



AI/DB workload

## AI Service

AI Algorithm

AI Model

AI Procedure

AI Automation

AI Discovery

## DB Service

### Workload Management

Workload  
Modeling

Workload  
Scheduling

Workload  
Prediction

### SQL Optimization

SQL  
Rewriter

Index  
Advisor

View  
Advisor

### Database Security

Intelligent Masking

Intelligent Auditing

Intelligent Detecting

### Database Maintenance

Performance  
Monitoring

Configuration  
Optimization

Data  
Migration

Fault  
Tolerance

### DB-based AI Kernel

User Defined Function

Materialized View

Stored Procedure

### Intelligent DB Kernel

Self-configuring

Self-healing

Self-optimizing

Self-protecting

Self-inspecting

Self-organizing

## Heterogeneous Computing Framework

Tensor Model

AI chips

Multi-core CPUs

ARM Array

Relational Model

## Life Cycle

1. DB Initialization

2. DB Design

3. DB Implementation

4. DB Evaluation

5. DB Operation and Maintenance

# AI-Native Database