# DB DETAILS

* Symbols Table:
  + sym\_id(Primary Key): Unique identifier for the symbol.
  + symbol\_name: Name or code of the financial instrument.
  + symbol\_type: Type of the symbol (e.g., Forex, Stocks, Futures).
  + base\_currency: Base currency of the symbol.
  + quote\_currency: Quote currency of the symbol.
* Bars Table:
  + sym\_id(Foreign Key): Reference to the corresponding symbol.
  + time: Timestamp of the bar (OHLC candle).
  + open: Opening price of the bar.
  + high: Highest price during the bar.
  + low: Lowest price during the bar.
  + close: Closing price of the bar.
  + volume: Volume traded during the bar.

Ticks Table:

* + sym\_id(Foreign Key): Reference to the corresponding symbol.
  + time: Timestamp of the tick.
  + bid: Bid price.
  + ask: Ask price.
  + last: Last traded price.
  + volume: Volume traded at the tick.
* Trades Table:
  + trade\_id (Primary Key): Unique identifier for the trade.
  + sym\_id(Foreign Key): Reference to the corresponding symbol.
  + time: Timestamp of the trade.
  + price: Price at which the trade occurred.
  + volume: Volume of the trade.
  + buy: Flag indicating if the trade is a buy or sell trade.
  + order\_id: Identifier of the corresponding order (Foreign Key).
* Orders Table:
  + order\_id (Primary Key): Unique identifier for the order.
  + sym\_id(Foreign Key): Reference to the corresponding symbol.
  + time: Timestamp of the order.
  + type: Type of the order (market, limit, stop, etc.).
  + price: Order price.
  + volume: Volume of the order.
  + account\_id: Identifier of the corresponding account (Foreign Key).
* Accounts Table:
  + account\_id (Primary Key): Unique identifier for the account.
  + account\_number: Account number or identifier.
  + balance: Current account balance.
  + equity: Current account equity.

# WITH DATA TYPES

* Symbols Table:
  + sym\_id(Primary Key): SERIAL or INT
  + symbol\_name: VARCHAR(255)
  + symbol\_type: VARCHAR(50)
  + base\_currency: VARCHAR(10)
  + quote\_currency: VARCHAR(10)

Bars Table:

* + sym\_id(Foreign Key): INT
  + time: TIMESTAMP
  + open: NUMERIC
  + high: NUMERIC
  + low: NUMERIC
  + close: NUMERIC
  + volume: NUMERIC

Ticks Table:

* + sym\_id(Foreign Key): INT
  + time: TIMESTAMP
  + bid: NUMERIC
  + ask: NUMERIC
  + last: NUMERIC
  + volume: NUMERIC

Trades Table:

* + trade\_id (Primary Key): SERIAL or INT
  + sym\_id(Foreign Key): INT
  + time: TIMESTAMP
  + price: NUMERIC
  + volume: NUMERIC
  + buy: BOOLEAN
  + order\_id: INT (Foreign Key)

Orders Table:

* + order\_id (Primary Key): SERIAL or INT
  + sym\_id(Foreign Key): INT
  + time: TIMESTAMP
  + type: VARCHAR(50)
  + price: NUMERIC
  + volume: NUMERIC
  + account\_id: INT (Foreign Key)

Accounts Table:

* + account\_id (Primary Key): SERIAL or INT
  + account\_number: VARCHAR(50)
  + balance: NUMERIC
  + equity: NUMERIC