Auto Healing DB

Auto Healing DB* is a comprehensive solution that addresses critical business, technical, and user experience challenges by enhancing database support and overall system performance.

Need for this offering

Organizations face frequent system instability, high maintenance costs, scalability issues, and financial losses due to inefficiencies and downtime. These challenges impact user experience, reduce productivity, and hinder business agility, necessitating a robust solution to ensure seamless database operations and improved system performance.

Features

- **Retry operations:** Automatically retries failed operations for continuity
- **Perform load leveling**: Distributes workloads evenly to prevent bottlenecks
- **Auto fail-over:** Ensures high availability with automatic fail-over mechanisms
- **Checkpoint long-running transactions:** Monitors and manages long-running transactions
- **Enable automated problem detection:** Proactively detects and resolves issues
- **Adaptive self-managed algorithm:** Implements self-learning algorithms for optimization
- **Auto resource tuning:** Dynamically adjusts resource allocation for optimal performance
- **Query-driven auto-indexing:** Automatically indexes queries to enhance retrieval speeds
- **Auto provisioning framework for cloud databases:** Streamlines provisioning of cloud databases
- **Self-tuning of SQL queries:** Automatically optimizes SQL queries for better execution times

Key differentiators

- Addresses a wide range of business, technical, and user experience challenges
- Implements adaptive, self-learning algorithms for continuous optimization
- Provides an auto-provisioning framework specifically for cloud databases
- Proactively handles issues before they impact users

Benefits

- Improves user experience and satisfaction with better system efficiency
- Minimizes manual interventions, boosting operational efficiency
- Reduces system downtimes, enabling businesses to capitalize on opportunities
- Lowers operational costs and improves resource allocation
- Streamlines processes, enhancing business agility

Use cases

- **E-commerce:** Ensures high availability and quick response times, improving customer satisfaction and sales
- **Financial services:** Enhances transaction processing and reduces downtime, ensuring reliable service
- **Healthcare:** Ensures seamless access to critical data, improving patient care and operational efficiency
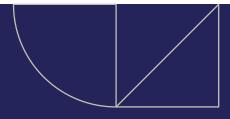- **Telecommunications:** Optimizes network management and service delivery, reducing operational disruptions
- **Retail:** Enhances inventory management and customer service, boosting efficiency and sales

* Note: Auto Healing DB is currently deployed as a proof of concept and should be considered a phased development

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