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**Real Life Stories on Extreme Performance with
In-Memory Database Technology**

Presented at Oracle Open World

Dell TimesTen Use Case



Juan Garza

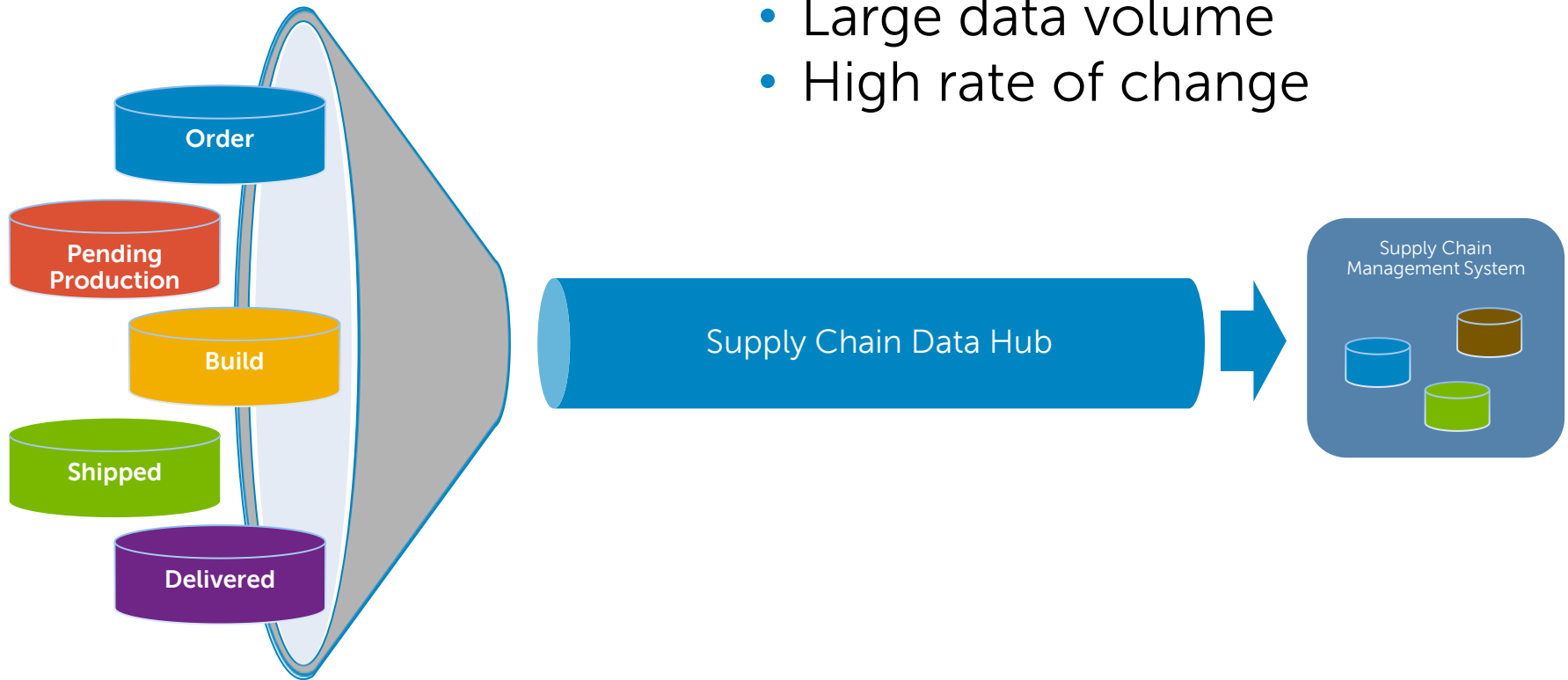
Dell Business Analyst

Environment from a Data Perspective



Data Environment

- Capture and consolidate
- Near real-time replication
- Large data volume
- High rate of change



Environment from an Application Perspective



Application Environment

- One-Stop-Shop for Order Status, Health and Issue Resolution
- Current order information
- Response times within seconds



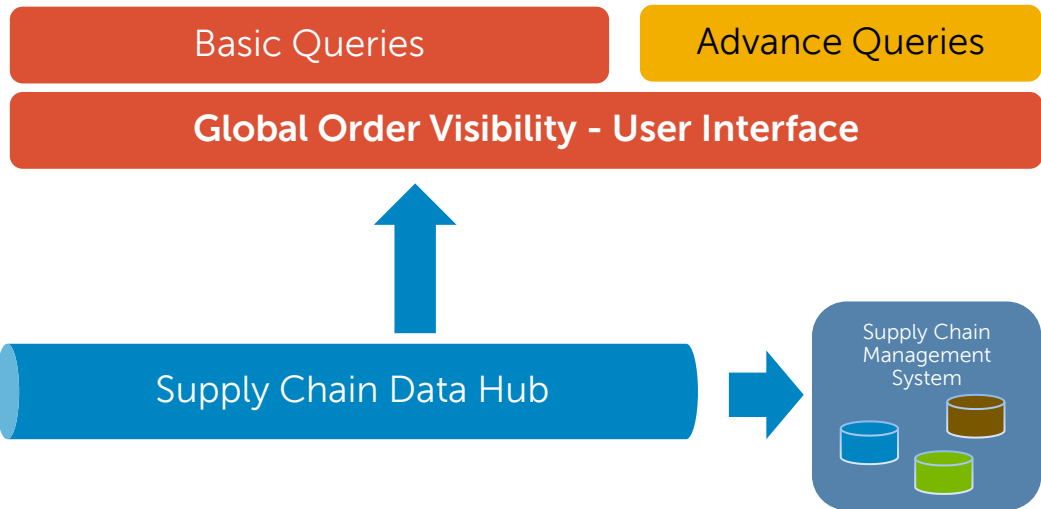
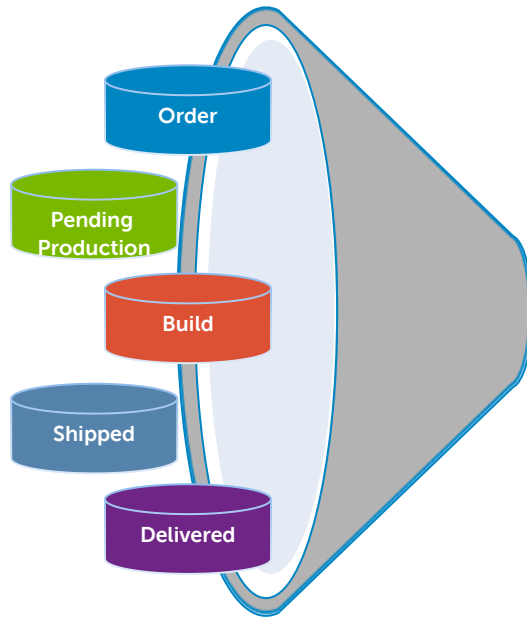
Sales



Customer Care



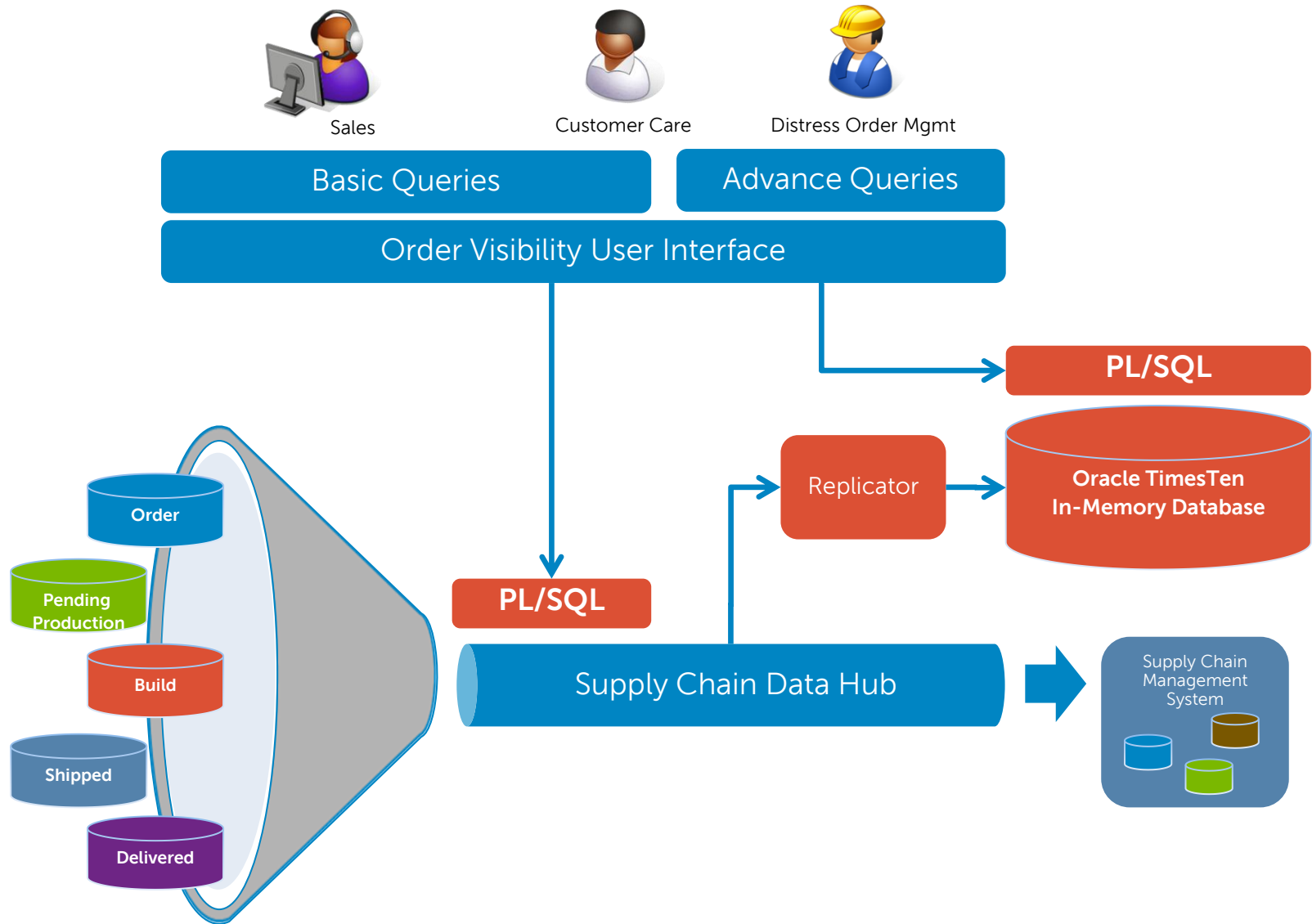
Distress Order Management



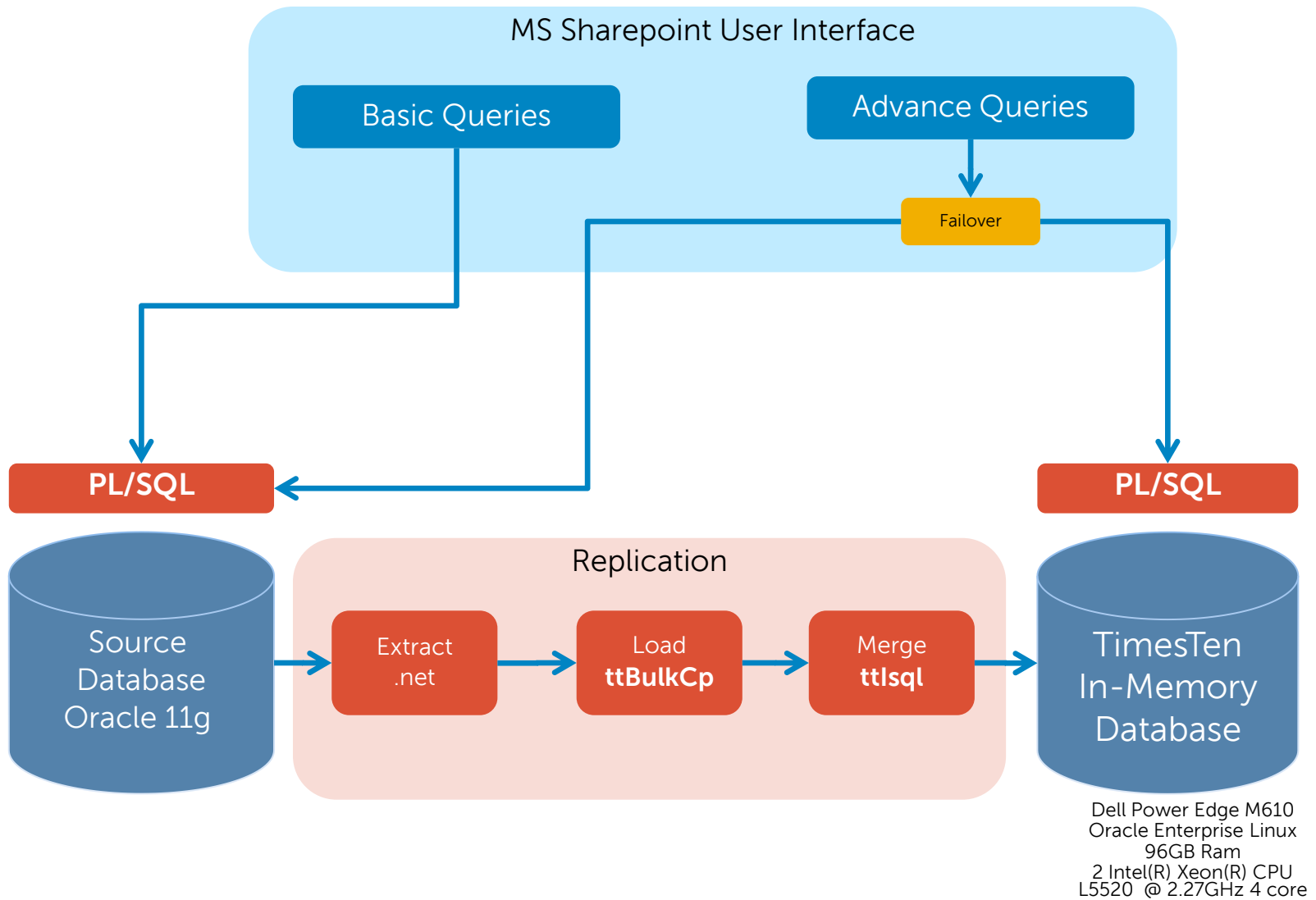
TimesTen Solution Architecture



TimesTen Architecture



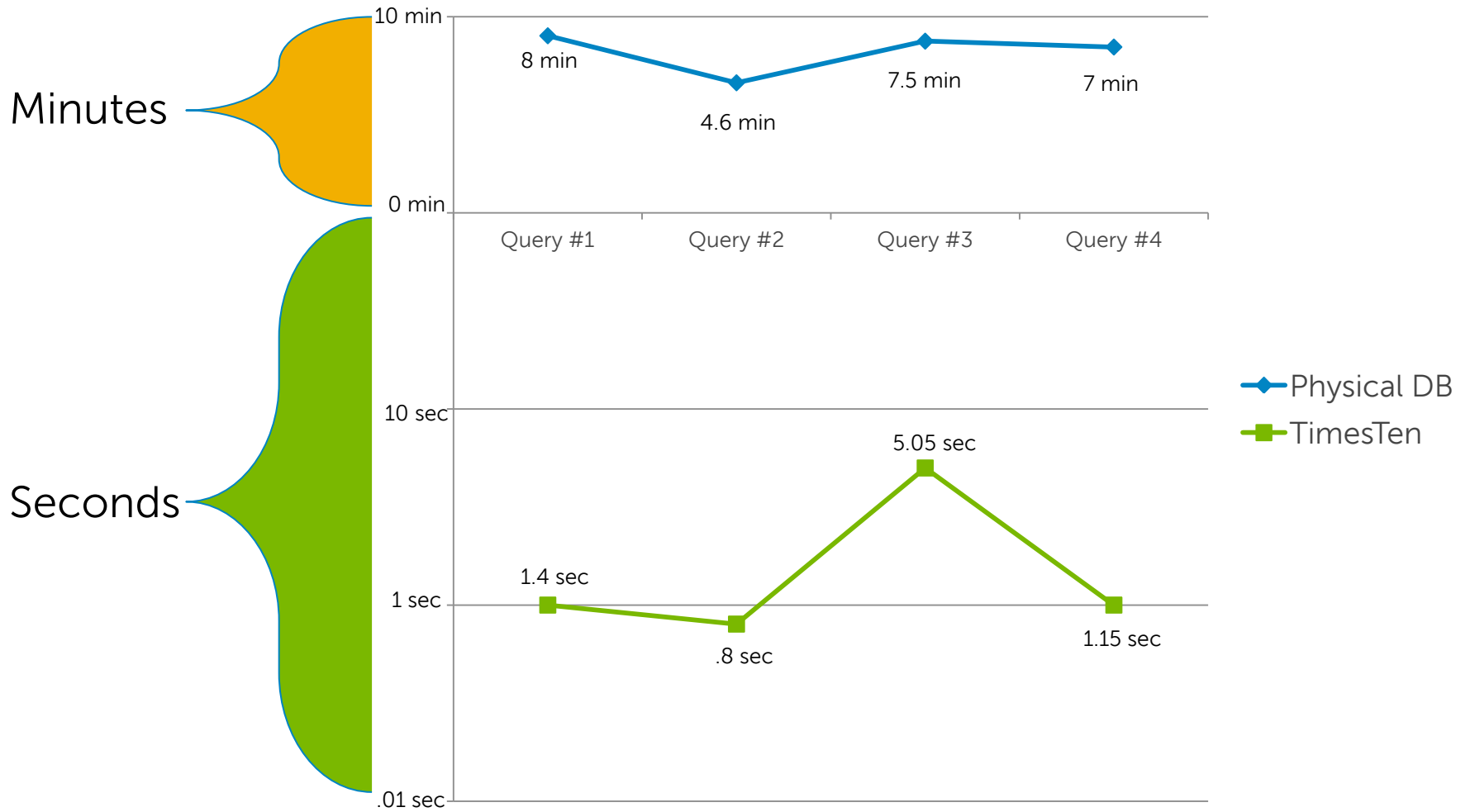
TimesTen Architecture Detail



Performance Statistics

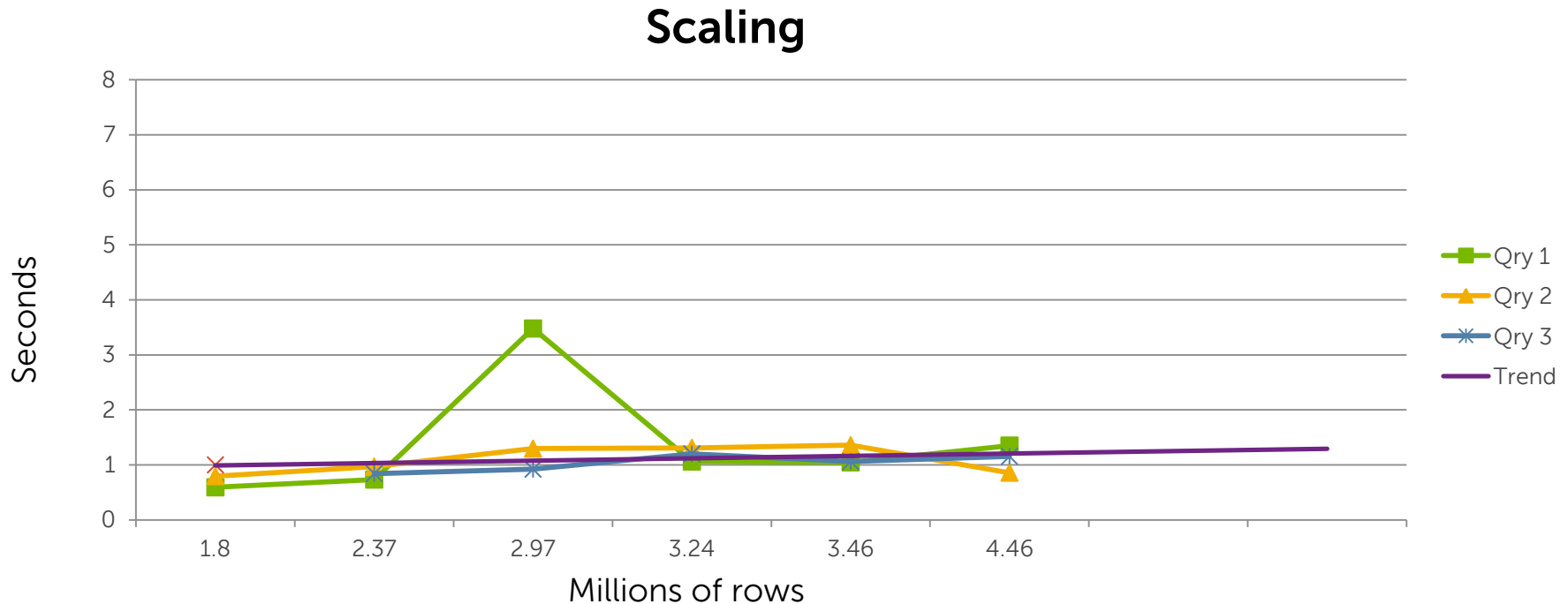


Improved Query Performance



Lessons Learned

- Adding more data doesn't affect performance
- Use sql query to monitor memory usage
 - `select temp_allocated_size, temp_in_use_size, temp_in_use_high_water from monitor;`
- Check high water marks: `temp_in_use_high_water`



Summary

Why TimesTen?

✓ **Transparency**

- Users get increased performance without change in user interface

✓ **PL/SQL**

- Maintain an identical API between our physical and in-memory database
- Developers do not have to learn a new language

✓ **Response Time**

- Significant increase in performance



Thank You

