**Introduction**

For this project we have been tasked with creating an SQL database for any form of system of our choosing. I have decided to make my database based off a fictional video game, like that of Team Fortress 2 or Counter Strike: Global Offensive.

As such I have chosen four tables which would be very useful for such a game’s backend systems, these four being Platforms, Servers, Players, and Items

These tables represent as such:

* **Platforms**

These represent the marketplaces from which a player could buy a copy of the game.

|  |  |
| --- | --- |
| **Data Name** | **Description** |
| platform\_id | The platforms name made into a short code. |
| name | The platform’s full name. |
| owner | The full name of the owner of the platform. |
| pricing | The price of the game on said platform. |
| sales | The number of copies sold on said platform. |

* **Servers**

The servers table holds information on all the game servers. This game allows anybody to start and run their own server which other players can join and play on.

These servers store five pieces of important data.

|  |  |
| --- | --- |
| **Data Name** | **Description** |
| server\_id | A 12-digit code which represents the server. |
| platform\_id | The platform\_id of the platform which the server runs on. |
| owner | The owner is the player\_id of the player who owns the server and as such has elevated permissions on the server. |
| name | The name is the name which players will see when the find this server on the server browser |
| location | The location which the server is based, helps players find servers closer to them which will have less network latency. |

* **Players**

The players table contains information on all the players who own a copy of the game.

|  |  |
| --- | --- |
| **Data Name** | **Description** |
| player\_id | The players id which is a 12-digit code. |
| platform\_id | The platform’s where the player bought the game. |
| name | The player’s username which is used in-game. |

* **Items**

The items table stores information of all the items in the game. Items are bought from an in-game store or found randomly from playing the game.

|  |  |
| --- | --- |
| **Data Name** | **Description** |
| item\_id | The players id which is a 12-digit code. |
| item\_type | The type of item, by its identifier. |
| item\_name | The optional custom name which has been assigned to the item. |
| owner | The player who owns the item. |

**Entity Relationship Diagram**

Diagram

Description automatically generated

**Sample Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **platforms** | | | | |
| **platform\_id** | **name** | **owner** | **pricing** | **sales** |
| WIIU | Wii U | Nintendo | 40 | 1000 |
| SWITCH | Nintendo Switch | Nintendo | 60 | 25000 |
| PS3 | Playstation 3 | Sony | 40 | 9000 |
| PS4 | Playstation 4 | Sony | 60 | 23000 |
| PS5 | Playstation 5 | Sony | 60 | 21000 |
| XB360 | Xbox 360 | Microsoft | 40 | 12000 |
| XB1 | Xbox One | Microsoft | 60 | 26000 |
| XBSX | Xbox Series X | Microsoft | 60 | 19000 |
| STEAM | Steam | Valve | 50 | 150000 |
| EPIC | Epic Games Store | Epic Games | 50 | 90000 |

|  |  |  |
| --- | --- | --- |
| **players** | | |
| **player\_id** | **platform\_id** | **name** |
| 547432520446 | STEAM | AllisonPlays |
| 594720282446 | XBSX | DisguisedKitten |
| 594722333496 | SWITCH | thomasmatthews2005 |
| 594722502646 | XB1 | Emality |
| 594722522446 | STEAM | Allielife |
| 594722523446 | EPIC | Garrisonior |
| 594722982446 | STEAM | papaya |
| 594725528446 | WIIU | Niamh Murphy |
| 599527132446 | STEAM | festive noisemaker |
| 694702577446 | PS5 | MaddyClimbs |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **servers** | | | | |
| **server\_id** | **platform\_id** | **owner** | **name** | **location** |
| 000000000329 | STEAM | 594722502646 | Official PC Server 3 | EU |
| 000000001686 | STEAM | 594722502646 | Official PC Server 4 | EU |
| 000000001943 | STEAM | 594722502646 | Official PC Server 8 | ASIA |
| 000000005122 | STEAM | 594722502646 | Official PC Server 11 | US-CENTRAL |
| 000000005142 | STEAM | 594722502646 | Official PC Server 13 | US-WEST |
| 000000005906 | STEAM | 594720282446 | the funny zone | EU |
| 000000006573 | STEAM | 594722522446 | Allison's Alley NA | US-CENTRAL |
| 000000007318 | STEAM | 594722522446 | Allison's Alley EU | EU |
| 000000008438 | SWITCH | 594722502646 | Official Switch Server 2 | ASIA |
| 000000009094 | PS5 | 594722502646 | Official PS5 Server 4 | EU |

|  |  |  |  |
| --- | --- | --- | --- |
| **items** | | | |
| **item\_id** | **item\_type** | **item\_name** | **owner** |
| 189225318711 | cowering\_hat | Scaredy Hat | 594722522446 |
| 206336227507 | demeaning\_showl |  | 594722982446 |
| 291384798235 | rotating\_skirt | the spinner | 594722502646 |
| 496789188508 | overbearing\_overcoat | thiccums | 594720282446 |
| 598748252189 | inexpensive\_gest |  | 594722333496 |
| 632356448941 | rotating\_skirt |  | 594722982446 |
| 831610863354 | suspicious\_stare | the pretender | 599527132446 |
| 850259986450 | jumping\_jacket | The Speedster | 594722333496 |
| 860763853015 | hysterical\_handbag |  | 547432520446 |
| 948206669579 | notorious\_knot | the funny hat | 594720282446 |