Database

1. stock\_db. /\* for captured and transformed data (with api) from data.nasdaq.com \*/
2. stock\_warehouse /\* Clean data for data analysis and data visualization \*/

Table Schema for stock\_db

1. stocks - Stock Table
2. market\_capacity - Market Capacity Tables
3. cpi - Consumer Price Index (CPI)

1) Stock Table (e.g. Consolidate\_Stocks.csv)

|  |  |  |
| --- | --- | --- |
| Index | Field Name | Description |
| 1 | seq\_number | Record sequence number |
| 2 | ticker | Stock code |
| 3 | txdate | Transaction date |
| 4 | open\_price | Opening price |
| 5 | day\_high | Day High |
| 6 | day\_low | Day Low |
| 7 | close\_price | Closing price |
| 8 | ex\_dividend | Dividend |
| 9 | split\_ratio | Stock split ratio |
| 10 | adj\_open | Adjusted opening price |
| 11 | adj\_high | Adjusted high price |
| 12 | adj\_low | Adjusted low price |
| 13 | adj\_close | Adjusted closing price |
| 14 | adj\_volume | Adjusted transaction volume |

2) Market Capacity (e.g. Consolidate\_Market\_Capacity.csv)

|  |  |  |
| --- | --- | --- |
| Index | Field Name | Description |
| 1 | seq\_number | Sequence number |
| 2 | ticker | Stock code |
| 3 | txdate | Transaction date |
| 4 | short\_vol | Short volume |
| 5 | total\_vol | Total volume |

3) CPI (e.g. USA\_Transformed\_CPI.csv)

|  |  |  |
| --- | --- | --- |
| Index | Field Name | Description |
| 1 | seq\_number | Sequence number |
| 2 | txdate | Transaction date |
| 3 | CPI | Consumer Price Index per month |

Table Schema for stock\_warehouse

1. BI\_stocks – stocks for data analysis
2. BI\_stock\_mth – consolidated stocks for analysis by month
3. BI\_cpi – consolidated cpi data

1) CPI (e.g. BI\_stocks)

|  |  |  |
| --- | --- | --- |
| Index | Field Name | Description |
| 1 | ticker | Stock code |
| 2 | txdate | Transaction date |
| 3 | open\_price | Opening price |
| 4 | day\_high | Day High |
| 5 | day\_low | Day Low |
| 6 | close\_price | Closing price |
| 7 | ex\_dividend | Dividend |
| 8 | short\_vol | Short volume |
| 9 | total\_vol | Total volume |

2) CPI (e.g. BI\_stocks\_mth)

|  |  |  |
| --- | --- | --- |
| Index | Field Name | Description |
| 1 | ticker | Stock code |
| 2 | yearMonth | Transaction date |
| 3 | mth\_open\_price | Opening price |
| 4 | mth\_day\_high | Day High |
| 5 | mth\_day\_low | Day Low |
| 6 | mth\_close\_price | Closing price |
| 7 | mth\_short\_vol | Short volume |
| 8 | mth\_total\_vol | Total volume |

3) CPI (e.g. BI\_cpi)

|  |  |  |
| --- | --- | --- |
| Index | Field Name | Description |
| 1 | ticker | Stock code |
| 2 | cpi | Consumer Price Index per month |