games'.
Inserting into table: Player
100 records inserted into 'Player'.
Inserting into table: Platform
14 records inserted into 'Platform'.
Inserting into table: Developer
75 records inserted into 'Developer'.
Inserting into table: Publisher
29 records inserted into 'Publisher'.
Inserting into table: Achievement
```

User Interface:



## Queries

### Games

1 list top n games by rating on certain platform

query attributes: platform top n

results: game name and average user rating

```
SELECT G.Name, AVG(PPGP.Rating) AS Rating
FROM Games AS G
INNER JOIN Player_Platform_Games_Play AS PPGP
  ON G.GameID = PPGP.GameID
INNER JOIN Platform AS P
  ON PPGP.PlatformID = P.PlatformID
WHERE P.PlatformName = {platform}
GROUP BY G.GameID
ORDER BY Rating DESC
LIMIT {Top N}
```

Game Queries

Choose a game-related query:

1. List top n games by rating on certain platform

Platform: PS3

Top N: 5

Run Query

	Game Name	Rating
1	Uncharted 2: Among Thieves	9.0000
2	Batman: Arkham City	9.0000
3	Batman: Arkham Asylum	8.5000
4	Battlefield 4	8.0000
5	Battlefield 3	8.0000

Back

2 list all games of certain genre ordered by given attributes

query attributes: genre / selected attributes

results: id name

```
SELECT GameID, Name, {order_attri}
```

```
FROM Games
```

```
WHERE Genre = {Genre}
```

```
ORDER BY {order_attri} {order}
```

Game Queries

Choose a game-related query:

2. List all games of certain genre ordered by given attributes

Genre: Shooter

Order Attribute: ReleaseDate

Order: ASC

Run Query

	Game Name	Genre	Attribute Value
1	12	Asteroids	1981-01-01
2	44	Doom II	1994-09-30
3	1	007: Tomorrow Never Dies	1999-11-16
4	95	James Bond 007: Agent Under Fire	2001-11-13
5	118	Max Payne	2001-12-06

Back

3 List all games produced by a specific publisher / developer along with their release date and genre, ordered by released date

query attributes: publisher developer

results: id name release\_date genre

```
SELECT G.GameID, G.ReleaseDate
FROM Games AS G
INNER JOIN Publisher_Games AS PG
  ON G.GameID = PG.GameID
INNER JOIN Publisher AS P
  ON PG.PublisherID = P.PublisherID
WHERE P.PublisherName = {Name}
ORDER BY G.ReleaseDate ASC
```

or

```
SELECT G.GameID, G.ReleaseDate
FROM Games AS G
INNER JOIN Developer_Games AS DG
  ON G.GameID = DG.GameID
INNER JOIN Developer AS D
  ON DG.DeveloperID = D.DeveloperID
WHERE D.DeveloperName = {Name}
ORDER BY G.ReleaseDate ASC
```

The screenshot shows a window titled "Game Queries" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there is a section "Choose a game-related query:" with a dropdown menu. The selected option is "3. List all games produced by a specific publisher / developer along with their release date and genre, ordered by release date". Below this, there are two more dropdown menus: "Search By:" with "Publisher" selected, and "Name:" with "Rockstar Games" selected. A "Run Query" button is positioned below these dropdowns. The results are displayed in a table with four columns: "Game Name", "Genre", and "Attribute Value". The table contains six rows of data, numbered 1 to 6 in the first column. At the bottom of the window, there is a "Back" button.

	Game Name	Genre	Attribute Value
1	12	Asteroids	1981-01-01
2	44	Doom II	1994-09-30
3	1	007: Tomorrow Never Dies	1999-11-16
4	95	James Bond 007: Agent Under Fire	2001-11-13
5	118	Max Payne	2001-12-06
6	119	Medal of Honor: Frontline	2002-05-28

4 List all games released after certain year, along with their support system and the producers who made them

query attributes: year

results: id name support\_platform publisher developer

```
SELECT G.Name,  
       G.ReleaseDate,  
       PF.PlatformName,  
       D.DeveloperName,  
       P.PublisherName  
FROM Games AS G  
INNER JOIN Platform_Support_Games AS PSG  
  ON G.GameID = PSG.GameID  
INNER JOIN Platform AS PF  
  ON PSG.PlatformID = PF.PlatformID  
INNER JOIN Developer_Games AS DG  
  ON G.GameID = DG.GameID  
INNER JOIN Developer AS D  
  ON DG.DeveloperID = D.DeveloperID  
INNER JOIN Publisher_Games AS PG  
  ON G.GameID = PG.GameID  
INNER JOIN Publisher AS P  
  ON PG.PublisherID = P.PublisherID  
WHERE G.ReleaseDate >= {Year}  
ORDER BY G.ReleaseDate ASC
```

Game Queries

Choose a game-related query:

4. List all games released after certain year, along with their support system and the producers who made them

Year: 2010

Run Query

	Game Name	Release Year	Platform	Developer	Publisher
1	Mass Effect 2	2010-01-26	X360	BioWare	Electronic Arts
2	Battlefield: Bad Company 2	2010-03-02	PS3	Electronic Arts	Electronic Arts
3	Battlefield: Bad Company 2	2010-03-02	X360	Electronic Arts	Electronic Arts
4	Final Fantasy XIII	2010-03-09	PS3	Square Enix	Square Enix
5	Halo: Reach	2010-09-14	X360	Bungie	Microsoft Game Studios
6	Sports Champions	2010-09-17	PS3	SCE San Diego Studio	Sony Interactive Entertainm

Back

5 List average ratings/ total units sold of each genre, ordered by them in descending order  
query attributes: average\_rating/ total\_units  
results: genre average\_rating

```
SELECT G.Genre,  
       AVG(PPGP.Rating) AS AverageRating  
FROM Games AS G  
INNER JOIN Player_Platform_Games_Play AS PPGP  
  ON G.GameID = PPGP.GameID  
WHERE G.Genre IS NOT NULL  
GROUP BY G.Genre  
ORDER BY AverageRating DESC
```

or

```
SELECT Genre,  
       SUM(UnitsSold) AS TotalUnitsSold  
FROM Games  
WHERE Genre IS NOT NULL  
GROUP BY Genre  
ORDER BY TotalUnitsSold DESC
```

Game Queries

Choose a game-related query:

5. List average ratings / total units sold of each genre, ordered by them in descending order

Type: Rating

Run Query

	Genre	Average Rating
1	Puzzle	7.0000
2	Simulation	6.0588
3	Action	6.0350
4	Platform	6.0000
5	Adventure	5.8621
6	Misc	5.7458
7	Shooter	5.7106

Back

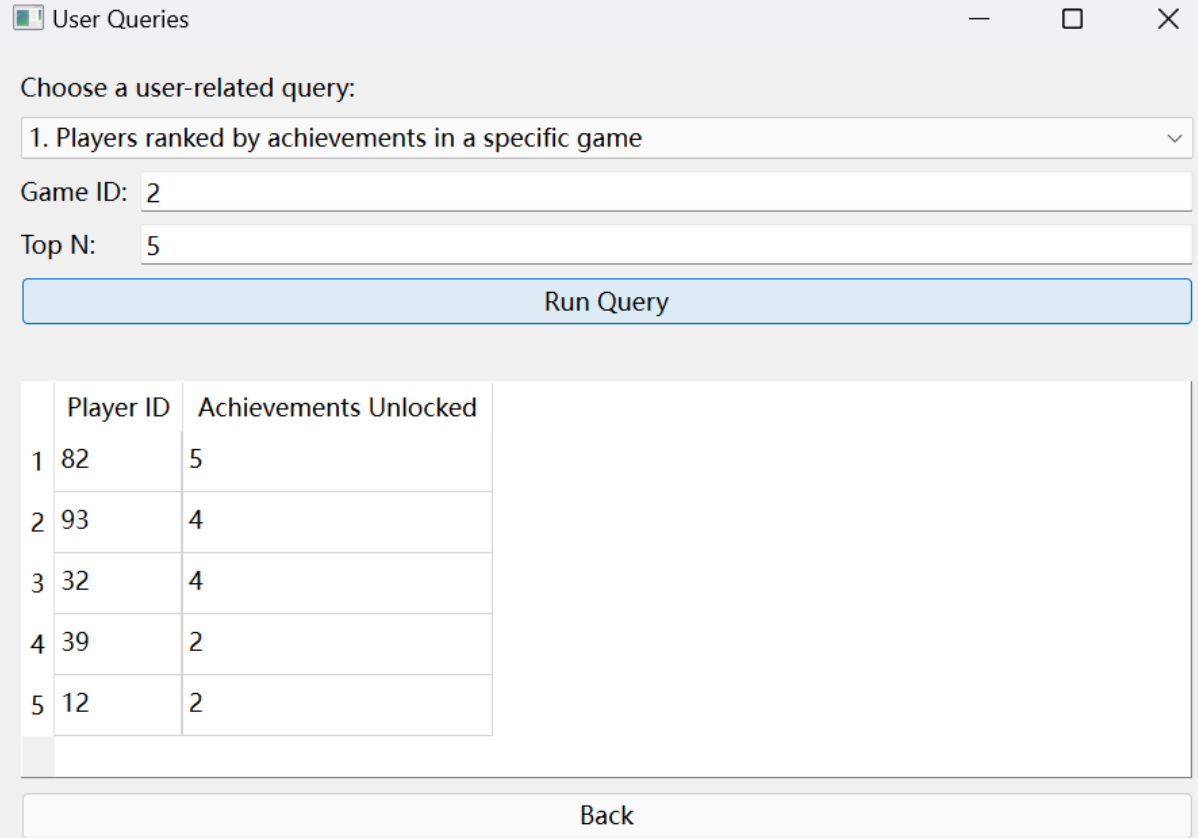
## Users

1 For a given game, list all players sorted by the number of achievements they have unlocked in that game, from most to least

query attributes: game\_id top n

results: user\_id

```
SELECT PlayerID, COUNT(*) AS AchievementsUnlocked
FROM Player_Unlock_Achievement
WHERE GameID = %s
GROUP BY PlayerID
ORDER BY AchievementsUnlocked DESC
LIMIT %s;
```

A window titled "User Queries" with standard window controls (minimize, maximize, close). It contains a dropdown menu for selecting a query, input fields for "Game ID" and "Top N", a "Run Query" button, a table of results, and a "Back" button at the bottom.

Choose a user-related query:

1. Players ranked by achievements in a specific game

Game ID: 2

Top N: 5

Run Query

	Player ID	Achievements Unlocked
1	82	5
2	93	4
3	32	4
4	39	2
5	12	2

Back

2 Find the top N players with the highest total playtime of certain specific game across all platforms.

query attributes: game\_id top n

results: user\_id ...

```
SELECT P.UserName, SUM(PPGP.TotalPlayingTime) AS TotalTime
FROM Player_Platform_Games_Play PPGP
JOIN Player P ON PPGP.PlayerID = P.UserID
WHERE PPGP.GameID = %s
GROUP BY P.UserID, P.UserName
ORDER BY TotalTime DESC
LIMIT %s;
```

User Queries

Choose a user-related query:

2. Top N players by playtime of a game

Game ID: 3

Top N: 4

Run Query

	Player Name	Total Playtime (hrs)
1	laura01	228.00
2	raymond28	187.00
3	robert11	142.00
4	nfloyd	61.00

Back



3 Display the total amount of money a specific player has spent across all platforms

query attributes: user\_id top n

results: total amount of money

```
SELECT SUM(PurchasePrice) AS TotalSpent
FROM Player_Platform_Games_Play
WHERE PlayerID = %s;
```

User Queries

Choose a user-related query:

3. Total money spent by a player

User ID: 100

Run Query

	Total Spent (\$)
1	258.00

Back

4 List all games a player has purchased, including the platform, price at time of purchase, and transaction time.

query attributes: user\_id top n

results: game info

```
SELECT G.Name AS GameName, PF.PlatformName, PPGP.PurchasePrice,  
PPGP.PurchaseTime  
FROM Player_Platform_Games_Play AS PPGP  
JOIN Games G ON G.GameID = PPGP.GameID  
JOIN Platform PF ON PF.PlatformID = PPGP.PlatformID  
WHERE PPGP.PlayerID = %s  
ORDER BY PPGP.PurchaseTime DESC;
```

User Queries

Choose a user-related query:

4. All purchases of a player

User ID: 6

Run Query

	Game	Platform	Price (\$)	Purchase Time
1	Assassin's Creed Syndicate	PS4	9.08	2025-02-06 00:00:00
2	Tomb Raider III: Adventures of Lara Croft	PS	44.68	2024-12-05 00:00:00
3	Tom Clancy's Rainbow Six: Siege	PS4	22.93	2024-09-25 00:00:00
4	Call of Duty: Black Ops II	PS3	44.59	2024-07-01 00:00:00
5	Minecraft	PS4	33.47	2024-06-01 00:00:00
6	The Simpsons: Road Rage	PS2	26.18	2024-05-14 00:00:00

Back

### 5. List friends with mutual time above threshold

```
SELECT p2.UserID, p2.UserName, p2.Email, p2.Region, pf.MutualTime
FROM Player_Friends pf
JOIN Player p2 ON pf.Player2ID = p2.UserID
WHERE pf.Player1ID = %s AND pf.MutualTime >= %s;
```

User Queries

Choose a user-related query:

5. List friends with mutual time above threshold

User ID: 6

Mutual Time  $\geq$  : 300

Run Query

	Friend ID	Name	Email	Region	Mutual Time (min)
1	8	jasonmcbride	aliciahernandez@wilson.com	AF	1384

Back

## Developer/ Publisher

1 List revenues of all the developers/publishers during a certain time period.

query attributes: years top n

results: revenues

```
def q_dev_pub_revenues(cursorObject, role, start_year, end_year, top_n):
    if role == "Developer":
        query = """
            SELECT D.DeveloperName, SUM(G.UnitsSold * PSG.Price) AS TotalRevenue
            FROM Games G
            INNER JOIN Developer_Games DG ON G.GameID = DG.GameID
            INNER JOIN Developer D ON DG.DeveloperID = D.DeveloperID
            INNER JOIN Platform_Support_Games PSG ON G.GameID = PSG.GameID
            WHERE DG.DevelopeFinishYear BETWEEN %s AND %s
            GROUP BY D.DeveloperID
            ORDER BY TotalRevenue DESC
            LIMIT %s
        """
    elif role == "Publisher":
        query = """
            SELECT P.PublisherName, SUM(G.UnitsSold * PSG.Price) AS TotalRevenue
            FROM Games G
            INNER JOIN Publisher_Games PG ON G.GameID = PG.GameID
            INNER JOIN Publisher P ON PG.PublisherID = P.PublisherID
            INNER JOIN Platform_Support_Games PSG ON G.GameID = PSG.GameID
            WHERE PG.PublishYear BETWEEN %s AND %s
            GROUP BY P.PublisherID
            ORDER BY TotalRevenue DESC
            LIMIT %s
        """
    else:
        return []
```

Developer / Publisher Queries

—□×

Choose a developer or publisher query:

1. List top N developers/publishers by revenue during a time period

▼

Role:

Developer

▼

Start Year:

2000

End Year:

2015

Top N:

4

Run Query

	Name	Total Revenue
1	Electronic Arts	213271.25
2	Rockstar Games	205145.17
3	Infinity Ward	128202.72
4	Treyarch	113576.25

Back

2 the number of games rated over n developed by any publisher/developer .

query attributes: rating threshold

results: the numbers of games

```
def q_dev_pub_rating(cursorObject, role, rating_threshold):
    if role == "Developer":
        query = """
            SELECT D.DeveloperName, COUNT(DISTINCT G.GameID) AS HighRatedGames
            FROM Games G
            INNER JOIN Developer_Games DG ON G.GameID = DG.GameID
            INNER JOIN Developer D ON DG.DeveloperID = D.DeveloperID
            INNER JOIN Player_Platform_Games_Play PPGP ON G.GameID = PPGP.GameID
            WHERE PPGP.Rating > %s
            GROUP BY D.DeveloperID
            ORDER BY HighRatedGames DESC
        """
    elif role == "Publisher":
        query = """
            SELECT P.PublisherName, COUNT(DISTINCT G.GameID) AS HighRatedGames
            FROM Games G
            INNER JOIN Publisher_Games PG ON G.GameID = PG.GameID
            INNER JOIN Publisher P ON PG.PublisherID = P.PublisherID
            INNER JOIN Player_Platform_Games_Play PPGP ON G.GameID = PPGP.GameID
            WHERE PPGP.Rating > %s
            GROUP BY P.PublisherID
            ORDER BY HighRatedGames DESC
        """
    else:
        return []
```

Developer / Publisher Queries

Choose a developer or publisher query:  
2. List developers/publishers by number of high-rated games

Role: Developer

Rating Threshold: 5

Run Query

	Name	High Rated Games
1	Electronic Arts	32
2	Ubisoft	21
3	Rockstar Games	8
4	Treyarch	7
5	Neversoft Entertainment	6
6	Bethesda Game Studios	5

Back

3 the number of games that are compatible on over n platforms developed by any publisher/developer.

query attributes: platform compatibility threshold

results: the numbers of games

```
def q_dev_pub_compatibility(cursorObject, role, platform_threshold):
    if role == "Developer":
        query = """
            SELECT D.DeveloperName, COUNT(*) AS GameCount
            FROM (
                SELECT G.GameID, COUNT(DISTINCT PSG.PlatformID) AS PlatformCount
                FROM Games G
                INNER JOIN Platform_Support_Games PSG ON G.GameID = PSG.GameID
                GROUP BY G.GameID
                HAVING PlatformCount > %s
            ) AS CompatibleGames
            INNER JOIN Developer_Games DG ON CompatibleGames.GameID = DG.GameID
            INNER JOIN Developer D ON DG.DeveloperID = D.DeveloperID
            GROUP BY D.DeveloperID
            ORDER BY GameCount DESC
        """
    elif role == "Publisher":
        query = """
            SELECT P.PublisherName, COUNT(*) AS GameCount
            FROM (
                SELECT G.GameID, COUNT(DISTINCT PSG.PlatformID) AS PlatformCount
                FROM Games G
                INNER JOIN Platform_Support_Games PSG ON G.GameID = PSG.GameID
                GROUP BY G.GameID
                HAVING PlatformCount > %s
            ) AS CompatibleGames
            INNER JOIN Publisher_Games PG ON CompatibleGames.GameID = PG.GameID
            INNER JOIN Publisher P ON PG.PublisherID = P.PublisherID
            GROUP BY P.PublisherID
            ORDER BY GameCount DESC
        """
    else:
        return []
```

Developer / Publisher Queries

Choose a developer or publisher query:

3. List developers/publishers by number of platform-compatible games

Role: 

Developer

Min Platform Count: 

2

Run Query

	Name	Platform Count
1	Electronic Arts	2
2	Ubisoft	1
3	High Moon Studios	1
4	Sledgehammer Games	1
5	Infinity Ward	1
6	Rockstar Games	1

Back



## Platform

1. Find games that are exclusive to a certain platform.

Query attributes: platform

Results: Exclusive game title

```
def q_platform_exclusive_games(cursorObject, platform_name):  
    sql = """  
        SELECT g.Name  
        FROM Games g  
        JOIN Platform_Support_Games p ON g.GameID = p.GameID  
        JOIN Platform pf ON pf.PlatformID = p.PlatformID  
        WHERE pf.PlatformName = %s  
        AND g.GameID NOT IN (  
            SELECT p2.GameID  
            FROM Platform_Support_Games p2  
            JOIN Platform pf2 ON p2.PlatformID = pf2.PlatformID  
            WHERE pf2.PlatformName != %s  
        )  
        LIMIT 20;  
    """
```

Platform Queries

Choose a platform-related query:  
1. Find all games exclusive to a platform

Platform: PS3

Run Query

	Exclusive Game Title
1	Battlefield 3
2	FIFA Soccer 10
3	Final Fantasy XIII
4	L.A. Noire
5	LittleBigPlanet 2
6	Resident Evil 6
7	Sports Champions

Back

2. List revenues of all certain platforms during a certain time period.

Query attributes: Platform, Year

Results: Estimated revenue

```
def q_platform_revenue(cursorObject, platform_name, year):  
    sql = """  
        SELECT SUM(g.UnitsSold * psg.Price) AS EstimatedRevenue  
        FROM Platform_Support_Games psg  
        JOIN Platform pf ON pf.PlatformID = psg.PlatformID  
        JOIN Games g ON psg.GameID = g.GameID  
        WHERE pf.PlatformName = %s AND YEAR(psg.IssuedTime) = %s;  
    """
```

Platform Queries

Choose a platform-related query:  
2. List revenue of a platform during a year

Platform: PS3

Year: 2022

Run Query

	Estimated Revenue
1	15560.10

Back

3. The number of users spent more than n hours on a certain platform.

Query attributes: Platform, Hours threshold

Results: The numbers of users

```
def q_platform_user(cursorObject, platform_name, min_hours):  
    sql = """  
        SELECT COUNT(*)  
        FROM Player_Use_Platform pup  
        JOIN Platform pf ON pf.PlatformID = pup.PlatformID  
        WHERE pf.PlatformName = %s AND pup.TotalTimeSpent >= %s;  
    """
```

Platform Queries

Choose a platform-related query:  
3. Number of users who spent more than X hours on a platform  
Platform: PS3  
Hours: 120  
Run Query

	Users Played > Hours
1	13

Back

## Some Insert Examples

### Insert User

Update Dataset

—

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Insert data into a table below:

Choose a table to insert into:

Player

UserName:

Email:

Region:

JoinDate:

Level:

TotalPlayTime:

GamesOwned:

Insert Record

Show Last Record

☒ Inserted into Player successfully with ID 101.

Back

## Insert Game

Update Dataset

— □ ×

Insert data into a table below:  
Choose a table to insert into:

Games ▾

Name:

Description:

ReleaseDate:

LanguageSupport:

Genre:

RequireAge:

Tags:

UnitsSold:

Insert Record

Show Last Record

Back

Update Dataset

Insert data into a table below:  
Choose a table to insert into:

Games

Last Inserted Record

i

(206, 'World Soccer Winning Eleven 9', 'Experience the thrill of soccer with realistic gameplay and advanced AI in World Soccer Winning Eleven 9. Compete against top teams from around the world and customize your tactics to lead your team to victory. Master the art of passing, shooting, and defending in this action-packed sports game.', datetime.date(2006, 2, 7), 'Chinese, French, German, Japanese, Spanish', 'Sports', 10, 'First-Person Shooter, Third-Person, Turn-based Combat', 105)

OK

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Insert/Update **Player-Platform-Games-Play**

Update Dataset

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Insert data into a table below:  
Choose a table to insert into:

Player\_Platform\_Games\_Play

GamelD:

2

PlatformID:

5

PlayerID:

5

TotalPlayingTime:

100

LastPlayTime:

2025-05-26

PurchaseTime:

2025-05-01

PurchasePrice:

10

Review:

/

Rating:

8

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