Data access

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| **Subject** | **Details** | **Remarks** |
| Table - Stocks | Data = Table(**'Stocks'**,metadata,  Column(**'Period'**,String(20)),*#WEEKLY, DAILY, INTRADAY*  Column(**'Aggregation'**,Integer()),*#1,5,15(minutes for intraday)*  Column(**'Symbol'**,String(20)),  Column(**'Timestamp'**,Integer()),  Column(**'Date'**,Date()),  Column(**'Time'**,Time()),  Column(**'Open'**,Float()),  Column(**'High'**,Float()),  Column(**'Low'**,Float()),  Column(**'Close'**,Float()),  Column(**'Volume'**,Float()),  Column(**'BigMove'**,Boolean(),default=**False**),  Column(**'Direction'**,Integer(),default=0)*# 1=up, -1=down, 0=default*  ) | class CN: # Column Names  PERIOD = 'Period'  AGGREGATION = 'Aggregation'  SYMBOL = 'Symbol'  DIRECTION = 'Direction'  BIG\_MOVE = 'BigMove'  OPEN = 'Open'  HIGH = 'High'  LOW = 'Low'  CLOSE = 'Close'  MEAN\_HL = 'MeanHL'  VOL = 'Volume'  DATE = 'Date'  TIME = 'Time'  TIMESTAMP = 'Timestamp'  DATEASNUM = 'DateAsNumber'  POSITION = 'Position' |
| Stocks - DataFrame | self.df.set\_index(CN.TIMESTAMP, drop=False, inplace=True) self.column\_data = [CN.CLOSE] self.df\_data = self.df[[CN.OPEN, CN.HIGH, CN.LOW, CN.CLOSE, CN.VOL, CN. TIMESTAMP, CN.BIG\_MOVE, CN.DIRECTION]] |  |
| Table - Company | Data = Table(**'Company'**,metadata,  Column(**'Symbol'**,String(10),unique=**True**),  Column(**'Name'**,String(100)),  Column(**'ToBeLoaded'**,Boolean(),default=**False**),  Column(**'Sector'**,String(100)),  Column(**'Year'**,Integer()),  Column(**'Revenues'**,Float()),  Column(**'Expenses'**,Float()),  Column(**'Employees'**,Float()),  Column(**'Savings'**,Float()),  Column(**'ForcastGrowth'**,Float())  ) |  |
| Alphavantage - Daily | {  "Meta Data": {  "1. Information": "Daily Prices (open, high, low, close) and Volumes",  "2. Symbol": "MSFT",  "3. Last Refreshed": "2018-03-21 11:41:00",  "4. Output Size": "Compact",  "5. Time Zone": "US/Eastern"  },  "Time Series (Daily)": {  "2018-03-21": {  "1. open": "92.9300",  "2. high": "93.3700",  "3. low": "92.5500",  "4. close": "93.0990",  "5. volume": "7804847"  }, |  |
| Alphavantage - Intraday | {  "Meta Data": {  "1. Information": "Intraday (1min) prices and volumes",  "2. Symbol": "MSFT",  "3. Last Refreshed": "2018-03-21 12:39:00",  "4. Interval": "1min",  "5. Output Size": "Compact",  "6. Time Zone": "US/Eastern"  },  "Time Series (1min)": {  "2018-03-21 12:39:00": {  "1. open": "93.0900",  "2. high": "93.1000",  "3. low": "93.0900",  "4. close": "93.0900",  "5. volume": "12379"  }, |  |
| Cryptocompare - Intraday | {"Response":"Success", "Type":100, "Aggregated":false,  "Data":[  {"time":1531982940,  "close":7360.52,  "high":7360.52,  "low":7358.92,  "open":7359.37,  "volumefrom":33.14,  "volumeto":246012.59  }, |  |
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