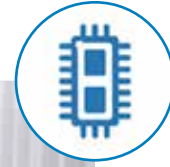# Database Administrator

About my job:

I use professional software to store and organize data, which may include financial information and customer shipping records. I ensure that data is available to users but remains secure from unauthorized access.

What makes my job great?

Job growth:
Employment of database administrators is projected to grow 15 percent from 2012 to 2022.

Short-term training:
Database administrators usually have a bachelor's degree in an information- or computer- related subject. Before becoming an administrator, these workers often work in a related field.

Good pay:
The median salary is $61,100 a year. (That means 50 percent earn less than this number, and the other 50 percent earn more.) High-level database administrators involving management positions can earn approximately $100,000 per year.

Benefits:
Most database administrators work full time with benefits that may include:

- **Healthcare**
- **Paid vacation**
- **Tuition reimbursement**
- **Opportunities to work from home**

What I do every day:

- Try out programs or databases, correct errors and make the required modifications

- Establish and oversee database operations and infrastructure

- Modify existing database management systems and direct programmers and analysts

- Coordinate and implement security measures to secure computer files against accidental or unauthorized damage, modification or disclosure

- Work with colleagues as a team to coordinate database development and determine project scope and limitations

- Develop and code logical and physical database descriptions and specify identifiers of database to management system

- Specify users and user access levels for each segment of database

- Schedule and supervise improvements to computer systems such as the installation of new databases

- Establish guidelines for the use and acquisition of software and to protect information

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How can you become a database administrator?

Academic/training credentials:

Bachelor's degree in information or computer science is required, as well as certificates from product vendors

Other credentials:

Some software vendors offer certification programs that can provide advantages for job seekers as well as for advancement. These include:

- Oracle Database Administrator Certification
- Microsoft SQL Server Certification

Work experience/internships:

Work and internship experience is not required but will advance your job search. Many companies are looking for interns/apprentices. To find out more about local opportunities, contact Lakeland Career Services at 440.525.7222.

Skills and requirements:

- Database administrators usually work full time
- Ability to work off hours, including nights and evenings
- Analytical thinking skills
- Problem-solving skills

Where you can find jobs:

- Online job boards
- Career fairs
- Department of Career Services at colleges
- Company websites
- Social media
- Computer user groups

Potential job titles:

- Database administrator (DBA)
- Database analyst
- Database administration manager
- Database coordinator
- Database programmer
- Information systems manager
- Management information systems director (MIS director)
- Programmer analyst, systems manager

Potential local employers:

- Cornerstone IT
- Federal Reserve Randstad Technologies
- Key Bank
- Local small businesses
- Parker-Hannifin
- Progressive Insurance
- Sherwin-Williams
- Steris

P 2 **Database Administrator**

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Local educational opportunities

Two-year institutions:

- Lakeland Community College: Associate of Applied Business in IT and Computer Science (database administrator concentration)
    - IT specialist certificate
    - IT professional certificate

    Contact Lakeland Information Technology & Computer Science Department Chair at 440.525.7265
- Cuyahoga Community College: Associate of Applied Business in Information Technology Programming and Technology

Four-year institutions:

- Holden University Center of Lakeland Community College/Kent State University: Bachelor of Technical and Applied Studies, Computer Technology General Concentration
- Cleveland State University: Bachelor of Science in Computer and Information Science
- Kent State University: Bachelor of Science in Computer Science
- University of Akron: Bachelor of Science in Computer Science

Ohio College Tech Prep
Building Quality Career Pathways

High School Tech Prep:

- A-TECH: computer information systems program
- Auburn Career Center: information support and services
- Lake Shore Compact: computer information systems program
- Excel TECC: information technology and programming program
- Contact your high school guidance office

Coursework per educational entity:

Secondary pathway:
Information Technology

Postsecondary program:
Database Administrator

An Example of Course with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	World Languages
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	IT Fundamentals	Programming Logic	Information Security
	12	English IV	Trigonometry/Calculus	Physics	U.S. Government	Database Applications	Object Oriented Programming	Microsoft Windows
Postsecondary	Year 1 1st Semester	Introduction to Business	English Composition	First Year Experience	Computers and Information Processing	Programming Logic	Using Microsoft Windows	Network+ and Network Essentials
	Year 1 2nd Semester	Business Communications	Red Hat Academy System Administration I	Survey of College Mathematics	Introduction to SQL	Oracle PL/SQL Programming	Windows Configuration	
	Year 2 1st Semester	Java Programming I	Microsoft SQL Concepts	Oracle Database Administration	Installing and Configuring Windows Server 2012	Health Fitness	Arts and Humanities Elective	
	Year 2 2nd Semester	Microsoft SQL Server Administration	Information and Computer Science Capstone	Business Statistics I	Natural Science Elective	Social and Behavioral Science Elective	Technical Elective	

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

11/2014

Ohio | Department of Education

Ohio MEANS Jobs

Ohio | Board of Regents
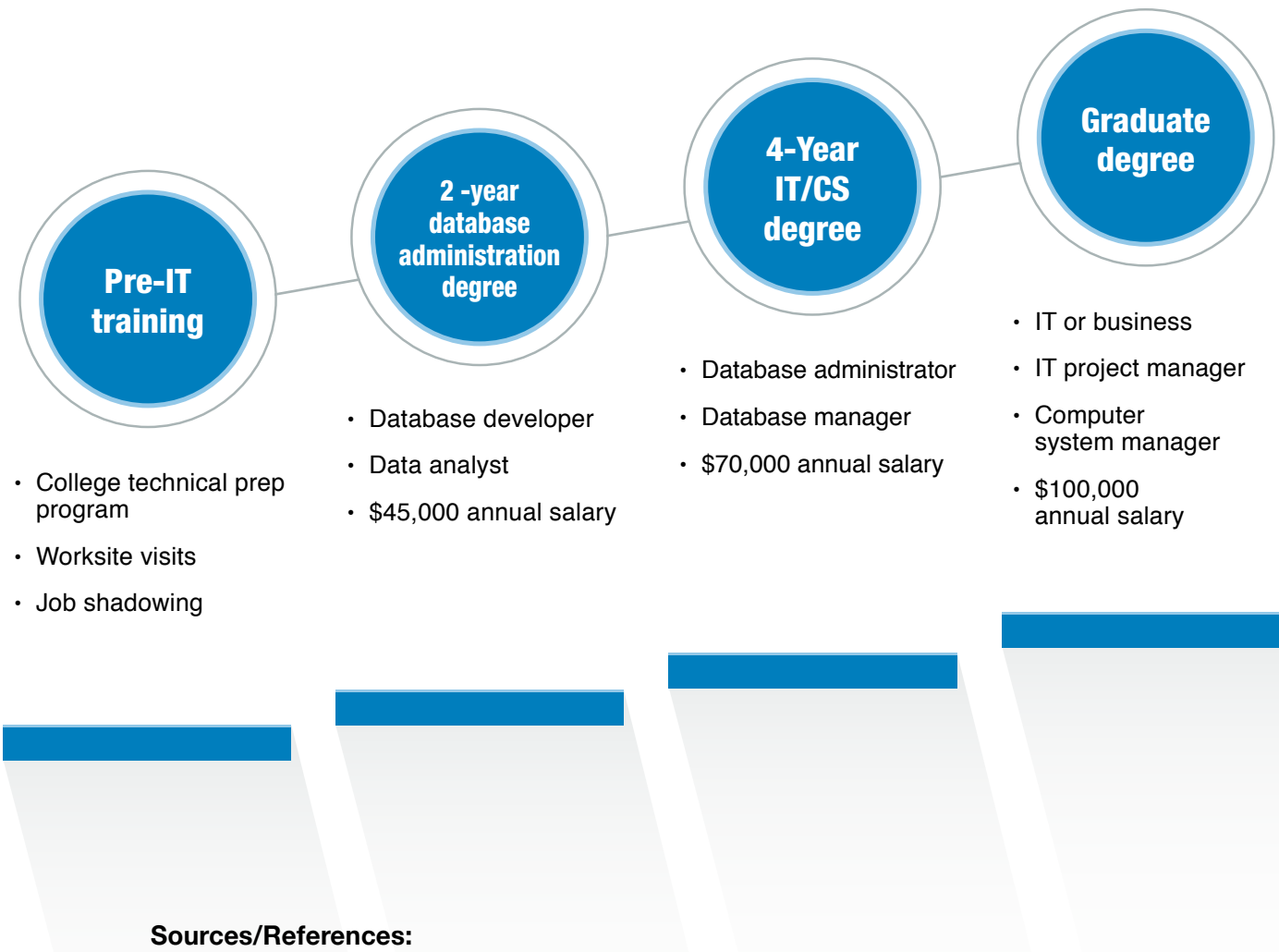
How can I grow my career?

The majority of database administrators earn a bachelor's degree in computer science or information technology. Many go on to earn post-graduate certificates to gain expertise in a specific area or software program.

Where could I focus or specialize in my career?

- Data analyst
- Database developer
- Database administrator
- IT project manager
- Computer and information systems manager

The career ladder

Pre-IT training

- College technical prep program
- Worksite visits
- Job shadowing

2-year database administration degree

- Database developer
- Data analyst
- $45,000 annual salary

4-Year IT/CS degree

- Database administrator
- Database manager
- $70,000 annual salary

Graduate degree

- IT or business
- IT project manager
- Computer system manager
- $100,000 annual salary

Sources/References:

Ohio Means Jobs, Bureau of Labor Statistics – Occupational Outlook Handbook

O*Net Online-Summary Report, Ohio Labor Market Information

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