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GB/T 47343-2026

**Information technology - Technical requirements for cloud
native relational database management systems**

信息技术 云原生关系数据库管理系统技术要求

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Foreword

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1 Scope

GB/T 47343-2026 is the Chinese national standard covering the cloud-native relational database - separation of compute from storage, elastic scaling, multi-tenancy, high availability across zones and the backup and recovery guarantees, which is a different set of requirements from a database installed on a server. First edition, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document provides a technical reference architecture for cloud-native relational database management systems (hereinafter referred to as "cloud-native databases"), and specifies the cloud-native... Requirements for basic functions, elastic scaling, resource management, high availability, security, intelligent operation and maintenance, and self-service of the database. This document applies to the design, development, application, and testing of cloud-native databases.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 28821 Technical Requirements for Relational Data Management Systems

3 Terms and Definitions

The terms and definitions defined in GB/T 28821 and the following terms and definitions apply to this document.

3.1 database A dataset that supports one or more application domains and is organized according to a conceptual structure, which describes the characteristics of the data and their corresponding data. The connections between entities. [Source: GB/T 5271.17-2010, 17.01.01]

3.2 A system based on hardware and software for defining, monitoring, manipulating, controlling, managing, and using databases. [Source: GB/T 5271.17-2010, 17.01.03]

3.3 Cloud Native A collection of technologies and methods for designing and building applications based on cloud computing architecture. [Source: GB/T 44158-2024, 3.2]

3.4 A relational database management system designed and built based on cloud computing architecture.

3.5 Serverless Database users directly utilize computing, memory, and storage resources, without needing to manage physical resources such as servers.

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