

‭Enterprise Multi-Database Natural Language Query‬ ‭Engine‬ ‭Version 1.0‬ ‭Prepared for‬ ‭myOnsite Healthcare, LLC.‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭1‬ |

**‭Document Control‬**

|  |  |  |
| --- | --- | --- |
| **‭Rev. No.‬** | **‭Description of Change‬** | **‭Effective Date‬** |
| ‭1.0‬ | ‭Initial Release‬ | ‭11‬‭st‬‭Aug 2025‬ |

**‭Authored By‬**

|  |  |  |  |
| --- | --- | --- | --- |
| **‭Name‬** | **‭Role‬** | **‭Signature‬** | **‭Date‬** |
| ‭Het‬ | ‭Team Lead‬ |  | ‭11‬‭st‬‭Aug 2025‬ |

**‭Reviewed and approved By‬**

|  |  |  |  |
| --- | --- | --- | --- |
| **‭Name‬** | **‭Role‬** | **‭Signature‬** | **‭Date‬** |
|  |  |  |  |

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭2‬ |

**‭Enterprise Multi-Database Natural‬‭Language Query Engine‬**

**‭Advanced Text-to-SQL System with Dynamic‬‭Schema Adaptation‬**

**‭Project Overview‬**

‭Build a production-grade, multi-database natural language query engine that‬‭can understand complex business questions, generate optimized SQL across‬‭different database systems, handle real-time schema evolution, implement‬‭advanced security controls, and provide enterprise-level governance and‬‭observability.‬

**‭Time Allocation:‬**‭5 hours‬  
**‭Complexity Level:‬**‭Principal Engineer Challenge‬  
**‭Focus Areas:‬**‭Advanced NL-to-SQL, multi-database orchestration,‬‭real-time‬‭schema adaptation, enterprise security‬

**‭System Architecture Requirements‬**

‭You're building an enterprise query engine that must:‬

‭●‬ ‭Support‬**‭multiple database systems‬**‭(PostgreSQL, MySQL,‬‭SQLite,‬ ‭MongoDB) with dialect-specific optimizations‬  
‭●‬ ‭Handle‬**‭complex natural language queries‬**‭including‬‭temporal‬ ‭reasoning, multi-table joins, and business logic inference‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭3‬ |

‭●‬ ‭Implement‬**‭real-time schema introspection‬**‭with automatic‬  
 ‭adaptation to structural changes‬  
‭●‬ ‭Provide‬**‭advanced security controls‬**‭including SQL injection‬  
 ‭prevention, role-based access, and query governance‬  
‭●‬ ‭Support‬**‭concurrent query execution‬**‭with intelligent‬‭caching and‬ ‭performance optimization‬  
‭●‬ ‭Include‬**‭comprehensive audit logging‬**‭and explainable‬‭AI for query‬ ‭reasoning‬  
‭●‬ ‭Handle‬**‭ambiguous queries‬**‭with clarification mechanisms‬‭and‬ ‭confidence scoring‬

**‭Database Environment‬**

**‭Multi-Database Setup‬**

‭You'll work with‬**‭4 interconnected databases‬**‭:‬

‭1.‬**‭PostgreSQL‬**‭(Primary OLTP)‬

‭○‬ **‭Tables:‬**‭customers, orders, products, inventory, suppliers,‬ ‭categories‬  
 ‭○‬ **‭Complex features:‬**‭Foreign keys, indexes, triggers,‬‭stored‬ ‭procedures, views‬  
 ‭○‬ **‭Data volume:‬**‭~100K customer records, ~500K order records‬ ‭○‬ **‭Advanced structures:‬**‭JSON columns, arrays, custom‬‭types,‬ ‭partitioned tables‬  
‭2.‬**‭MySQL‬**‭(Analytics/Reporting)‬

‭○‬ **‭Tables:‬**‭sales\_analytics, customer\_segments,‬  
 ‭product\_performance, regional\_data‬  
‭○‬ **‭Features:‬**‭Window functions, CTEs, materialized views‬  
‭○‬ **‭Data volume:‬**‭~1M aggregated records with time series‬‭data‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭4‬ |

‭○‬ **‭Complex queries:‬**‭Multi-level aggregations, rolling averages,‬ ‭cohort analysis‬  
‭3.‬**‭SQLite‬**‭(Configuration/Metadata)‬

‭○‬ **‭Tables:‬**‭system\_config, user\_preferences, query\_history,‬ ‭schema\_versions‬  
 ‭○‬ **‭Features:‬**‭Full-text search, JSON support, temporary‬‭tables‬ ‭○‬ **‭Dynamic schema:‬**‭Tables and columns change frequently‬‭4.‬**‭MongoDB‬**‭(Document Store)‬

‭○‬ **‭Collections:‬**‭user\_profiles, product\_catalogs, activity\_logs,‬ ‭recommendations‬  
‭○‬ **‭Features:‬**‭Complex nested documents, aggregation pipelines,‬ ‭geospatial queries‬  
‭○‬ **‭Challenge:‬**‭Convert natural language to MongoDB aggregation‬ ‭syntax‬

**‭Advanced Query Dataset‬**

**‭25 progressively complex natural language queries:‬**

**‭Tier 1 - Basic (5 queries):‬**

‭●‬ ‭"Show me all customers from California"‬  
‭●‬ ‭"What's the total revenue this month?"‬

**‭Tier 2 - Multi-table Joins (8 queries):‬**

‭●‬ ‭"Which customers have placed orders worth more than $1000 in the‬ ‭last 6 months but haven't ordered in the past 30 days?"‬  
‭●‬ ‭"Show me the top 5 product categories by revenue growth compared‬ ‭to last quarter"‬

**‭Tier 3 - Temporal & Analytics (7 queries):‬**

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭5‬ |

‭●‬ ‭"Calculate the 3-month rolling average of monthly recurring revenue‬ ‭by customer segment"‬  
‭●‬ ‭"Find customers who exhibited churn behavior patterns similar to our‬ ‭top 10% revenue customers"‬

**‭Tier 4 - Cross-Database Complex (5 queries):‬**

‭●‬ ‭"Compare PostgreSQL order patterns with MongoDB user activity to‬ ‭identify customers likely to upgrade their subscription tier within 60‬ ‭days"‬  
‭●‬ ‭"Generate a cohort analysis of customer lifetime value using data from‬ ‭all databases, segmented by acquisition channel and geographic‬ ‭region"‬

**‭Advanced Technical Requirements‬**

**‭Multi-Database Query Orchestration‬**

‭●‬ **‭Database abstraction layer‬**‭supporting PostgreSQL,‬‭MySQL, SQLite,‬ ‭and MongoDB‬  
‭●‬ **‭Dialect-specific SQL generation‬**‭with database-specific‬  
 ‭optimizations‬  
‭●‬ **‭Cross-database join capabilities‬**‭using temporary staging‬‭and‬ ‭federated queries‬  
‭●‬ **‭Connection pooling and failover‬**‭with automatic load‬‭balancing‬‭●‬ **‭Transaction management‬**‭across multiple database connections‬‭●‬ **‭Query result federation‬**‭and cross-database data correlation‬

**‭Advanced Natural Language Processing‬**

‭●‬ **‭Multi-intent query parsing‬**‭handling compound questions‬‭and‬ ‭sub-queries‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭6‬ |

‭●‬ **‭Business context awareness‬**‭understanding domain-specific‬ ‭terminology and relationships‬  
‭●‬ **‭Temporal reasoning‬**‭interpreting relative dates, time‬‭ranges, and‬ ‭business cycles‬  
‭●‬ **‭Ambiguity resolution‬**‭with confidence scoring and clarification‬ ‭requests‬  
‭●‬ **‭Query expansion‬**‭automatically adding relevant filters‬‭and joins‬ ‭based on business rules‬  
‭●‬ **‭Conversational context‬**‭maintaining query history and‬‭follow-up‬ ‭question handling‬

**‭Dynamic Schema Intelligence‬**

‭●‬ **‭Real-time schema discovery‬**‭across all database systems‬‭with‬ ‭caching‬  
‭●‬ **‭Schema relationship mapping‬**‭automatically detecting‬‭foreign key‬ ‭relationships and business logic‬  
‭●‬ **‭Change detection and adaptation‬**‭handling schema modifications‬ ‭without service interruption‬  
‭●‬ **‭Version management‬**‭tracking schema changes and maintaining‬ ‭query compatibility‬  
‭●‬ **‭Intelligent column mapping‬**‭handling renamed/moved‬‭columns with‬ ‭semantic similarity matching‬  
‭●‬ **‭Constraint awareness‬**‭understanding business rules‬‭encoded in‬ ‭database constraints‬

**‭Enterprise Security Framework‬**

‭●‬ **‭Multi-layered SQL injection prevention‬**‭with parameterized‬‭queries‬ ‭and input validation‬  
‭●‬ **‭Role-based access control‬**‭with fine-grained table‬‭and column‬ ‭permissions‬  
‭●‬ **‭Query governance‬**‭with approval workflows for potentially‬‭expensive‬ ‭operations‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭7‬ |

‭●‬ **‭Data masking and anonymization‬**‭for sensitive information in query‬ ‭results‬  
‭●‬ **‭Audit trail generation‬**‭logging all queries, results,‬‭and user‬  
 ‭interactions‬  
‭●‬ **‭Rate limiting and quota management‬**‭preventing resource‬‭abuse‬

**‭Advanced Query Generation‬**

‭●‬ **‭Multi-step reasoning‬**‭breaking complex questions into‬‭executable‬ ‭query sequences‬  
‭●‬ **‭Optimization hint generation‬**‭suggesting indexes and‬‭query plan‬ ‭improvements‬  
‭●‬ **‭Cost estimation‬**‭predicting query execution time and‬‭resource usage‬‭●‬ **‭Alternative query suggestions‬**‭providing multiple approaches‬‭for‬ ‭ambiguous requests‬  
‭●‬ **‭Business logic integration‬**‭incorporating calculated‬‭fields and‬ ‭derived metrics‬  
‭●‬ **‭Error recovery and self-healing‬**‭automatically fixing‬‭common SQL‬ ‭syntax issues‬

**‭Real-Time Schema Evolution Handling‬**

‭During execution, your system will face‬**‭multiple schema‬‭changes‬**‭:‬

**‭Phase 1 (Hour 2):‬**‭Basic structural changes‬

‭●‬ ‭Rename‬‭customers.email‬‭to‬‭customers.email\_address‬  
‭●‬ ‭Add new table‬‭customer\_segments‬‭with foreign key relationships‬‭●‬ ‭Modify‬‭orders‬‭table to add‬‭discount\_applied‬‭column‬

**‭Phase 2 (Hour 3):‬**‭Complex relationship changes‬

‭●‬ ‭Split‬‭products‬‭table into‬‭products‬‭and‬‭product\_variants‬‭●‬ ‭Add multi-table view‬‭customer\_order\_summary‬  
‭●‬ ‭Introduce partitioning on‬‭orders‬‭table by date range‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭8‬ |

**‭Phase 3 (Hour 4):‬**‭Advanced schema evolution‬

‭●‬ ‭Add MongoDB integration with‬‭user\_behavior‬‭collection‬‭●‬ ‭Introduce PostgreSQL array columns for tags and categories‬‭●‬ ‭Add stored procedures for complex business logic calculations‬‭●‬ ‭Implement row-level security policies‬

**‭Your system must:‬**

‭●‬ **‭Detect changes automatically‬**‭without manual intervention‬  
‭●‬ **‭Adapt queries in real-time‬**‭maintaining correctness‬‭and‬  
 ‭performance‬  
‭●‬ **‭Provide graceful degradation‬**‭when schemas are temporarily‬ ‭incompatible‬  
‭●‬ **‭Maintain query history compatibility‬**‭ensuring previous‬‭queries still‬ ‭work‬  
‭●‬ **‭Update cached schema information‬**‭without service interruption‬

**‭Extreme Implementation Challenges‬**

**‭Multi-Database Query Federation‬**

‭●‬ **‭Cross-database joins:‬**‭Query data from PostgreSQL customers‬‭table‬ ‭and MongoDB user behavior collection simultaneously‬  
‭●‬ **‭Data type harmonization:‬**‭Convert between SQL and NoSQL‬‭data‬ ‭structures seamlessly‬  
‭●‬ **‭Transaction coordination:‬**‭Maintain ACID properties‬‭across multiple‬ ‭database systems‬  
‭●‬ **‭Performance optimization:‬**‭Minimize cross-database‬‭data transfer‬ ‭and optimize execution plans‬

**‭Advanced Natural Language Understanding‬**

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭9‬ |

‭●‬ **‭Multi-intent parsing:‬**‭"Show me revenue trends AND identify‬ ‭underperforming products AND suggest optimization strategies"‬‭●‬ **‭Contextual ambiguity resolution:‬**‭Handle pronouns,‬‭temporal‬ ‭references, and business domain terminology‬  
‭●‬ **‭Conversational query chaining:‬**‭Support follow-up questions‬‭that‬ ‭reference previous query results‬  
‭●‬ **‭Voice input processing:‬**‭Accept and process natural‬‭language‬ ‭queries via voice API integration‬

**‭Real-Time Schema Evolution‬**

‭●‬ **‭Live migration handling:‬**‭Continue serving queries‬‭while schema‬ ‭changes are applied‬  
‭●‬ **‭Backward compatibility:‬**‭Ensure existing queries continue‬‭to work‬ ‭during and after schema changes‬  
‭●‬ **‭Semantic column matching:‬**‭Automatically map renamed‬‭columns‬ ‭based on data content and usage patterns‬  
‭●‬ **‭Relationship inference:‬**‭Detect new foreign key relationships‬‭and‬ ‭business logic automatically‬

**‭Enterprise Security & Governance‬**

‭●‬ **‭Dynamic data masking:‬**‭Apply different masking rules‬‭based on user‬ ‭roles and query context‬  
‭●‬ **‭Query approval workflows:‬**‭Route potentially expensive‬‭or sensitive‬ ‭queries through approval processes‬  
‭●‬ **‭Compliance reporting:‬**‭Generate audit reports for SOX,‬‭GDPR, and‬ ‭industry-specific regulations‬  
‭●‬ **‭Zero-trust architecture:‬**‭Verify permissions for every‬‭query‬  
 ‭component and data access‬

**‭Advanced Performance Optimization‬**

‭●‬ **‭Intelligent query caching:‬**‭Cache results at multiple‬‭levels with‬ ‭invalidation based on data changes‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭10‬ |

‭●‬ **‭Predictive prefetching:‬**‭Anticipate follow-up queries and pre-execute‬ ‭common patterns‬  
‭●‬ **‭Cost-based routing:‬**‭Route queries to optimal database‬‭replicas‬ ‭based on current load and costs‬  
‭●‬ **‭Real-time performance tuning:‬**‭Automatically adjust‬‭query‬  
 ‭execution strategies based on performance metrics‬

**‭Schema Evolution Stress Test‬**

‭Your system will face‬**‭continuous schema changes‬**‭throughout‬‭development:‬

**‭Hour 1:‬**‭Initial setup with stable schemas across all‬‭databases‬**‭Hour 2:‬‭First‬‭Evolution Wave‬**

‭●‬ ‭PostgreSQL: Rename 3 columns, add 2 new tables with complex‬ ‭foreign key relationships‬  
‭●‬ ‭MySQL: Partition existing tables, add materialized views‬  
‭●‬ ‭SQLite: Add full-text search indices, modify constraint definitions‬‭●‬ ‭MongoDB: Restructure document schemas, add new nested field‬ ‭structures‬

**‭Hour 3:‬‭Complex Relationship Changes‬**

‭●‬ ‭Cross-database foreign key simulation through application logic‬‭●‬ ‭Introduction of database-specific advanced features (PostgreSQL‬ ‭arrays, MySQL JSON functions)‬  
‭●‬ ‭Schema versioning with multiple concurrent versions active‬

**‭Hour 4:‬‭Enterprise Feature Integration‬**

‭●‬ ‭Row-level security policy implementation‬  
‭●‬ ‭Database-specific stored procedures and functions‬‭●‬ ‭Real-time replication setup with read/write splitting‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭11‬ |

‭●‬ ‭Advanced indexing strategies (partial indexes, functional indexes)‬

**‭Hour 5:‬‭Stress Testing & Recovery‬**

‭●‬ ‭Simulate database connectivity issues and failover scenarios‬‭●‬ ‭Handle concurrent schema changes from multiple sources‬‭●‬ ‭Test query adaptation under high concurrent load‬  
‭●‬ ‭Validate data consistency across all database systems‬

**‭Success Metrics & Expectations‬**

**‭Functional Requirements (Must Have)‬**

‭●‬ **‭Query Accuracy:‬**‭>90% correct SQL generation for Tier‬‭1-3 queries,‬ ‭>75% for Tier 4‬  
‭●‬ **‭Schema Adaptation:‬**‭Automatically handle all schema‬‭changes within‬ ‭30 seconds‬  
‭●‬ **‭Multi-Database Support:‬**‭Successfully execute queries‬‭across all 4‬ ‭database systems‬  
‭●‬ **‭Security Compliance:‬**‭Pass all SQL injection tests‬‭and access control‬ ‭validations‬  
‭●‬ **‭Performance Standards:‬**‭<3 seconds for simple queries,‬‭<10‬ ‭seconds for complex cross-database operations‬

**‭Advanced Capabilities (Differentiation Factors)‬**

‭●‬ **‭Natural Language Sophistication:‬**‭Handle ambiguous‬‭queries with‬ ‭confidence scoring >0.8‬  
‭●‬ **‭Business Intelligence:‬**‭Provide actionable insights‬‭and alternative‬ ‭query suggestions‬  
‭●‬ **‭Explainable AI:‬**‭Generate clear explanations for query‬‭reasoning and‬ ‭decision-making‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭12‬ |

‭●‬ **‭Enterprise Readiness:‬**‭Comprehensive audit logging, compliance‬ ‭reporting, and governance workflows‬  
‭●‬ **‭Innovation Factor:‬**‭Creative solutions to unique challenges‬‭like voice‬ ‭input or predictive querying‬

**‭Production-Grade Excellence‬**

‭●‬ **‭Monitoring & Observability:‬**‭Real-time dashboards with‬‭predictive‬ ‭alerting‬  
‭●‬ **‭Scalability:‬**‭Handle 1000+ concurrent queries without‬‭performance‬ ‭degradation‬  
‭●‬ **‭Reliability:‬**‭99.9% uptime with graceful degradation‬‭during failures‬‭●‬ **‭Cost Optimization:‬**‭Intelligent resource usage with‬‭cost tracking and‬ ‭budgeting‬  
‭●‬ **‭Security Excellence:‬**‭Zero vulnerabilities in penetration‬‭testing‬

**‭Deliverables‬**

**‭1. Production System‬**

‭●‬ **‭Multi-interface access:‬**‭REST API, GraphQL endpoint,‬‭WebSocket‬ ‭streaming, and CLI‬  
‭●‬ **‭Enterprise dashboard:‬**‭Real-time monitoring, query‬‭analytics, and‬ ‭administrative controls‬  
‭●‬ **‭Mobile-responsive UI:‬**‭Web interface for natural language‬‭query‬ ‭input and result visualization‬

**‭2. Comprehensive Test Suite‬**

‭●‬ **‭Unit tests:‬**‭>85% code coverage with edge case handling‬  
‭●‬ **‭Integration tests:‬**‭End-to-end workflow validation‬‭across all database‬ ‭systems‬  
‭●‬ **‭Performance benchmarks:‬**‭Load testing with scalability‬‭analysis‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬

|  |  |
| --- | --- |
|  | ‭System Requirement Specifications‬ |
| ‭Document Name :‬**‭Enterprise Multi-Database Natural‬‭Language Quer‬‭Engine‬** |
|  | ‭Page No.‬‭13‬ |

‭●‬ **‭Security validation:‬**‭Penetration testing and vulnerability assessment‬‭●‬ **‭Schema evolution tests:‬**‭Automated testing of all schema‬‭change‬ ‭scenarios‬

**‭3. Enterprise Documentation‬**

‭●‬ **‭System architecture:‬**‭Detailed technical design with‬‭decision‬ ‭rationale‬  
‭●‬ **‭API documentation:‬**‭Interactive documentation with‬‭live examples‬‭●‬ **‭Deployment guide:‬**‭Production deployment with high-availability‬ ‭configuration‬  
‭●‬ **‭Security documentation:‬**‭Security controls, threat‬‭model, and‬ ‭compliance mapping‬  
‭●‬ **‭Performance tuning:‬**‭Optimization strategies and troubleshooting‬ ‭guide‬

**‭4. Business Intelligence Layer‬**

‭●‬ **‭Query analytics:‬**‭Usage patterns, performance trends,‬‭and‬ ‭optimization opportunities‬  
‭●‬ **‭Business insights:‬**‭Automated detection of data anomalies‬‭and‬ ‭business opportunities‬  
‭●‬ **‭Cost analysis:‬**‭Query cost tracking with optimization‬  
 ‭recommendations‬  
‭●‬ **‭Compliance reporting:‬**‭Automated audit reports and‬‭regulatory‬ ‭compliance validation‬

‭© 2025 myOnsite Healthcare LLC‬

‭\*\* All rights Reserved \*\*‬