

CompTIA

# DataSys+

## What is it?

The CompTIA DataSys+ exam sets a unified standard of skills for the successful management and securing of data assets. It covers what database administrators need to deploy, manage, and maintain systems, as well as securing those systems and data assets.

## Set yourself apart with CompTIA DataSys+

- **The Only Vendor Neutral Database Certification**  
Develop and validate data system skills regardless of vendor tools.
- **A Standardized Skill Set**  
DataSys+ defines and confirms a consistent skill set appropriate for the job role of database administrator.
- **An Ever-Growing Need**  
The constant acquisition of data demands qualified administrators to manage and secure those assets.

## Prove your skills with CompTIA DataSys+

Validate the skills required for high-stakes database management.





The CompTIA DataSys+ (DS0-001) certification exam is vendor neutral and covers what database administrators need to deploy, manage, and maintain systems, including employing the fundamentals of scripting and programming in a database environment while using security and business continuity best-practices. The exam covers the following objectives:

- **Database Fundamentals** - Gain a solid understanding of database structure types and the ability to develop, modify and run code, providing the groundwork for database administrators to gather, store, and drive data assets.



- **Database Deployment** - Compare and contrast the various aspects of database planning and design and explain the various phases of the implementation, testing, and deployment of collected data.
- **Database Management and Maintenance** - Understand the purpose of monitoring and reporting database performance, explain common database maintenance processes, and produce critical documentation.
- **Data and Database Security** - Secure databases, protect against attacks, and control authorization while ensuring governance and regulatory compliance.
- **Business Continuity** - Prepare for and recover from incidents by implementing best practices for backup and restoration of data.

### How does CompTIA DataSys+ compare to alternatives?

				
<b>Certification</b>	<b>CompTIA DataSys+</b>	<b>MCSA: Azure Database Administrator</b>	<b>Oracle Database SQL Certified Associate</b>	<b>IBM Associate Certified DBA - Db2 12 for z/OS Fundamentals</b>
<b>Performance-based Questions</b>	Yes	No	No	No
<b>Vendor Neutral?</b>	Yes	No	No	No
<b>Experience Level</b>	Foundational	Intermediate	Entry-Level	Entry-Level
<b>Exam Focus</b>	Deploy, manage, and maintain databases	Implement and manage cloud-native & hybrid data platform solutions built on SQL Server and SQL database services	Demonstrate understanding of fundamental SQL concepts needed to undertake any database project	Acquire the basic skills to administer a Z/OS database
<b>Training Products</b>	Full suite of online test prep tools, books, labs, and instructor-led training	Self-paced and instructor-led training	Self-paced training	Instructor-led training

### Jobs that use CompTIA DataSys+

#### One Job Role: Database Administrator (DBA)

Many job titles:

- Sr. Database Administrator
- System Database Administrator
- Task-Oriented Database Administrator
- Application Database Administrator
- Cloud Database Administrator
- Specialist Database Administrator
- Performance Database Administrator
- Database Manager
- SQL Database Administrator
- Salesforce Database Administrator
- Oracle Database Administrator
- Database Manager
- Database Designer
- Data Warehouse Specialist
- Data Warehouse Developer

## Technical skills covered in the certification and training

<p>Database Fundamentals <b>24%</b></p> <ul style="list-style-type: none"> <li>• Compare and contrast database structure types.</li> <li>• Develop, modify, and run SQL code.</li> <li>• Compare and contrast scripting methods and scripting environments.</li> <li>• Explain the impact of programming on database operations.</li> </ul>	<p>Database Deployment <b>16%</b></p> <ul style="list-style-type: none"> <li>• Compare and contrast aspects of database planning and design.</li> <li>• Explain database implementation, testing, and deployment phases.</li> </ul>	<p>Management and Maintenance <b>25%</b></p> <ul style="list-style-type: none"> <li>• Explain the purpose of monitoring and reporting for database management and performance.</li> <li>• Explain common database maintenance processes.</li> <li>• Produce documentation and use relevant tools.</li> <li>• Implement data management tasks.</li> </ul>	<p>Data and Database Security <b>23%</b></p> <ul style="list-style-type: none"> <li>• Explain data security concepts.</li> <li>• Explain the purpose of governance and regulatory compliance.</li> <li>• Implement policies and best practices related to authentication and authorization.</li> <li>• Explain the purpose of database infrastructure security.</li> <li>• Describe types of attacks and their effects on data systems.</li> </ul>	<p>Business Continuity <b>12%</b></p> <ul style="list-style-type: none"> <li>• Explain the importance of disaster recovery and relevant techniques.</li> <li>• Explain backup and restore best practices and processes.</li> </ul>
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## Organizations that have contributed to the development of CompTIA DataSys+

- City of Alexandria
- University of Utah
- Uganda Registrations Services Bureau
- Blue Owl LLC
- Cisco Systems Inc
- IBM
- Pom Analytics, Inc.
- Critical River
- EITZAC LLC
- TAPFIN

## Research and Statistics

### U.S. Data Market Stats

- There were more than 23,400 job postings by US employers for Database Administrators during the 12-month period April 2022 - March 2023.
- Employers listed more than 2.1 million job postings in the US seeking candidates with database related skills over the 12-month period ending March 2023. (i.e., these skills are important to many other roles.)

### Database Administrator Job Role Stats

- At nearly double (or 2x) the national estimated growth rate, tech jobs are projected to be among the fastest-growing occupations over the 10-year period 2023-2033.
- The need for Database Administrators will continue to grow, reaching about 163,000 by 2033. The 10-year projected growth rate for Database Administrators is 35% above the national rate.

(Source: CompTIA State of the Tech Workforce 2023 | U.S. Bureau of Labor Statistics | Lightcast)

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### ✳ Get trained and certified by CompTIA.

First and foremost, we are an education company. CompTIA provides training and has awarded more than 3 million certifications in areas such as cybersecurity, networking, cloud computing and technical support.

The Computing Technology Industry Association (CompTIA) is a leading voice and advocate for the \$5 trillion global information technology ecosystem. CompTIA has awarded more than 3 million certifications worldwide in areas such as cybersecurity, networking, cloud computing and technical support and helps unlock the potential of tech professionals with industry-leading certifications, courses, and expert knowledge.

