 added three new optimization modules to enhance the performance of the User Service:

1. **Query Optimizer (query-optimizer.js)**:
   * Query plan analysis and optimization
   * Query performance tracking
   * Automatic index suggestions
   * Query statistics collection
   * Performance metrics tracking
2. **Resource Manager (resource-manager.js)**:
   * Memory usage monitoring
   * CPU usage tracking
   * Event loop lag detection
   * Automatic garbage collection
   * Resource usage throttling
   * System metrics collection
3. **Optimization Strategies (optimization-strategies.js)**:
   * Advanced query caching
   * Connection pool optimization
   * Batch processing
   * Response compression
   * Dynamic resource allocation
   * Performance monitoring

Key Features:

1. **Query Optimization**:
   * Query plan analysis
   * Performance tracking
   * Automatic optimization suggestions
   * Query caching
   * Statistics collection
2. **Resource Management**:
   * Memory monitoring
   * CPU tracking
   * Event loop monitoring
   * Automatic recovery
   * Resource throttling
3. **Performance Strategies**:
   * Batch processing
   * Connection pooling
   * Response optimization
   * Dynamic scaling
   * Metrics collection

The service now has:

1. Intelligent query optimization
2. Efficient resource management
3. Advanced optimization strategies
4. Comprehensive monitoring