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Distributed Interactive Access to Large Amount of Relational Data

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LCG experiments will contain large amount of data in relational databases. Those data will be spread over many sites (Grid or not). Fast and easy access will required not only from the batch processing jobs, but also from the interactive analysis.

While many system have been proposed and developed for access to file-based data in the distributed environment, methods of efficient access to relational database resources have been so far largely underdeveloped.

Presentation will describe an architecture allowing seamless access to distributed relational data from end-user clients.

Implementation is based on the standard protocols and tools, extended with HEP-specific functionality to be easily integrated in LCG frameworks.

Major constituents of the architecture are:

- Java as the implementation language and JDBC as the databases access protocol
- transparent access from other languages using standard interfaces
- standardly available Sequoia tool to offer single access point to distributed database resources
- specific plugins to accommodate HEP-specific access patterns and provide resource usage optimization via networks of transparent proxy caches
- integration in several end-user analysis tools (JAS, jHEPWork,...)

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