

# Database Administrators and Architects

SOC: 15-1242 • Career Profile Report

## ■ Key Facts

<b>\$123,100</b> Median Salary	<b>144,900</b> Employment	<b>+4.0%</b> Growth Rate
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## ■ Requirements & Salary Range

Education: Bachelor's degree

## ■ Automation Risk Assessment

**Low Risk** - 14.0% probability of being automated in the next 10-20 years.  
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■ Work-Life Balance

**9.8/10** - Excellent work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	7.4/10	Investigative	9.2/10
Artistic	4.6/10	Social	5.4/10
Enterprising	5.6/10	Conventional	6.8/10

## ■ Top Skills Required

Analytical skills, Communication skills, Detail oriented, Problem-solving skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Database Administrators and Architects typically perform the following tasks:

- Modify existing databases and database management systems or direct programmers and analysts to make changes.
- Plan, coordinate, and implement security measures to safeguard information in computer files against accidental or unauthorized damage, modification or disclosure.
- Plan and install upgrades of database management system software to enhance database performance.
- Specify users and user access levels for each segment of database.
- Test changes to database applications or systems.
- Test programs or databases, correct errors, and make necessary modifications.
- Train users and answer questions.
- Provide technical support to junior staff or clients.
- Approve, schedule, plan, and supervise the installation and testing of new products and improvements to computer systems, such as the installation of new databases.
- Develop standards and guidelines for the use and acquisition of software and to protect vulnerable information.
- Write and code logical and physical database descriptions and specify identifiers of database to management system, or direct others in coding descriptions.
- Develop data models describing data elements and how they are used, following procedures and using pen, template, or computer software.
- Select and enter codes to monitor database performance and to create production databases.
- Identify, evaluate and recommend hardware or software technologies to achieve desired database performance.
- Review procedures in database management system manuals to make changes to database.
- Identify and evaluate industry trends in database systems to serve as a source of information and advice for upper management.
- Review workflow charts developed by programmer analyst to understand tasks computer will perform, such as updating records.
- Revise company definition of data as defined in data dictionary.

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Source: <https://www.bls.gov/ooh/computer-and-information-technology/database-administrators.htm>