**Stat480\_Homework 7**

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The Hive scripts for exercise 1 to 4 are all in the *.hive* script submitted with this report. Please refer to that file when checking code details.

**Exercise 1**

The first 5 records from the *stock* table are shown below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **market** | **stocks** | **date** | **price\_open** | **price\_high** | **price\_low** | **prive\_close** | **volume** | **price\_adj** |
| NASDAQ | ABXA | 2009-12-09 | 2.54999995 | 2.76999998 | 2.5 | 2.67000008 | 158500 | 2.67000008 |
| NASDAQ | ABXA | 2009-12-08 | 2.71000004 | 2.74000001 | 2.51999998 | 2.54999995 | 131700 | 2.54999995 |
| NASDAQ | ABXA | 2009-12-07 | 2.6500001 | 2.75999999 | 2.6500001 | 2.71000004 | 174200 | 2.71000004 |
| NASDAQ | ABXA | 2009-12-04 | 2.63000011 | 2.66000009 | 2.52999997 | 2.6500001 | 230900 | 2.6500001 |
| NASDAQ | ABXA | 2009-12-03 | 2.54999995 | 2.61999989 | 2.50999999 | 2.5999999 | 360900 | 2.5999999 |

**Exercise 2**

The first 5 records from the *IBM* table are shown below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **market** | **stocks** | **date** | **price\_open** | **price\_high** | **price\_low** | **prive\_close** | **volume** | **price\_adj** |
| NYSE | IBM | 2010-02-08 | 123.150002 | 123.220001 | 121.739998 | 121.879997 | 5718500 | 121.879997 |
| NYSE | IBM | 2010-02-05 | 123.040001 | 123.720001 | 121.830002 | 123.519997 | 8617000 | 122.970001 |
| NYSE | IBM | 2010-02-04 | 125.190002 | 125.440002 | 122.900002 | 123 | 9126900 | 122.449997 |
| NYSE | IBM | 2010-02-03 | 125.160004 | 126.07 | 125.07 | 125.660004 | 4177100 | 125.099998 |
| NYSE | IBM | 2010-02-02 | 124.790001 | 125.809998 | 123.949997 | 125.529999 | 5899900 | 124.970001 |

The highest daily high price for IBM within the data set and the corresponding date are shown below:

|  |  |
| --- | --- |
| **Date** | **Max(price\_high)** |
| 1968-04-15 | 649.8800048828125 |

The lowest daily low price for IBM within the data set and the corresponding date are shown below:

|  |  |
| --- | --- |
| **Date** | **Min(price\_low)** |
| 1993-08-16 | 40.630001068115234 |

**Exercise 3**

Obtain the minimum, average, and maximum daily spreads from the view as follow:

|  |  |  |
| --- | --- | --- |
| **Min** | **Average** | **Max** |
| 0 | 9.29882749493392 | 146.5 |

**Exercise 4**

For each market, the company with the largest daily price spread, the value of that company’s max daily price spread, and the date on which it occurred are shown below:

|  |  |  |  |
| --- | --- | --- | --- |
| **market** | **stocksymbol** | **spread** | **spread\_date** |
| NASDAQ | INFY | 146.5 | 2000-02-11 |
| NYSE | GTC | 67.54998779 | 2000-04-04 |