JuraSearch

Natural-language data queries and analysis

For oilfield research and production roles, JuraSearch queries business data and report outputs in natural language, performs related calculations, and generates specialist charts to support routine business analysis.

Operating context

Single-well production-performance tracking

For a single well's production, water cut, and treatment records, production engineers conduct routine analysis to screen priority wells and prepare for production meetings.

Current workflow gaps

01 Data is dispersed and materials are difficult to find

Cross-system searching is time-consuming

02 Query and calculation capabilities are limited

Derivatives, aggregation, and chart creation are repeated

Expected deliverable

Priority-well lists, indicator comparisons, and trend charts

Capabilities and value

01 More convenient data access

1. Query production data and report excerpts in natural language, reducing cross-system searches and menu navigation.

02 More flexible complex analysis

2. Use business relationships between wells and treatments to perform conditional filtering, aggregation, and comparative calculations as needed.

03 More intuitive result presentation

3. Generate development curves and statistical charts on demand and support result verification through data traceability.

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Workflow and application

Production engineer Single-well production performance Queries, calculations, and charts

Inputs

Production performance data

Treatment and operations records

Well-group and block relationships

Product workflow

1. Natural-language data and report queries
2. Related filtering and indicator calculations
3. Chart presentation and source traceability

Outputs

Priority-well list

Statistical comparison tables

Production trend charts

Production engineers verify indicator definitions and analysis results before using them for priority-well tracking and production meetings.

Application example

Intelligent data Q&A for an oilfield exploration and development data lake

Using the existing exploration and development data lake, JuraSearch performs natural-language data queries and retrieves report excerpts.
It supports requirement clarification, chart presentation, and traceability to data and source text, making results easier to review.

Adoption and integration

Core capabilities: data Q&A, report Q&A, related calculations, and chart generation
Scenario configuration: data interfaces, terminology mappings, and indicator definitions
Integration dependencies: data authorization and specialist review

Discuss a pilot

Application demonstration / pilot discussion
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