

# How efficient is the use of In Memory Database in Business Intelligence / BigData reporting for Blockchain based data?



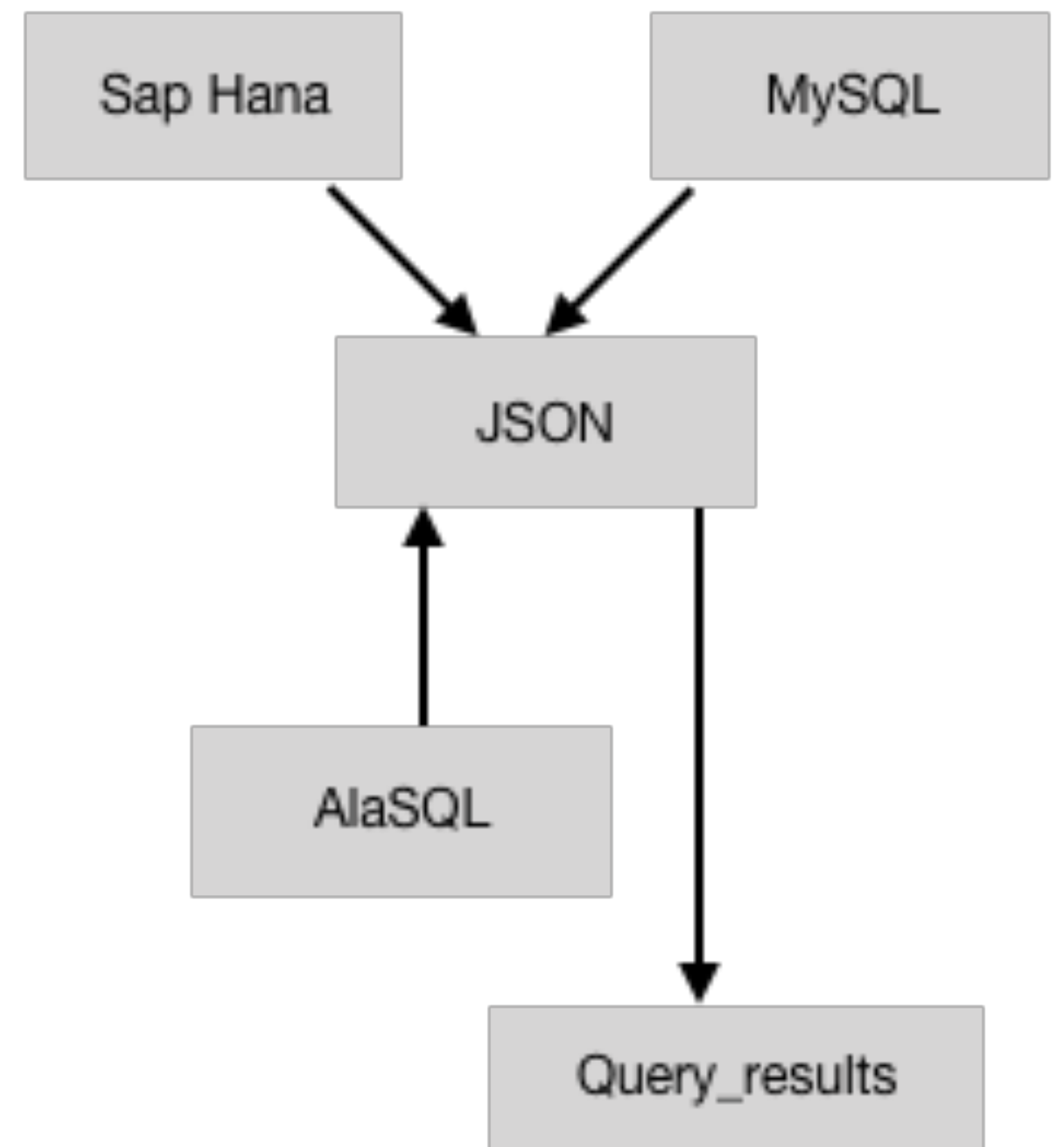
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VS.



## Performance Comparison



## Hybride Modell

### Abstract

- The rapidly growing volume of data
- Reports take hours or even days.
- Technological progress in processors and RAM's



### What is Blockchain?

- A network, usually within the Internet.
- A decentralized incorruptible database
- Financial transactions are usually stored in the block chain.
- The blockchain technology is also the basis for crypto currencies such as Bitcoin, Ethereum, Waves.
- The information is stored locally on all computers in the network.
- All computers must be hacked individually to change an information



### Performance Comparison

- 5 BI Queries (3 scenario)
- On the console (query directly on the two DBS consoles).
- Web server (query via a web server).
- Hybrid model (parallel query via conventional database and in-memory database).

### Hybride Modell

1. Connection to the databases (MySQL and SAP HANA)
2. Retrieve all records from the affected tables in JSON format and combine the results.
3. Query the combined results

### WavesBI Database

- 16 Table
- More than 97 GB
- Transactions

### Contacts

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