Whale Alert Handler Tasks

Setup Tasks

Initial Configuration

- [ ] Install MindsDB HTTP handler for Whale Alert
- [ ] Configure Whale Alert API key
- [ ] Set up API endpoints and parameters
- [ ] Configure timeout and retry settings
- [ ] Test basic API connectivity

Handler Creation

- [ ] Create Whale Alert database handler
- [ ] Configure API authentication headers
- [ ] Set up transaction monitoring endpoints
- [ ] Validate handler creation
- [ ] Test handler connectivity

Table Setup

- [ ] Create transactions view
- [ ] Create status view
- [ ] Create blockchains view
- [ ] Create alerts configuration view
- [ ] Validate all views

Testing Tasks

Connection Tests

- [ ] Test handler connection
- [ ] Validate API authentication
- [ ] Test network connectivity
- [ ] Verify response formats
- [ ] Test error handling

Data Retrieval Tests

- [ ] Test large transaction retrieval
- [ ] Test blockchain support data
- [ ] Test API status monitoring
- [ ] Test transaction filtering
- [ ] Validate data accuracy

Performance Tests

- [ ] Measure query response times
- [ ] Test real-time data retrieval

- [ ] Validate rate limiting
- [ ] Test concurrent requests
- [ ] Monitor memory usage

Error Handling Tests

- [ ] Test invalid API key
- [ ] Test network timeouts
- [ ] Test rate limit exceeded
- [ ] Test malformed requests
- [ ] Test service unavailable

Configuration Tasks

API Management

- [ ] Set up API key rotation
- [ ] Configure rate limiting
- [ ] Set up monitoring alerts
- [ ] Configure retry logic
- [ ] Set up error logging

Alert Configuration

- [ ] Set up transaction thresholds
- [ ] Configure blockchain filters
- [ ] Set up real-time alerts
- [ ] Configure notification rules
- [ ] Set up alert escalation

Data Validation Tasks

Data Quality

- [ ] Validate transaction amounts
- [ ] Check address accuracy
- [ ] Verify timestamp consistency
- [ ] Test blockchain identification
- [ ] Validate USD conversions

Schema Validation

- [ ] Verify data types
- [ ] Check required fields
- [ ] Validate data ranges
- [ ] Test null handling
- [ ] Verify data formats

Optimization Tasks

Performance Optimization

- [ ] Optimize query patterns
- [ ] Implement data caching
- [ ] Configure request optimization
- [ ] Set up query batching
- [ ] Monitor resource usage

Monitoring Setup

- [ ] Set up health checks
- [ ] Configure performance metrics
- [ ] Set up error tracking
- [ ] Create usage dashboards
- [ ] Set up alerting

Documentation Tasks

Technical Documentation

- [ ] Document API endpoints
- [ ] Create query examples
- [ ] Document alert configurations
- [ ] Create troubleshooting guide
- [ ] Document best practices

User Documentation

- [ ] Create setup guide
- [ ] Document common queries
- [ ] Create FAQ section
- [ ] Document limitations
- [ ] Create integration guide

Completion Criteria

Functional Requirements

- [ ] Handler connects successfully
- [ ] Transaction data retrieval works
- [ ] Alert system functional
- [ ] Error handling robust
- [ ] Performance acceptable

Non-Functional Requirements

- [ ] Response time < 10 seconds
- [ ] 99% uptime achieved
- [ ] Real-time data delivery
- [ ] Documentation complete

• [ ] Tests pass consistently

Validation Checklist

Pre-Production

• [ ] All tests passing

• [ ] Performance benchmarks met

• [ ] Alert system tested

• [ ] Documentation reviewed

• [ ] Monitoring configured

Production Ready

• [ ] Load testing completed

• [ ] Real-time alerts tested

• [ ] Monitoring alerts configured

• [ ] Support procedures documented

• [ ] Escalation procedures tested

Success Metrics

• **Uptime**: > 99%

• **Response Time**: < 10 seconds average

• **Alert Accuracy**: > 95%

• **Error Rate**: < 1%

• **Coverage**: 20+ blockchains

Known Issues & Limitations

• API key required for access

• Rate limiting applies (varies by plan)

• Minimum transaction thresholds

• Limited historical data

• Real-time data depends on network

Support & Troubleshooting

Common Issues

1. **API Key Invalid**: Check key format and permissions

2. **No Transactions**: Adjust minimum value threshold

3. **Rate Limit Exceeded**: Implement proper throttling

4. **Missing Blockchains**: Verify supported networks

5. **Delayed Data**: Check network congestion

Escalation Path

1. Check Whale Alert status page

2. Verify API key and permissions

3. Contact Whale Alert support

4. Check MindsDB HTTP handler docs

5. Create GitHub issue if needed