

User(id: INT, name: CHAR(20), email: CHAR(30))

Trade(id: INT, timestamp: INT, price: DOUBLE, userID: INT, bought?: BOOL)

Exchange(name: CHAR(20), website: CHAR(30))

Traded\_On(exchange\_name: CHAR(20), commodity\_name: CHAR(20))

Account (user\_id: INT, exchange\_name: CHAR(20), balance: DOUBLE)

Metric(name: CHAR(20), timestamp: INT, tradedon\_commodity: CHAR(20),  
tradedon\_exchange: CHAR(20))

Price(metric\_name: CHAR(20), buy: DOUBLE, sell: DOUBLE)

Volume(metric\_name: CHAR(20), daily: INT, hourly: INT)

Trend (metric\_name: CHAR(20), value: INT, source CHAR(30))

Commodity(name: CHAR(20), metric\_name: CHAR(20))

Coin(commodity\_name: CHAR(20), ICO\_value: DOUBLE)

Stock(commodity\_name: CHAR(20), company\_site: CHAR(30))

### Normalization

We have yet to find any functional dependencies in the attributes of our entities, so the database (as it is now) is trivially in BCNF.