

AWS Database Services

AWS Database Services are fully managed and scalable database solutions for applications. AWS offers a wide range of database options , mainly - Amazon RDS, DynamoDB, ElasticCache, Redshift.

AWS database services mainly into two categories: Relational and Non-Relational.

Relational Database - It stores data in a tabular format with rows and columns and uses SQL query language to query the data. Each field in the table represents a data value , rows contain records and columns with attributes. It enables developers to define databases' schema , relations and constraints between rows and columns. Highly structured and having more data accuracy and consistency.

Example - Amazon RDS

Non-Relational Database - It is commonly used to handle large volumes of unstructured or semi-structured data , and also uses a variety of data models for accessing and managing data. It offers high scalability as it can distribute their workload across many nodes more easily.

Example - Amazon DynamoDB

Amazon RDS - Handles structured and tabular data. It automates tasks like provisioning, setup, patching, and backups.

Amazon DynamoDB - It is a fast, fully managed NoSQL database service that supports flexible data models and seamless scalability.

AMazon ElasticCache - This type makes it easy to deploy, operate, and scale popular open source compatible in-memory data stores.

Amazon Redshift - This type is a quick and powerful , completely managed and petabyte-scale data warehouse solution in the cloud.