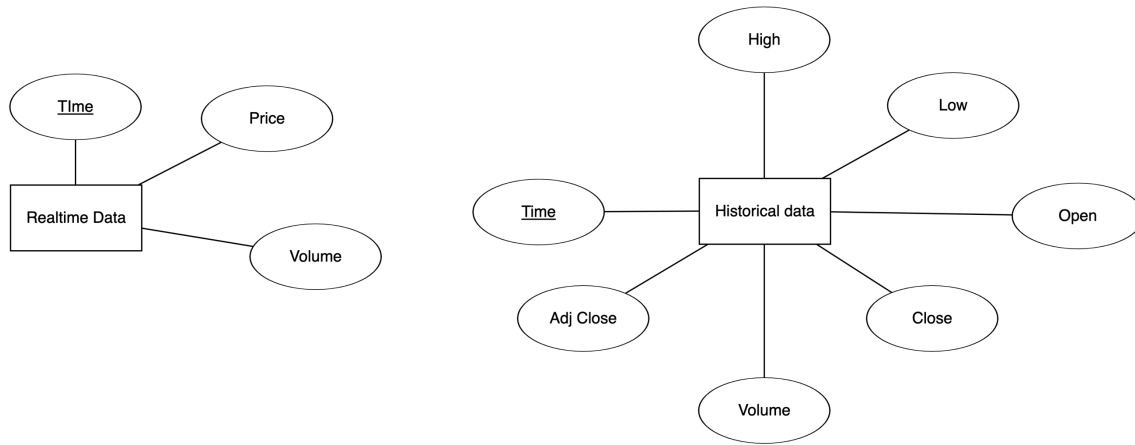
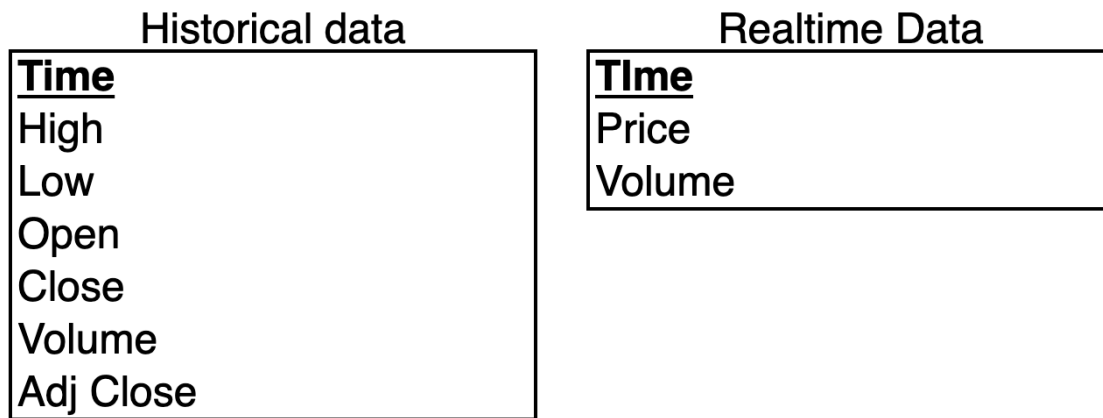


## Project\_phase1 Schema



ER Diagram



Schema

In our database, we have 10 stocks which include: GOOG (Google), MSFT (Microsoft), AAPL (Apple), NVDA(NVIDIA), BTC-USD (Bitcoin), AMZN (Amazon), OVTZ (Oculus VR), IBM (IBM), AMD (AMD), INTC (Intel).

For each stock, we store the information into two collections, the realtime\_data collection and the historical\_data collections. Because the MongoDB we use is a kind of non-relational database, so there doesn't have any relation between 2 collections. Also, for each stock, it could only have one data during a single time stamp, so we use time to be the primary key of these collections.

The diagram shows the 2 collections of one stock. There are 20 collections in total in our database.