



QuasarDB

Simpler historical updates management

Introducing Point In Time updates

What is an historical update?



Hello, our expected dividend is 13.2 per stock.



Ok recorded in the database.

Hello, we revised it to be 14.0 per stock.



Database updated...
But...

How do I properly account this update?



Update the value



Then you can no longer see the state "as it was"

Loss of information



Don't update the value



Your computations will be incorrect

Loss of information



Add a parallel value



Makes writing queries very complicated!



Performance constraints

Handling the original update



Let's assume
we have these
values on October
21st, 2019

```
INSERT INTO dividends VALUES  
( 'A', 13.2), ( 'B', 2.4),  
( 'C', 34.1), ( 'D', 0.5)
```



|  Company |  Dividend |
|---|--|
| A | 13.2 |
| B | 2.4 |
| C | 34.1 |
| D | 0.5 |

Point In Time (PIT) update



On October 22nd
we learn that
Company B dividend
is in fact 14.0.

```
INSERT INTO dividends  
  PIT('2019-10-22')  
VALUES ('A', 14.0)
```



|  Company |  Dividend |
|---|--|
| A | 14.0 |
| B | 2.4 |
| C | 34.1 |
| D | 0.5 |

Viewing the updated values



When you select the data, you have the latest version

```
SELECT * FROM dividends
```



|  Company |  Dividend |
|---|--|
| A | 14.0 |
| B | 2.4 |
| C | 34.1 |
| D | 0.5 |

Viewing the original values



If you want the version before the update, you specify a PIT before the update

```
SELECT * FROM dividends  
PIT('2019-10-21')
```

|  Company |  Dividend |
|---|--|
| A | 13.2 |
| B | 2.4 |
| C | 34.1 |
| D | 0.5 |



QuasarDB

ENROLL IN THE BETA PROGRAM!

[HTTPS://INFO.QUASARDB.NET/BETA](https://info.quasardb.net/beta)



QuasarDB

THANK YOU

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