#### Member:

Muhammad Alif Satriadhi
Fawwas Aldy Nurramdhan Kaisar
Mohmmad Hanif Furqan Aufa Putra
Surya Fadli Alamsyah
5025221188
5025221179
5025221161
5025221059

# Quantum Flux - TCG SHOP

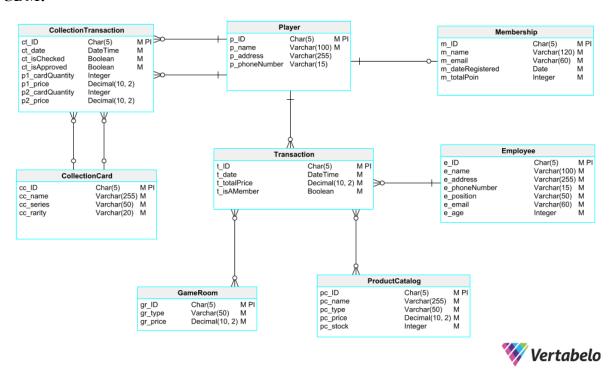
Given the current boom in Trading Card Games (TCG), an entrepreneur who is also a fan of TCG has decided to open a TCG-themed Game Center. Recognizing the need for a streamlined transaction process, the entrepreneur has enlisted the services of an acquaintance to design the database system. The Game Center will offer various card packs from different series (Pokemon, Yu-Gi-Oh, Magic The Gathering, etc.) and feature a card collection display, with some cards available for sale. Additionally, it also offers Game Boards. The owner is a geek, so he is also a veteran player, so he also became a card collector. Therefore, some of the cards owned by the owner are also sold to players. Players can buy/sell/trade cards with the owner's card collection.

The Game Center also offers a TCG game area where players can play against one another, it also offers a private room if the player doesn't want to wait their turn to play. The private game rooms are divided into three types (Regular, Deluxe, and VIP). To become a member, the player needs to have spent at least around 150k IDR and provide personal data, including their name and email. The benefits of becoming a member are Access to play in the Game Area, Earning points with every transaction, which can be exchanged for merchandise, and Enjoying discounts.

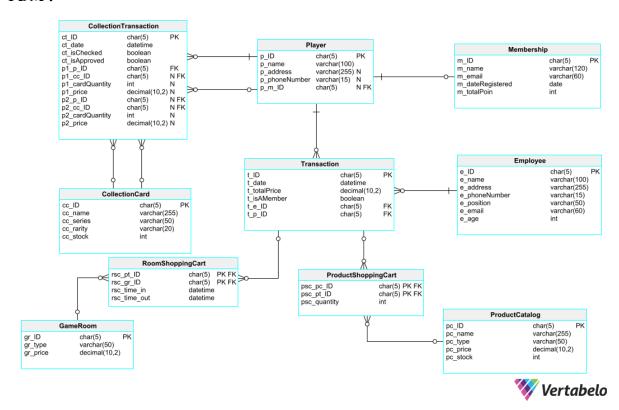
The entrepreneur desires a system that records employee data, including Employee ID, name, gender, phone number, email, and age. Each employee can handle multiple transactions by customers. Customers have the option to purchase more than one item per transaction. Employees will record whether the customer is a member, the total number of items purchased, the total amount due, and the preferred payment method.

The database design aims to facilitate efficient and accurate record-keeping for both employee management and customer transactions, ensuring a seamless experience for all patrons of the TCG-themed Game Center.

### CDM:



### PDM:



## **Assumptions:**

- Because the card collection belongs to the owner, the transaction for the CollectionTransaction table is handled by the owner itself and not related to the employee.
- The TCG store limits players to one request at a time per query and employs an approval process for collection card transactions. If a player wishes to trade more than once, they need to submit another query.
- The Owner is included as the player with a unique ID "OWNER" in CollectionCardTransaction