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DATABASE MANAGEMENT PROJECT 1

The Forgotten Guardians Database Creation and Design

THE PROBLEM

A new company has developed a breakthrough **Massive Multiplayer Online Role Playing Game (MMORPG)**. An MMORPG is a computer game that is played over the Internet, connecting to a server where other players from around the world are also playing the same game. It is possible to 'see' and communicate with these other players when online. This company has recruited you to be their database designer. The database will manage the accounts of all players registered for this online game.

- Each account must have a **unique name**. This will be the name that players use to log on to the game server.
- Players need to pay a fee every month for having an account and, when their time runs out, the account must be blocked. It must only be unblocked when they have purchased more time.
- Each account has a number of characters that have been created by the user. All characters have names and belong to a team and also have a skill level.
- A table in the database logs any errors that occur. Make sure that certain errors have a certain type so that they are easier to find.
- When playing the game with one of characters within the account, a player may find and pick up items
 - These items are then stored in the character's inventory.
 - No item is unique unfortunately, so other characters may have the same item.
 - The inventory has eight open slots for different types of items to go into.
 - Items that are the same can stack on the same slot; therefore, a record must be kept of the quantity.

THE FORGOTTEN GUARDIANS GAME DESCRIPTION

Judgment Day is the apocalyptic catastrophe that brought the world to an end, leaving Earth destroyed and abandoned.

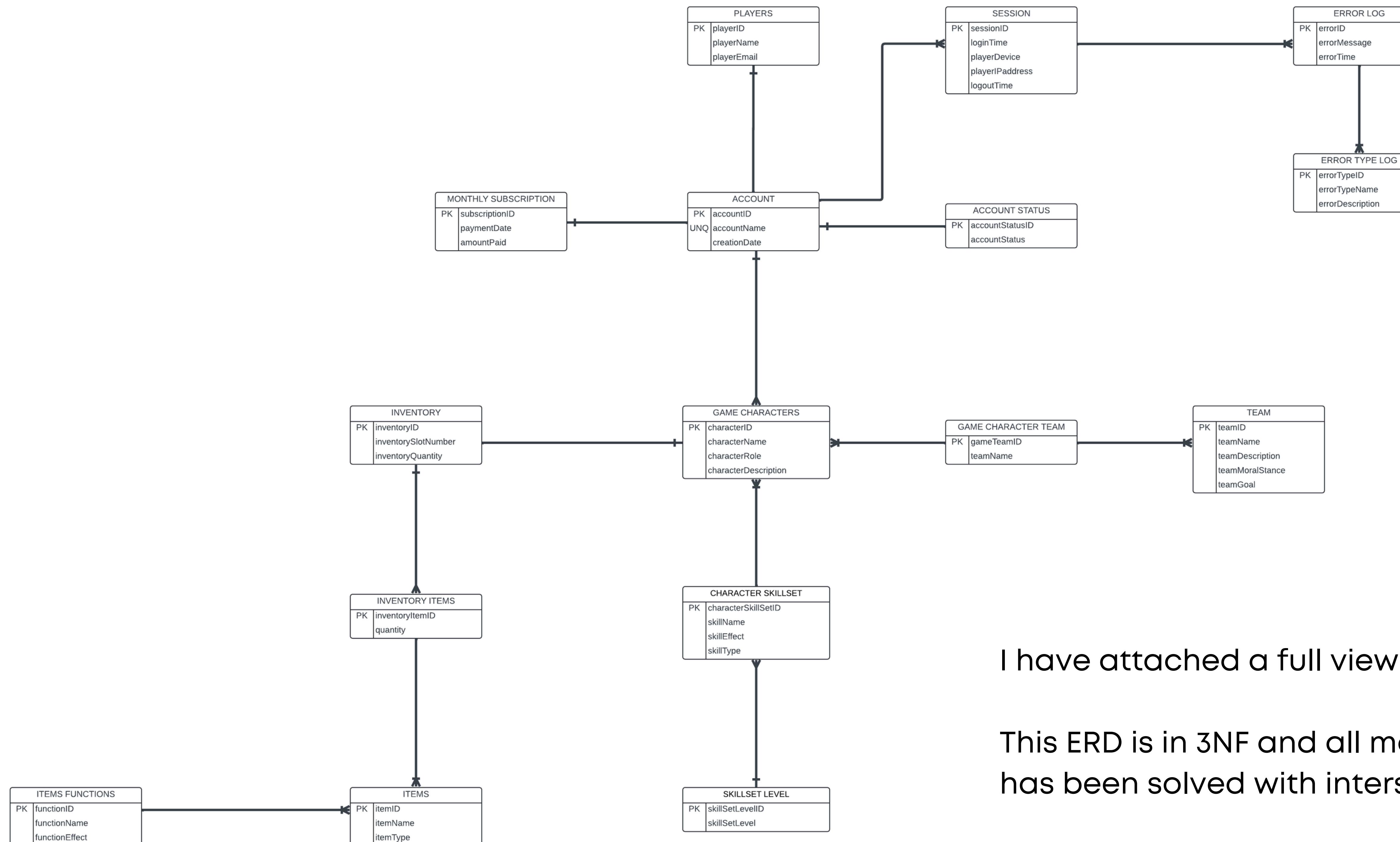
A tiny percentage of humanity survived, but the majority ascended into the heavens ; they were spared extinction. The Forgotten Guardians, as these entities are called, have given the survivors supernatural abilities to aid in the reconstruction of the planet and combat evil forces expelled from Hell.

These demons are fighting against the surviving members of humanity and the celestial guardians in an attempt to establish Earth as their new realm.

These empowered humans now hold the power to decide how to proceed in the conflict between light and darkness, which will determine the fate of the entire planet.

THE ENTITY RELATIONSHIP DIAGRAM FOR OUR DATABASE

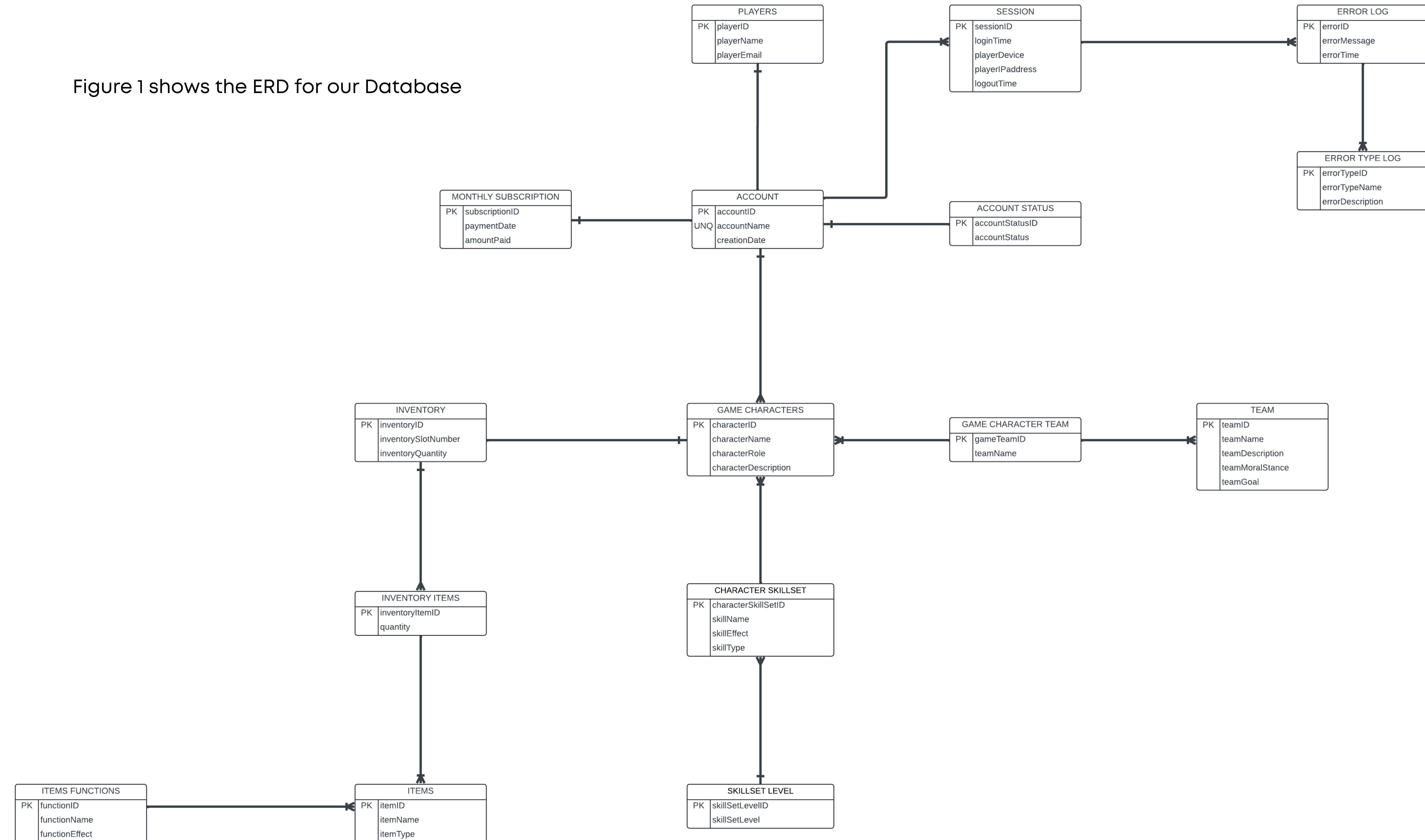
Figure 1 below shows the ERD for our Database



I have attached a full view of the image in the folder.

This ERD is in 3NF and all many to many relationships has been solved with intersection entities.

Figure 1 shows the ERD for our Database



SPECIFICATIONS

We have been tasked to complete the following for the Massive Online Role Playing Game (The Forgotten Guardians)

1. Create a ER Diagram.
2. Create Database and Tables in the same script.
3. Insert sample data into tables we created.

4. Create the following views:

- (4.1) vwBlockedAccounts
- (4.2) vwTopSkill
- (4.3) vwTopStackedItems
- (4.4) vwPopItems

5. Create the following Procedures:

- (5.1) spRegister
- (5.2) spAddTime
- (5.3) spAddItem
- (5.4) spAddChar
- (5.5) spSendLetter

6. Indexed two tables.

7. Create zipped Backup of Database.

EXAMPLE REPORT FROM SPSENDLETTER3

Dear KnightRaiderXx,
You have -280 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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Dear FireMage96,
You have -586 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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Dear TheDivergentXx,
You have 176 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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Dear FireChaser101,
You have -859 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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Dear ShadowAssassin,
You have 267 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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Dear GuardianOfLight,
You have 236 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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Dear IronFist,
You have -280 days left in your subscription.
Latest News: Planned maintenance expected ahead! Stay tuned for more details
Thank you for being with us!
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(5.5) This is a example of what a report may look like.

**Note that when data was inserted into the tables, we used random dates but if accurate dates were entered the report would display accurate results.