RELATIONSHIP

Exchange **have access** to cryptocurrencies

Marketcap **varies from** Prices

Wallets **are mandatory for** Users

CARDINALITY

1:1 = **Users** are required to have at least one **wallet** per user

**Marketcap** values vary from the **Prices**

1:N = Many (N) **cryptocurrencies** are traded in one of the crypto **exchanges**

PARTICIPATION

Cryptocurrencies (partical participation) and Exchange (total participation) – Some of the cryptocurrencies are not required to be in a specific exchange. For example, Bitcoin is not tradeable through crypto.com. On the other hand, the exchange would not exist if there’s no cryptocurrency.

Prices (partial participation) and Marketcap (total participation) – Prices vary from different marketcap. For example, Bitcoin’s marketcap is 500 million and Ethereum is 214 million. On the other hand, marketcap would not exist if people were not trading and prices are at 0.

Users (partial participation) and Wallets (total participation) – Users have different wallets in order to differentiate between users. At the same time, wallets would not be present or created if there’s no user.