

SQL Games

By Audrey Checketts

The Problem & Purpose

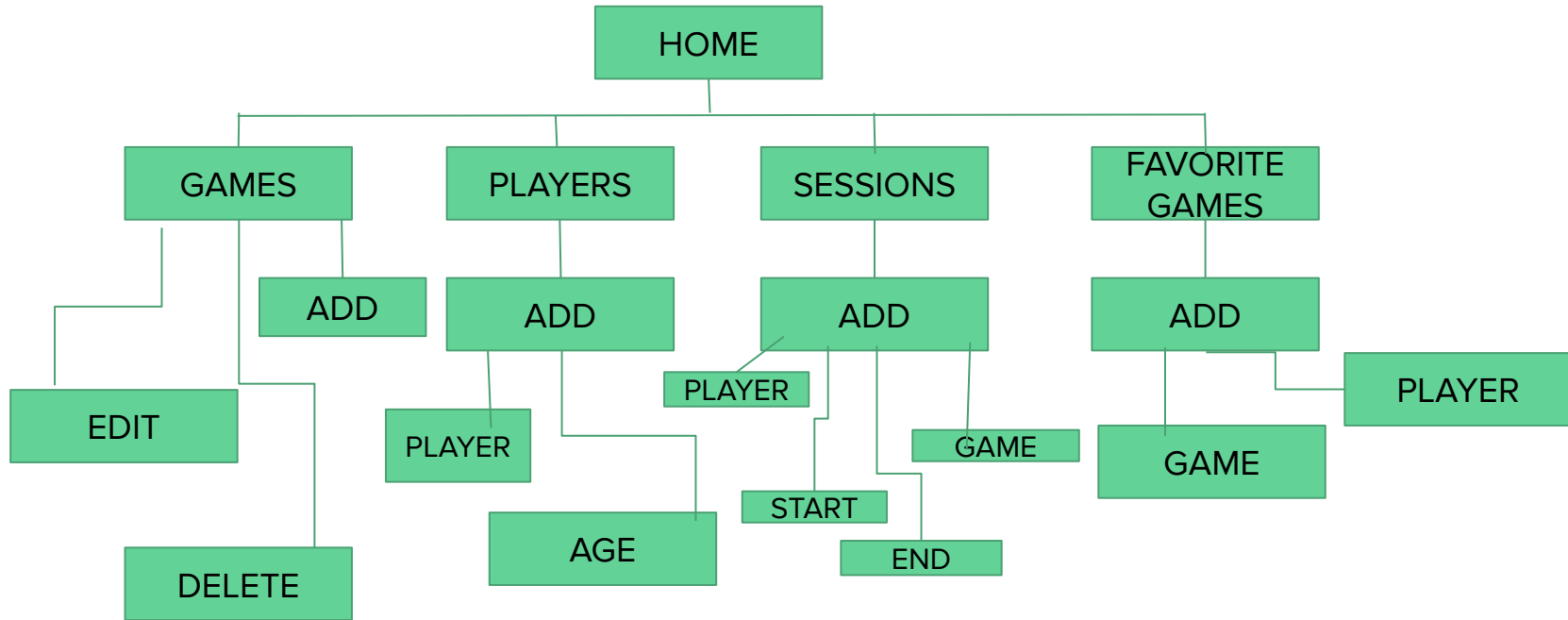
I have so many games. I need to track them all and want to ensure I play them and don't forget about them. I also want a way to track when my family plays them and for how long. Some additional information I want to be able to track:

- videos games
- puzzles
- Include family members interests
- Record play sessions and who is present!

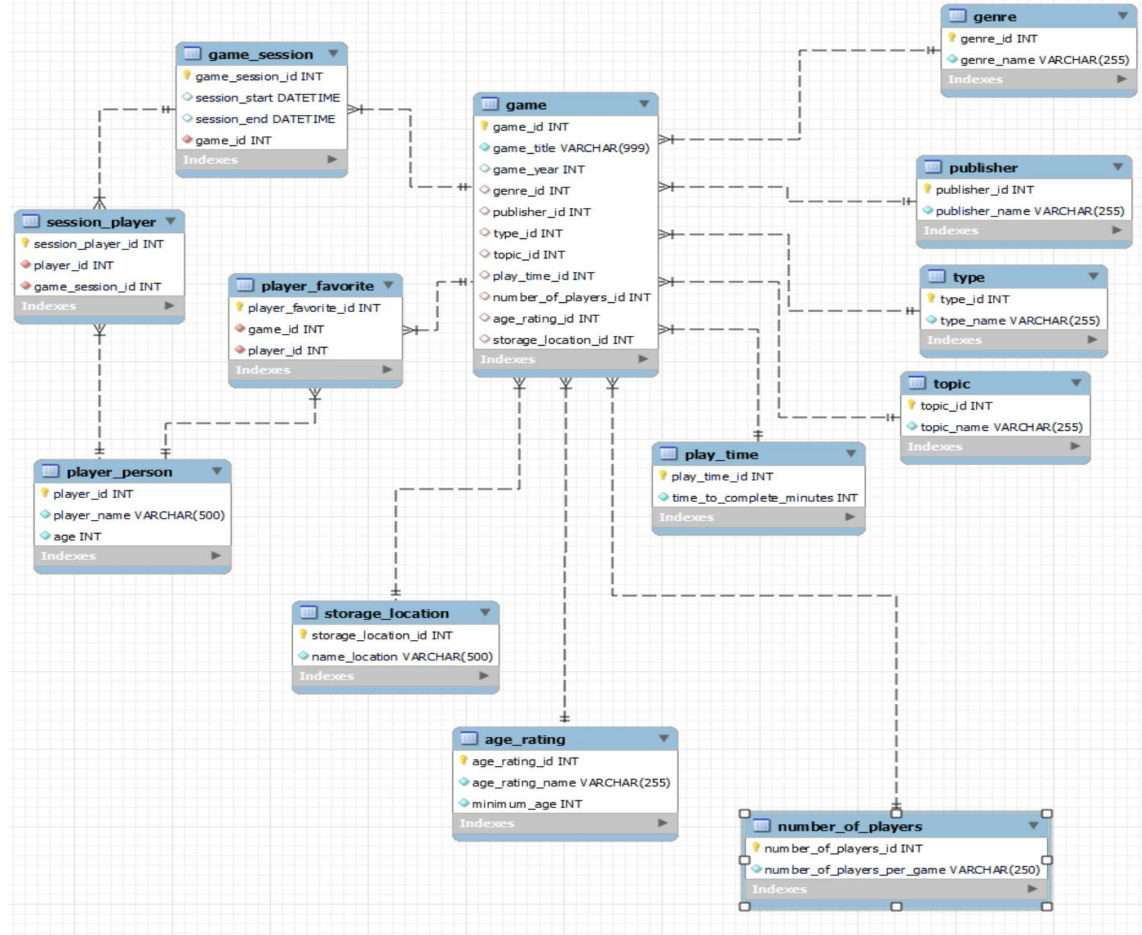
Query goals

- I can enter my game's details into the app
- I can get a listing of games that my 5 year old likes
- I can list cooperative games that 4 players can play
- I can see what games haven't been played this year

Site Map

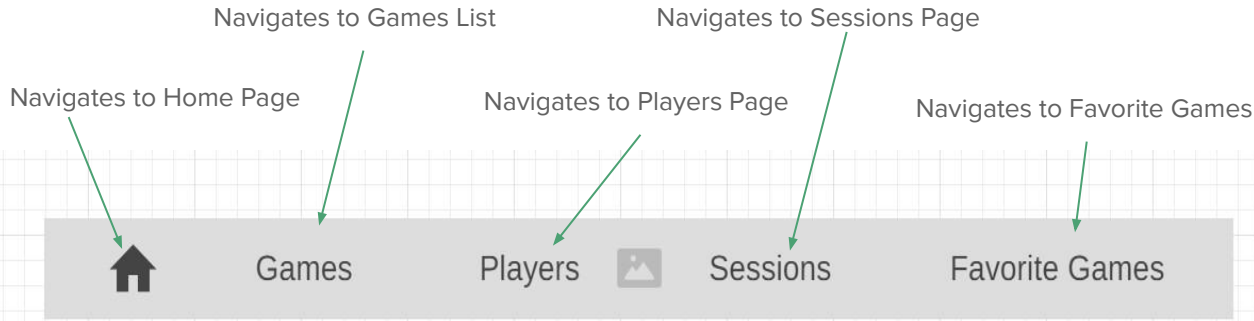


ERD



UI for Admin

- Following is the Admin UI
 - Add, Edit, Delete and Display lists for all the admin tables
 - These are used in the searches and connecting of the other tables

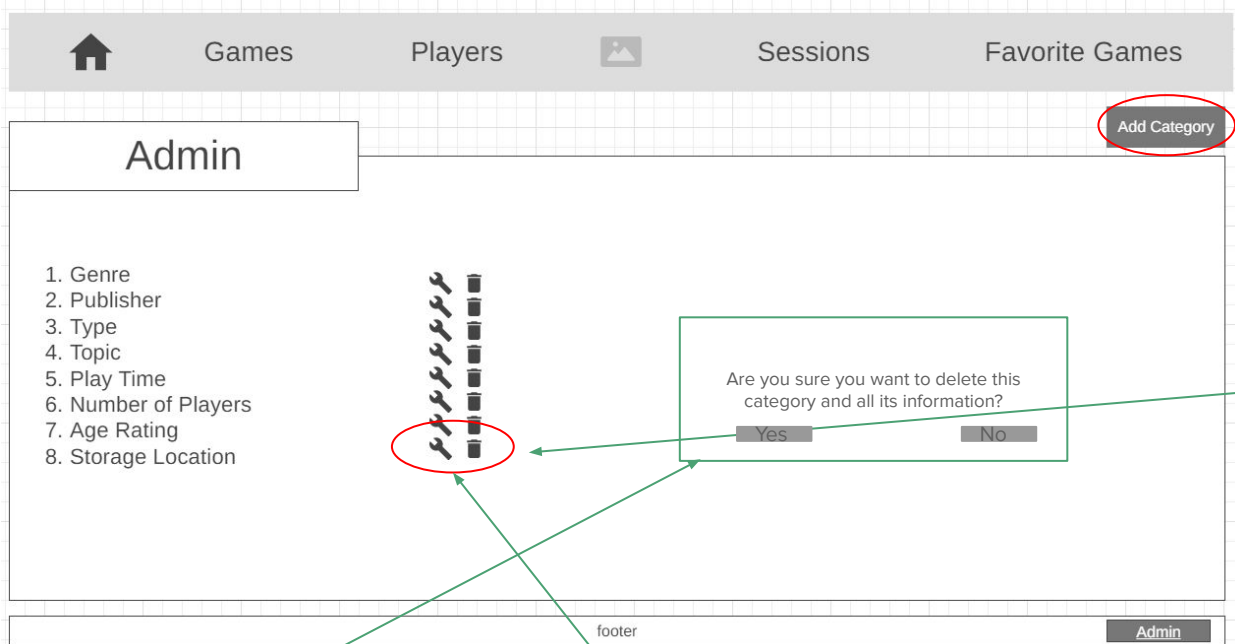


Welcome to your Gamer's Guild!

Total Number of Games: 29



Admin button that goes to the pages to input, update & delete information about games.



Here is the admin page where you can click to add new category if need.

Then you can choose to edit or delete the other categories.

The following slides for Admin will show the category pages.

Delete will create a pop up window and ask if you want to delete the category.

Edit will take you to the new page where you can edit the information.

Creating Tables (Categories):

- The following slides are how I created my tables to be able to populate my data in my UI, etc
- I started by creating each table in my schema: gamers_guild
 - CREATE TABLE IF NOT EXISTS publisher (
 - publisher_id INT AUTO_INCREMENT PRIMARY KEY,
 - publisher_name VARCHAR(255) NOT NULL
 -) ENGINE=INNODB;
 - This helped so I wouldn't create duplicate tables.

- Then tables with foreign keys:
 - CREATE TABLE IF NOT EXISTS session_player (
 - session_player_id INT AUTO_INCREMENT PRIMARY KEY,
 - player_id INT NOT NULL,
 - game_session_id INT NOT NULL,
 - FOREIGN KEY (player_id) REFERENCES player_person (player_id),
 - FOREIGN KEY (game_session_id) REFERENCES game_session (game_session_id)
 -);
 - As Admin...



Games

Players



Sessions

Favorite Games

Genre

1. Board Game
2. Card Game
3. Dice Game
4. Puzzle
5. Role Playing Game
6. Video Game
7. Outdoor Game
8. ... etc



Add, Edit & Delete window

Add Genre

footer

Admin

Add

genre

Save

Edit

genre

Save

Are you sure you want to delete this genre
and all its information?

Yes

No

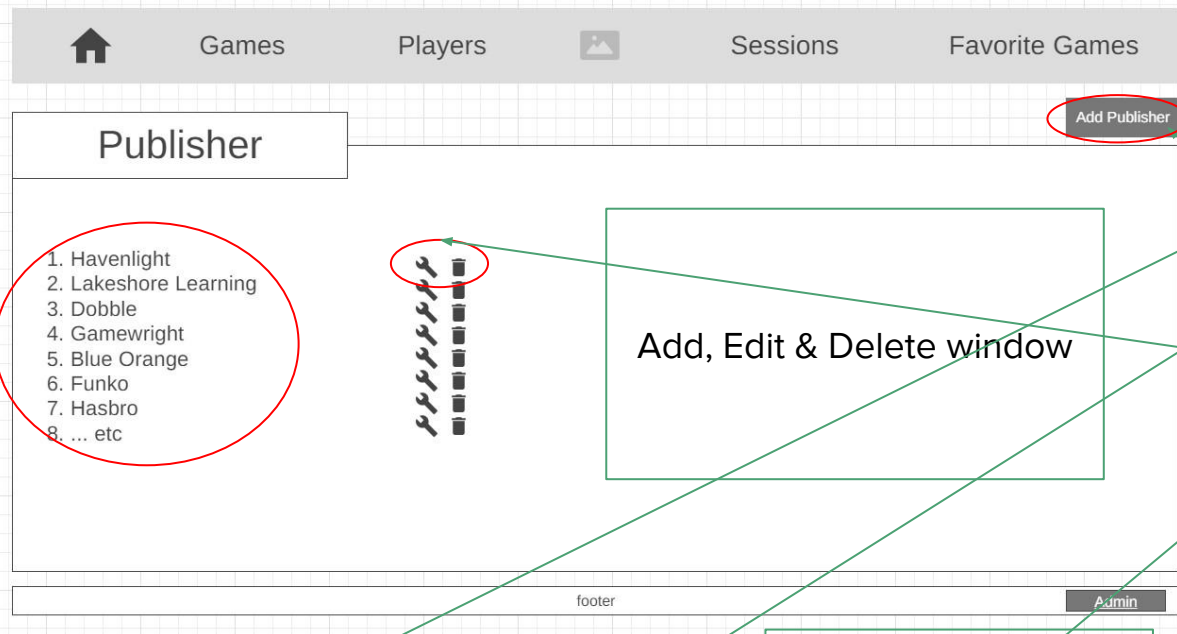
CRUD for genre table:

-INSERT INTO genre (genre_id, genre_name)
VALUES (1, 'Board Game');

-UPDATE genre SET genre_name = 'Card Game'
WHERE genre_name = 'Card Games';

-DELETE FROM genre WHERE genre_name = 'Car
Game';

-SELECT genre_id, genre_name FROM genre;



CRUD for publisher table:

-INSERT INTO publisher (publisher_id, publisher_name) VALUES (1, 'Havenlight');

-UPDATE publisher SET publisher_name = 'Funko' WHERE publisher_name = 'Funko';

-DELETE FROM publisher WHERE publisher_name = 'Beech Works';

-SELECT publisher_id, publisher_name FROM publisher;

Add

publisher

Save

Edit

publisher

Save

Are you sure you want to delete this publisher and all its information?

Yes

No

Home Games Players Sessions Favorite Games

Type

1. Single-Player
2. Multi-Player Cooperative
3. Multi-Player Competitive
4. Solitary Player
5. ...etc

Add, Edit & Delete window

Add Type

footer Admin

Add

publisher

Save

Edit

publisher

Save

Are you sure you want to delete this type and all its information?

Yes No

CRUD for type table:

-INSERT INTO type (type_id, type_name) VALUES (1, 'Single Player');

-UPDATE type SET type_name = 'Multi-Player Competitive' WHERE type_name = 'Multi-Player';

-DELETE FROM type WHERE type_name = 'Solitary Player';

-SELECT type_name FROM type;

Home Games Players Sessions Favorite Games

Topic

1. Educational
2. Entertainment
3. Travel
4. ...etc

Add, Edit & Delete window

footer Admin

CRUD for topic table:

-INSERT INTO topic (topic_id, topic_name) VALUES (1, 'Learning');

-UPDATE topic SET topic_name = 'Educational' WHERE topic_name = 'Learning';

-DELETE FROM topic WHERE topic_name = 'Travel';

-SELECT topic_id, topic_name FROM topic;

Add

publisher

Save

Edit

publisher

Save


Are you sure you want to delete this topic and all its information?

Yes

No

Play Time in Minutes

- 120
- 10
- 20
- 30
- 40
- 50
- 60
- ... etc



Add, Edit & Delete window

Add Play Time

Admin

footer

CRUD for play time table:

-INSERT INTO play_time (play_time_id, time_to_complete_minutes) VALUES (1, '120');

-UPDATE play_time SET time_to_complete_minutes = '90' WHERE time_to_complete_minutes = '70';

-DELETE FROM play_time WHERE time_to_complete_minutes = '120';

-SELECT play_time_id, time_to_complete_minutes FROM play_time;

Add

publisher

Save

Edit

publisher

Save

Are you sure you want to delete this and all its information?

Yes No



Games

Players



Sessions

Favorite Games

Number of Players

1. 2
2. 2-4
3. 1
4. 2-5
5. 2-8
6. 3-8
7. 12
8. ... etc



Add, Edit & Delete window

Add Player #

-INSERT INTO number_of_players
(number_of_players_id,
number_of_players_per_game) VALUES (1, '1');

-UPDATE number_of_players SET
number_of_players_per_game = '3-6' WHERE
number_of_players_per_game = '4-6';

-DELETE FROM number_of_players WHERE
number_of_players_per_game = '12';

-SELECT number_of_players_id,
number_of_players_per_game FROM
number_of_players;

footer

Admin

Add

publisher

Save

Edit

publisher

Save

Are you sure you want to delete this and
all its information?

Yes

No

CRUD for number of players table:

Games Players Sessions Favorite Games

Age Rating

Title	Minimum Age
1. Everyone	0
2. Everyone 10+	10
3. Teens	14
4. Adults Only	18
5. Mature	16
6. Rating Pending	-
7. ... etc	

Add Age

Add, Edit & Delete window

footer Admin

CRUD for age rating table:

-INSERT INTO age_rating (age_rating_id, age_rating_name, minimum_age) VALUES (1, 'Everyone', 0);

-UPDATE age_rating SET age_rating_name = 'Teen' WHERE age_rating_name = 'Teens';

-DELETE FROM age_rating WHERE age_rating_name = 'Rating Pending';

-SELECT age_rating_name, minimum_age FROM age_rating ORDER BY minimum_age;

Add

publisher

Save

Edit

publisher

Save

Are you sure you want to delete this age rating and all its information?

Yes No

Storage Location

1. Downstairs Shelves

2. Upstairs Shelves

3. Garage

4. Storage Room

5. Steam Deck

6. Nintendo Switch

7. Computer

8. ... etc

Add, Edit & Delete window

Add Location

Admin

CRUD for storage location table:

- INSERT INTO storage_location (storage_location_id, name_location) VALUES (1, 'Downstairs Shelves');
- UPDATE storage_location SET name_location = 'Kitchen Table Shelves' WHERE name_location = 'Upstairs Shelves';
- DELETE FROM storage_location WHERE name_location = 'Downstairs Laundry Room';
- SELECT storage_location_id, name_location FROM storage_location ORDER BY name_location;

Add

publisher

Save

Edit

publisher

Save

Are you sure you want to delete this location and all its information?

Yes

No

Now the UI for inputting Games, etc

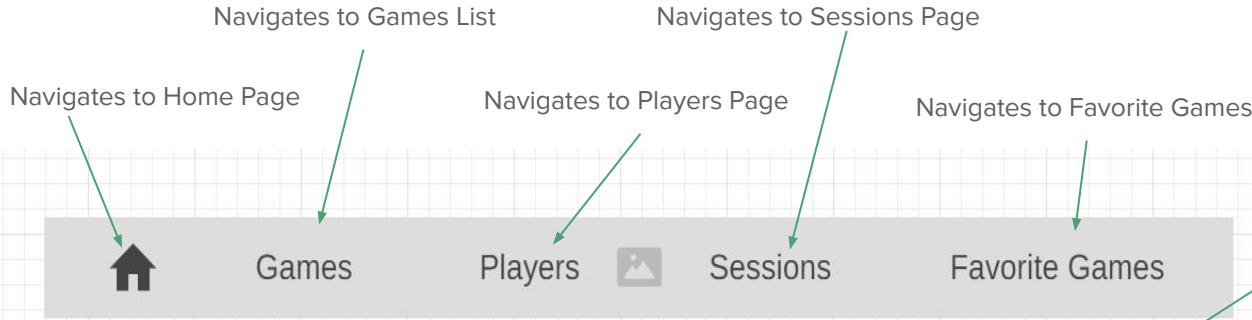
- Here is how I was able to use all of the tables and the information I created into a usable (outside of the Admin) UI.

Home

- Games
 - Publishers
 - Type (Board game, Video Game, Puzzle)
 - Genre (Competitive, Cooperative, Solo)
 - Topic (Educational, Entertainment, Memory)
- Family members
 - Favorites
 - Ages
- Play sessions
 - Dates
 - Game played
 - People included
- Total Count of Games in Database

Tells Number of Games in Game Table:

```
SELECT  
  COUNT(game_title)  
FROM  
  game;
```



Welcome to your Gamer's Guild!

Total Number of Games: 29

footer

Games

- **ADD**
 - A button you can click on that allows you to add games with their information.
- **EDIT**
 - If you messed up spelling a name or the wrong publisher, etc you can click the edit button and update the information.
- **DELETE**
 - When you click the trash can, you can delete a game that you no longer have, use, or give away.

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Game List

Add Game

Title	Year	Genre	Publisher	Type	Topic	Play Time	Number of Players	Age Rating	Storage Location
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footer

Title	Year	Genre
Publisher	Type	Topic
Play Time	Number of Players	Age Rating
Storage Location		









Save Game

Here is where you can add games:

You would type the information into a separate window pop up and fill out the information.

Then when finished click the add game button on pop up window and it will appear in master list.

```
INSERT INTO game
    (game_id, game_title,
    game_year, genre_id, publisher_id,
    type_id, topic_id, play_time_id,
    number_of_players_id, age_rating_id,
    storage_location_id)
VALUES
    (1, 'The Light Rested Upon Me
    by Dan Burr', NULL, 4, 1, 3, 2, 8, 5, 1, 2);
    etc....
```

Home Games Players Sessions Favorite Games										
Game List										
Title	Year	Genre	Publisher	Type	Topic	Play Time	Number of Players	Age Rating	Storage Location	
Lorem ipsum dolor sit amet et delectus accommodare his consul copiosae legendos at vix ad putent delectus delicata usu. Vedit										 
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footer										

All the games would be queried and displayed here on the game list page.

```

SELECT
    ga.game_title AS 'Title',
    ga.game_year AS 'Year',
    ge.genre_name AS 'Genre',
    p.publisher_name AS 'Publisher',
    ty.type_name AS 'Type',
    top.topic_name AS 'Topic',
    pt.time_to_complete_minutes AS 'Play Time',
    n.number_of_players_per_game AS 'Number of Players',
    ar.age_rating_name AS 'Age Rating',
    st.name_location AS 'Storage Location'
FROM
    game ga
    LEFT JOIN
        genre ge ON ga.genre_id = ge.genre_id
    LEFT JOIN
        publisher p ON p.publisher_id = ga.publisher_id
    LEFT JOIN
        type ty ON ty.type_id = ga.type_id
    LEFT JOIN
        topic top ON top.topic_id = ga.topic_id
    LEFT JOIN
        play_time pt ON pt.play_time_id =
            ga.play_time_id
    LEFT JOIN
        number_of_players n ON n.number_of_players_id =
            ga.number_of_players_id
    LEFT JOIN
        age_rating ar ON ar.age_rating_id = ga.age_rating_id
    LEFT JOIN
        storage_location st ON st.storage_location_id =
            ga.storage_location_id
ORDER BY game_title;

```

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Game List

[Add Game](#)

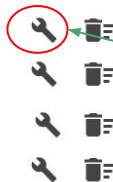
Title	Year	Genre	Publisher	Type	Topic	Play Time	Number of Players	Age Rating	Storage Location
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footer

Was entered in like this: 'LIFE', '2010', 'Board Game', 'Hasbro', 'Multi-Player Competitive', 'Entertainment', '50', '2-4', 'Everyone 10+', 'Toy Room'

Then edited to this: 'LIFE Adventures Edition', '2010', 'Board Game', 'Hasbro', 'Multi-Player Competitive', 'Entertainment', '50', '2-4', 'Everyone 10+', 'Toy Room'

This is where you can edit the game's information (with pop up table):

UPDATE game
SET
 game_title = 'LIFE
Adventures Edition'
WHERE
 game_title = 'LIFE';

Save Edit button

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>		
<input type="button" value="Save Edit"/>		

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Game List

[Add Game](#)

Title	Year	Genre	Publisher	Type	Topic	Play Time	Number of Players	Age Rating	Storage Location
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footer

This is where you can delete game, like when you decide you don't like it or DI it or missing pieces you can't find:

```
DELETE FROM game
WHERE
  game_title =
'Monopoly';
```

A pop-up would say, “Are you sure you want to delete this game and all its information?” Then you would click, “Yes” or “No” and the game would disappear from list.

Are you sure you want to delete this game and all its information?

Yes

No

Players

- Family Members & Friends
 - Here is a place to keep track of everyone playing the games.
- Ages
 - Ages of each member to know what games are appropriate for them to play.

Games Players Sessions Favorite Games

Players

Add Player

Player Information

	<u>Name</u>	<u>Age</u>	
1.	Adam	35	 
2.	Benjamin	34	 
3.	Caleb	32	 
4.	Daniel	30	 
5.	Ephraim	28	 

footer

When you click the player add button, it opens a window to the left side. Then you type in your information and click the save player button. That inserts the information into the table.

How info inserted using SQL:

```
INSERT INTO player_person (player_name, age)
VALUES ('Adam', 35);
```

```
INSERT INTO player_person (player_name, age)
VALUES ('Benjamin', 34);
```

```
INSERT INTO player_person (player_name, age)
VALUES ('Caleb', 32);
```

```
INSERT INTO player_person (player_name, age)
VALUES ('Daniel', 30);
```

```
INSERT INTO player_person (player_name, age)
VALUES ('Ephraim', 28);
```

```
INSERT INTO player_person (player_name, age)
VALUES ('Kolob', 15);
```

 Games Players  Sessions Favorite Games

Player Information


Kolob

15

Save Player

Players



Add Player

	<u>Name</u>	<u>Age</u>	
1.	Adam	35	
2.	Benjamin	34	
3.	Caleb	32	
4.	Daniel	30	
5.	Ephraim	28	
...	
12.	Kolob	15	

footer








How list read after values inserted:

```
SELECT
  player_name AS 'Name' , age AS 'Age'
FROM
  player_person;
```

 Games Players  Sessions Favorite Games

Players

Add Player

	<u>Name</u>	<u>Age</u>	
1.	Adam	35	
2.	Benjamin	34	
3.	Caleb	32	
4.	Daniel	30	
5.	Ephraim	28	
...	
12.	Kadesh	15	

Edit Player

Kadesh

15

Save Player

footer

How info. updated using SQL:

```
UPDATE player_person
SET
    player_name = 'Kadesh'
WHERE
    player_id = 12;
```

When you click the wrench icon, it opens a window to the right side. Then you type in your information and click the save player button. That updates the player's name and age.

Games
 Players
 Sessions Favorite Games

Players

Add Player

	<u>Name</u>	<u>Age</u>	
1.	Adam	35	
2.	Benjamin	34	
3.	Caleb	32	
4.	Daniel	30	
5.	Ephraim	28	
...	
12.	Kadesh	15	...

Are you sure you want to delete this name and all its information?

Yes No

footer

When you click the garbage can icon, it opens a window. It asks if you want to delete the name and all its information. If “yes”, click the “yes” and if “no”, click “no”.

If you do click yes, the information will disappear from the line.

How info. deleted using SQL:

```
DELETE FROM player_person
WHERE
  player_id = 3;
```

(Better to delete using the player_id #, in case of names, etc being the same.)

Games
 Players
 Sessions Favorite Games

Players

Add Player

	<u>Name</u>	<u>Age</u>	
1.	Adam	35	
2.	Benjamin	34	
4.	Daniel	30	
5.	Ephraim	28	
...	
12.	Kadesh	15	...

footer

Play Sessions

- Keeps track of When Game Started
- Keeps track of When the Game Ended
- Keeps track of Who Played the game
 - Also if multiplayer, then that player can be added
- Keeps track of The Game played

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Game Sessions

Player Game # Start Date End Date Title

Add Session

Player

Game #

Start Date

End Date

Title

Save
Session

footer

Add
Session

Inserting values to create play session list:

```
INSERT INTO session_player (player_id,
game_session_id)
VALUES (1, 2);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (5, 3);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (8, 2);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (7, 5);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (8, 5);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (2, 2);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (4, 2);
INSERT INTO session_player (player_id,
game_session_id)
VALUES (12, 1);
```


Reading Session List & Displaying:

Home

Games

Players

Sessions

Favorite Games

Game Sessions



Add Favorite














<u>Player</u>	<u>Game #</u>	<u>Start Date</u>	<u>End Date</u>	<u>Title</u>	
1. Adam	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC	<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>
2. Benjamin	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC	
3. Daniel	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC	
4. Ephraim	3	2023-07-15 20:00:27	2023-07-15 21:35:27	Stardew Valley	
5. Gideon	5	2024-07-05 19:00:27	2024-07-05 20:35:27	The Legend of Zelda: Breath of the Wild	
6. James	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe	
7. Kadesh	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe	

footer

```
SELECT
  pp.player_name,
  gs.game_session_id,
  gs.session_start,
  gs.session_end,
  g.game_title
FROM
  session_player sp
  LEFT JOIN
  player_person pp ON
  sp.player_id = pp.player_id
  LEFT JOIN
  game_session gs ON
  gs.game_session_id =
  sp.game_session_id
  LEFT JOIN
  game g ON g.game_id =
  gs.game_id
ORDER BY player_name;
```

Updating List:

 Games Players  <u>Sessions</u> Favorite Games				
Game Sessions Add Favorite				
<u>Player</u>	<u>Game #</u>	<u>Start Date</u>	<u>End Date</u>	<u>Title</u>
1. Adam	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
2. Benjamin	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
3. Daniel	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
4. Ephraim	3	2023-07-15 20:00:27	2023-07-15 21:35:27	Stardew Valley
5. Gideon	5	2024-07-05 19:00:27	2024-07-05 20:35:27	The Legend of Zelda: Breath of the Wild
6. James	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe
7. Kadesh	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe
5 Millie		2024-...	2024-....	Trigger



footer

UPDATE session_player

SET

game_session_id = 1

WHERE

session_player_id = 3;

UPDATE session_player

SET

player_id = 11

WHERE

session_player_id = 3;

Edit Game Session

Player

Start Date

End Date

Title

Save Session

Deleting Session:

DELETE FROM
session_player

WHERE

session_player_id = 5;

Are you sure you want to delete this name
and all its information?

Yes

No

Game Sessions

Player	Game #	Start Date	End Date	Title
1. Adam	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
2. Benjamin	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
3. Daniel	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
4. Ephraim	3	2023-07-15 20:00:27	2023-07-15 21:35:27	Stardew Valley
5. Gideon	5	2024-07-05 19:00:27	2024-07-05 20:35:27	The Legend of Zelda: Breath of the Wild
6. James	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe
7. Kadesh	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe
5 Millie	2024-...	2024-...	2024-...	Trigger

Game Sessions

Player	Game #	Start Date	End Date	Title
1. Adam	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
2. Benjamin	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
3. Daniel	2	2023-05-10 18:30:22	2023-05-10 19:30:27	PANDEMIC
4. Ephraim	3	2023-07-15 20:00:27	2023-07-15 21:35:27	Stardew Valley
5. Gideon	5	2024-07-05 19:00:27	2024-07-05 20:35:27	The Legend of Zelda: Breath of the Wild
6. James	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe
7. Kadesh	1	2019-07-10 20:00:27	2019-07-10 20:35:27	Chess, Checkers, Tic Tac Toe

Favorite Games

- A way to see what family members and friends love playing the most
 - Especially the youngest
- Follows the same format as previous pages

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Favorite Games

GamePlayer

Add
Favorite Game

Save

Add Favorite

footer

Adding Favorite Games:

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (1, 1);
```

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (16, 2);
```

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (22, 4);
```

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (24, 5);
```

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (7, 6);
```

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (13, 10);
```

```
INSERT INTO player_favorite (game_id,  
player_id) VALUES (20, 9);
```

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Favorite Games

[Add Favorite](#)

Game

1. The Light Rested Upon Me by Dan Burr
2. Imhotep
3. Astroneer
4. Stardew Valley
5. Back to the Future Back in Time
6. Connect Four
7. Enchanted Forest

Player

Adam
Benjamin
Daniel
Ephraim
Frank
Isabel
Hannah



footer

Displaying Players & their favorite game:

```
SELECT
    ga.game_title AS 'Favorite Game',
    pp.player_name AS 'Player'
FROM
    player_favorite pf
    LEFT JOIN
        game ga ON pf.game_id =
        ga.game_id
    LEFT JOIN
        player_person pp ON
        pp.player_id = pf.player_id;
```

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Favorite Games

[Add Favorite](#)

Game

1. Pandemic
2. Imhotep
3. Astroneer
4. Stardew Valley
5. Back to the Future Back in Time
6. Connect Four
7. Enchanted Forest

Player

Adam
Benjamin
Daniel
Ephraim
Frank
Isabel
Hannah



Edit
Favorite Game

Pandemic

Adam

Save

Updating List:

```
UPDATE player_favorite
SET
  game_id = 17
WHERE
  player_id = 1;
```

Here, Adam previously had a puzzle, but it was changed to a board game, “Pandemic”.

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)

Favorite Games

[Add Favorite](#)

Game

1. Pandemic
2. Imhotep
3. Astroneer
4. Stardew Valley
5. Back to the Future Back in Time
6. Connect Four
7. Enchanted Forest

Player

Adam
Benjamin
Daniel
Ephraim
Frank
Isabel
Hannah



Are you sure you want to delete
this name and all its information?

Deleting unwanted
favorite:

DELETE FROM
player_favorite
WHERE
player_id = 2;

Game #2, Imhotep and Benjamin
would be deleted.

[Games](#)[Players](#)[Sessions](#)[Favorite Games](#)[Add Favorite](#)

Favorite Games

Game

1. Pandemic
3. Astroneer
4. Stardew Valley
5. Back to the Future Back in Time
6. Connect Four
7. Enchanted Forest

Player

Adam
Daniel
Ephraim
Frank
Isabel
Hannah



footer

What I have learned

- In the next few slides are some things I have learned and hope for in the future with this project as I continue to work and improve on it after this class.
- I hope that this will be beneficial for my family and I to use and help us play more games together and get rid of the ones we don't like or use often.

Initial Problems

- I got confused initially with the diagramming website
 - The site helped me visualize which attributes should exist on which table
 - Foreign keys helped depict the relationships
 - Before adding the keys I accidentally duplicated fields on tables (game name for example)
 - Having to go back and change some fields from integer to varchar() and dropping the schema
 - Disabling the Safe Mode to be able to update and delete
 - Re-starting the server after disabling safe mode

Naming standards

- After creating several table I decided on a few standards I wanted to use to be consistent
- Table names 'singular'
 - Game, User, Play_Session
- Primary key IDs match the table they represent
 - Ensured ID was consistent between tables.
 - game_id
 - user_id

Adding features Eventually

- Once the game entity was complete, I added more tables for family members and play sessions
- I can add more fields like year created and game state (if the game is missing pieces for example)
- Another attribute for 'last modified' or 'last reviewed' to easily see what games need to be checked and updated
- App for phone
- Have the computer pick a random game I haven't played recently, which could be fun