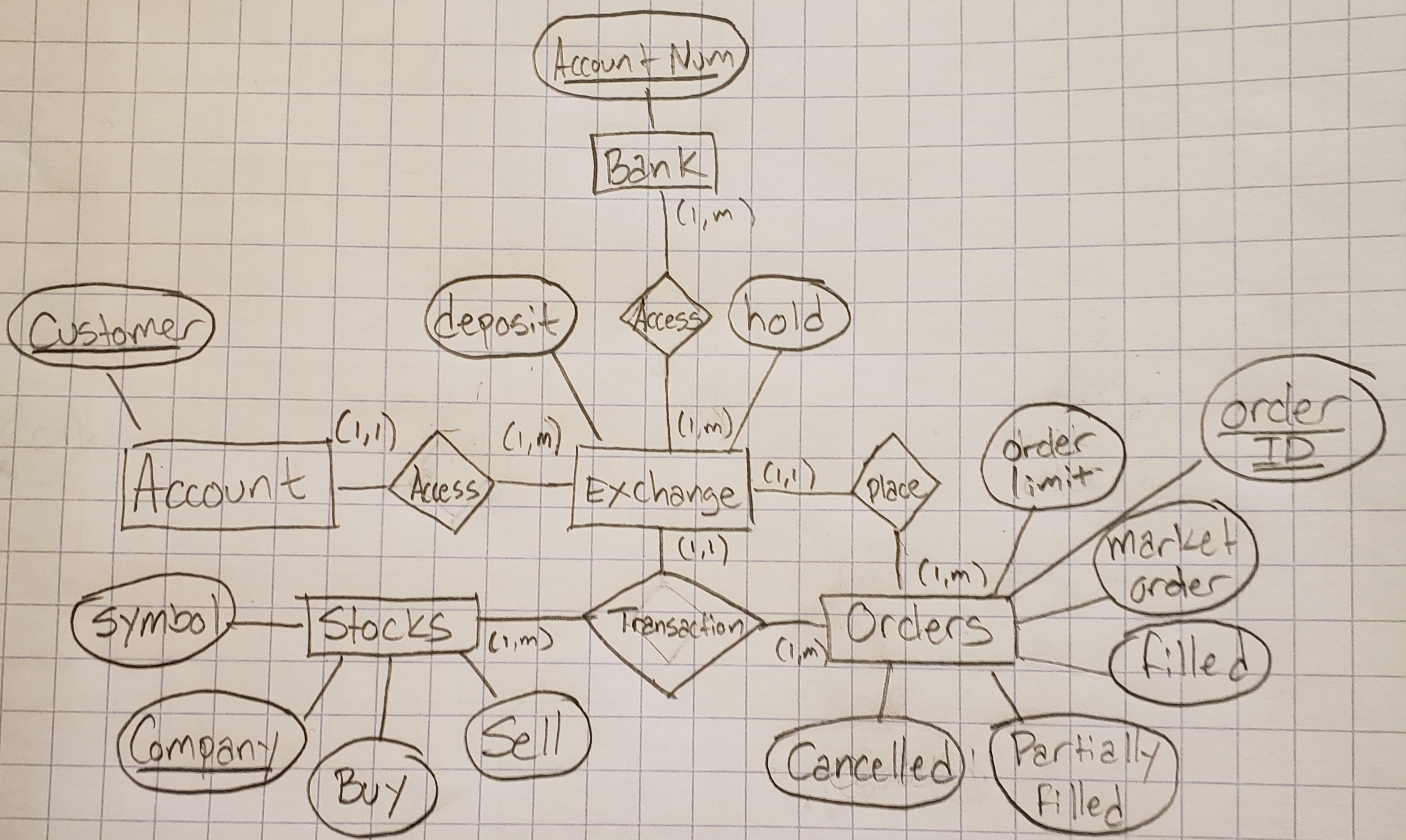


FIVE STAR.
★★★★★

FIVE STAR.
★★★★★

FIVE STAR.
★★★★★



- This account will have a user that is a natural key to it. The account will also have one entity to it, which is the exchange. The exchange has two attributes, being deposit and hold. The foreign key for exchange is the customer. Exchange has three (3) entities, being Bank, Orders and Stocks. Bank only has one attribute, which is also a natural key: Account Num. It also has a foreign key, being the customer. Orders have six (6) attributes, being order limit, order ID, market order, filled, partially filled and cancelled orders. The order ID is the primary key. Lastly, Stocks has four (4) attributes, being symbol, company, buy and sell. The company is the primary key for stocks. The relation between Account and exchange is (1,1) since there is only 1 stock market exchange. The relation between the exchange and account is (1,m) since many accounts can access the exchange. The relationship between the exchange and bank (and vice-versa) is (1,m) since many bank accounts can access the exchange and the exchange can cash out multiple bank accounts. The relationship between the exchange and orders is (1,1) since only the exchange can send orders. Orders to exchange is (1,m) since many orders can be placed. The transaction relationship works the exact same way as the order placement. Lastly, the exchange has a (1,1) relation with Stocks as only the exchange has access to Stocks, while it is (1,m) backwards since there is many Stocks to choose from.

Account (Customer)

Exchange (Customer*, deposit, hold)

Bank (Account Num, Customer*)

Orders (Order ID, order limit, market order, filled, Partial, Cancelled)

Stocks (Company, symbol, buy, sell)