agents

_id: ObjectId agent_id: String name: String email: String department: String status: String specializations: [String] created_at: Date

Support System Collections

performance_metrics \

avg_response_time: NumberInt resolution_rate: Number customer_rating: Number tickets_handled: NumberInt

trading_alerts

_id: ObjectId user_id: String strategy_id: String instrument: String alert_type: String message: String confidence_score: Number generated_at: Date sent_at: Date is_read: Boolean

market_data_snapshot

price: Decimal128 volume: NumberLong indicators: Object

trigger_conditions

rsi_threshold: Number price_change: Number volume_spike: Boolean Market Data Time-Series Collection

market_data (Time-Series)

_id: ObjectId instrument: String (meta) timestamp: Date (time) source: String volume: NumberLong spread: Decimal128 tick_count: NumberInt

prices

open: Decimal128 high: Decimal128 low: Decimal128 close: Decimal128 bid: Decimal128 ask: Decimal128

indicators

sma_20: Decimal128 ema_12: Decimal128 ema_26: Decimal128 rsi: Decimal128 macd: Decimal128 bollinger_upper: Decimal128 bollinger_lower: Decimal128 atr: Decimal128

market_condition

volatility_regime: String trend_direction: String liquidity_level: String

Analytics Collections

strategy_performance

_id: ObjectId strategy_id: String date: Date daily_pnl: Decimal128 trades_count: NumberInt win_rate: Number avg_trade_duration: NumberInt max_drawdown: Number sharpe_ratio: Number volatility: Number market_conditions: [String]

risk_metrics

var_95: Decimal128 expected_shortfall: Decimal128 beta: Number

execution_quality

avg_slippage: Number avg_execution_time: NumberInt fill_rate: Number

market_analysis

_id: ObjectId instrument: String analysis_date: Date timeframe: String

technical_signals

trend_direction: String momentum: String support_levels: [Number] resistance_levels: [Number]

volatility_analysis \

current_volatility: Number volatility_percentile: Number volatility_regime: String

liquidity_metrics

bid_ask_spread: Number market_depth: Number trading_volume: NumberLong

predictions

price_direction: String confidence_level: Number time_horizon: String