

Database Systems:

Module 15, Lecture 1 – Careers In Database Technologies

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Careers in Database

LESSON OBJECTIVES

- Describe the major career paths available for computing professionals who specialize in "Database Technologies".

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Introduction:

Why are you taking this course?

What are your hopes and expectations in learning about databases and database software?

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Think about your "**why**".

Your *passion* drives the reasons why you do what you do,
including taking this course.

What is your vision of who you want to be?

What will be your next career move?

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Information Technology (IT)

- Organizations use computing technologies ("IT") to achieve their objectives
- Organizations typically create a structure for their IT workers

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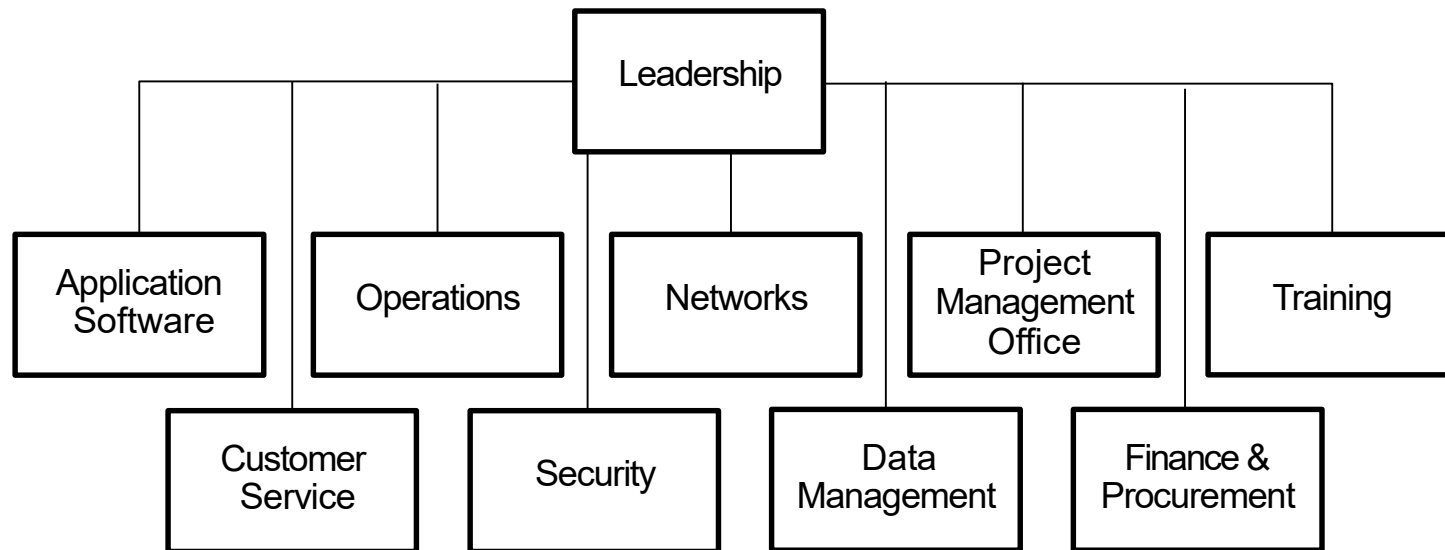
Leadership

COO—Chief Information Officer

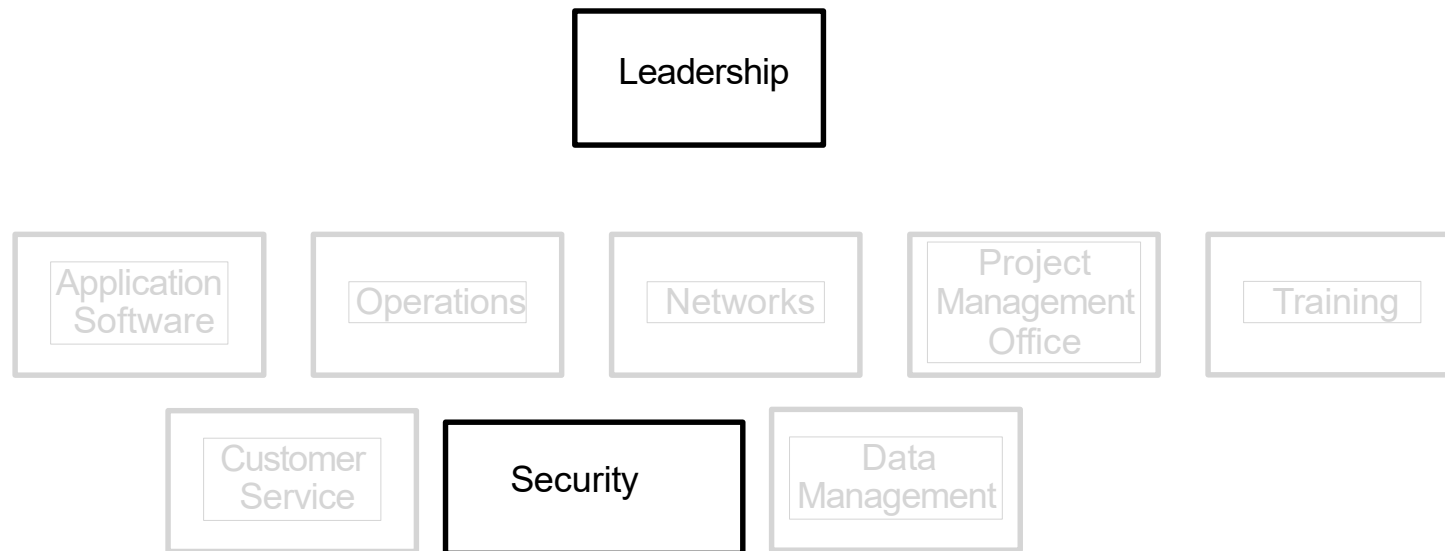
CTO—Chief Technology Officer

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A typical IT Organization "Org" Chart

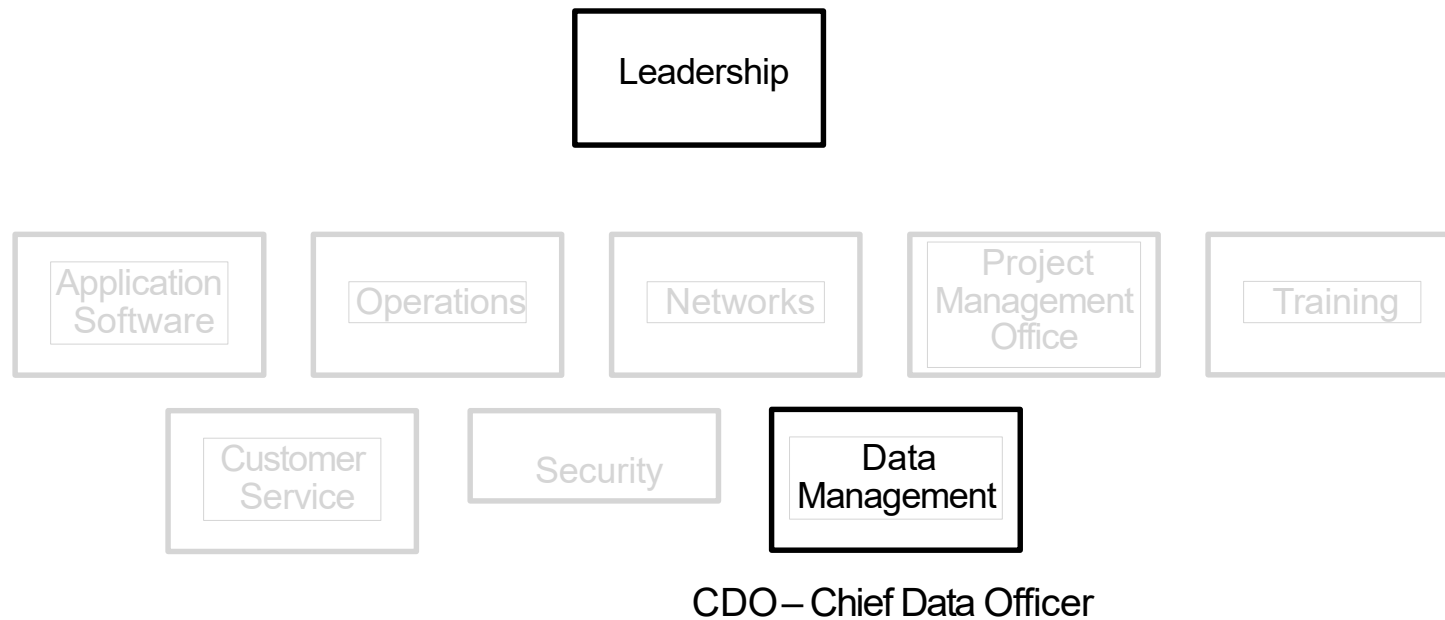


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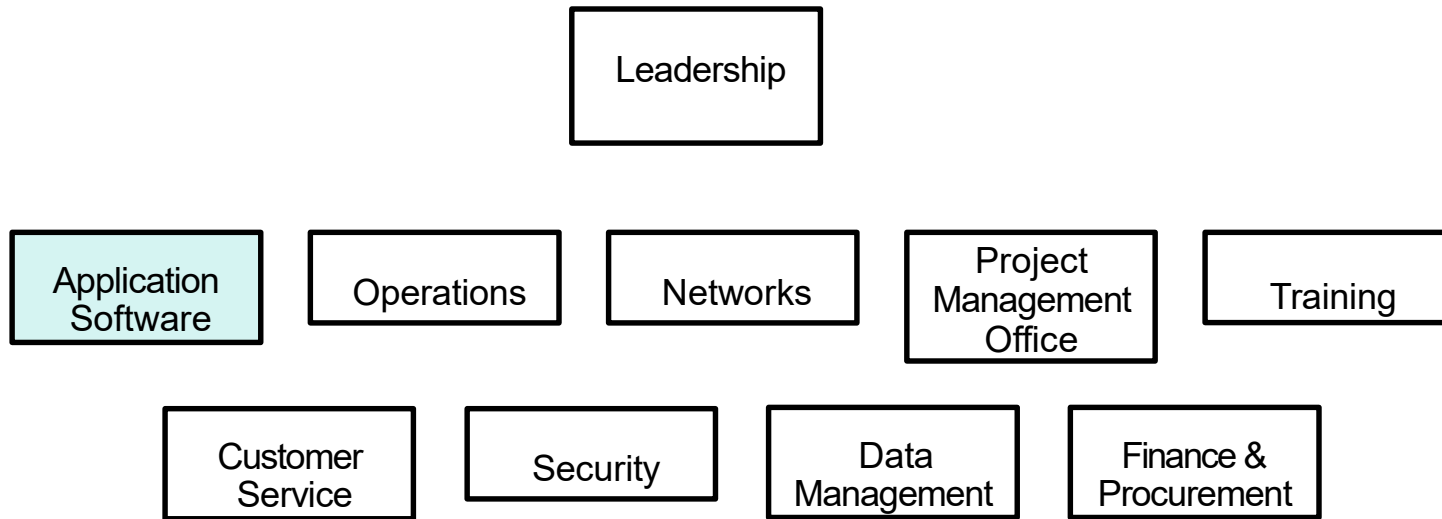


CISO – Chief Information Security Officer

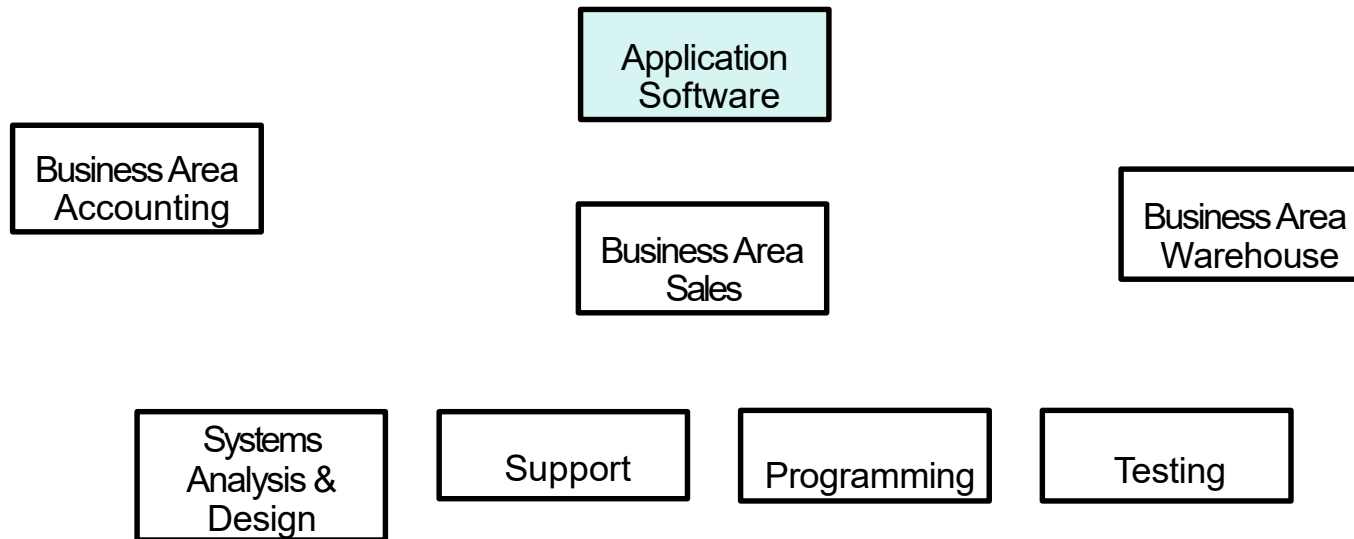
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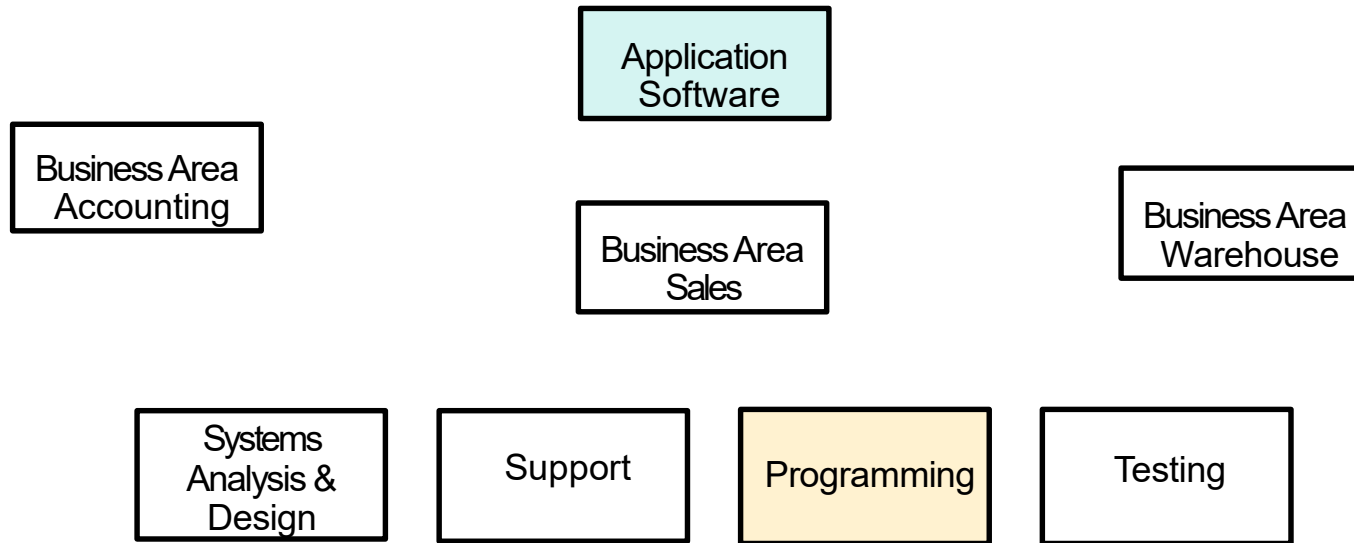
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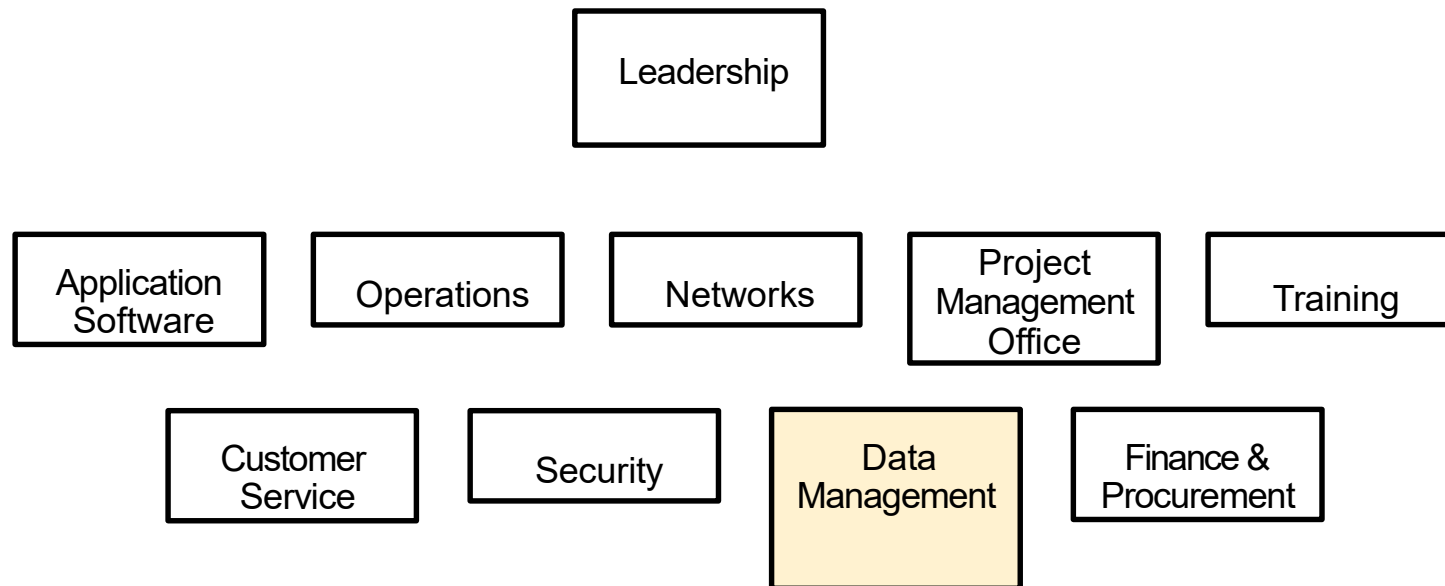
Application
Software

Programming

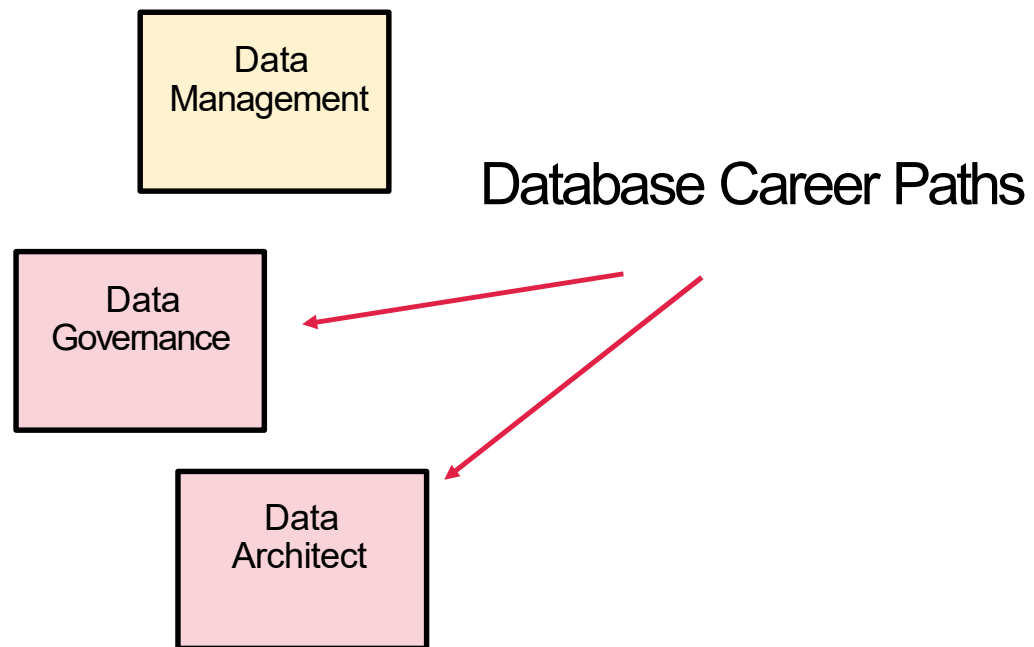
SQL
Developer

- Member of an application development team
- Works with programmers and analysts
- Codes and tests the database components of the application

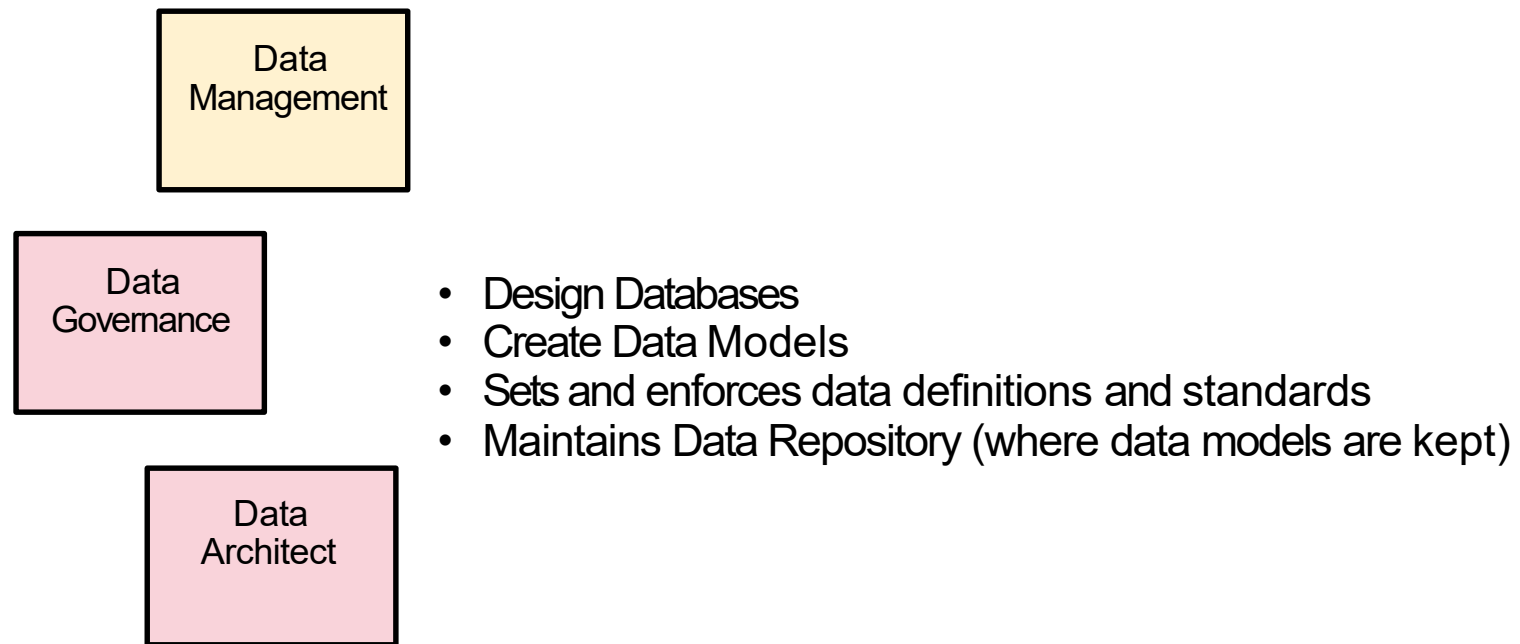
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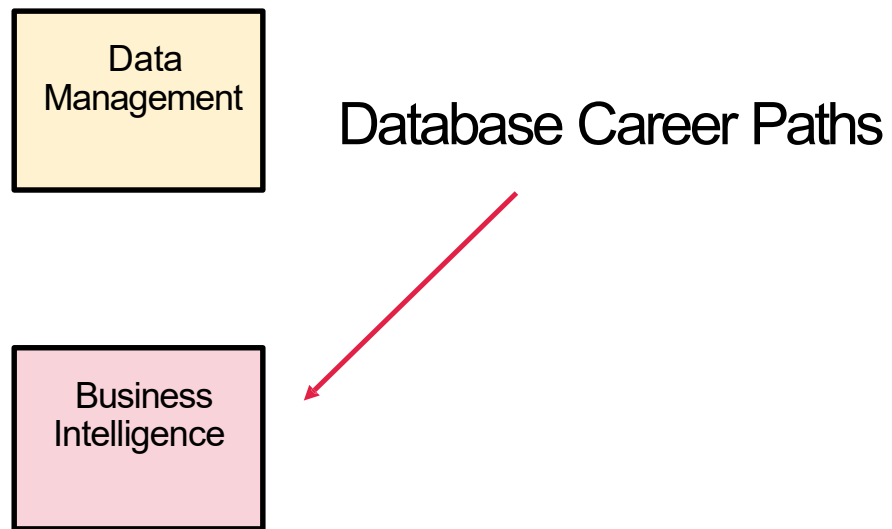
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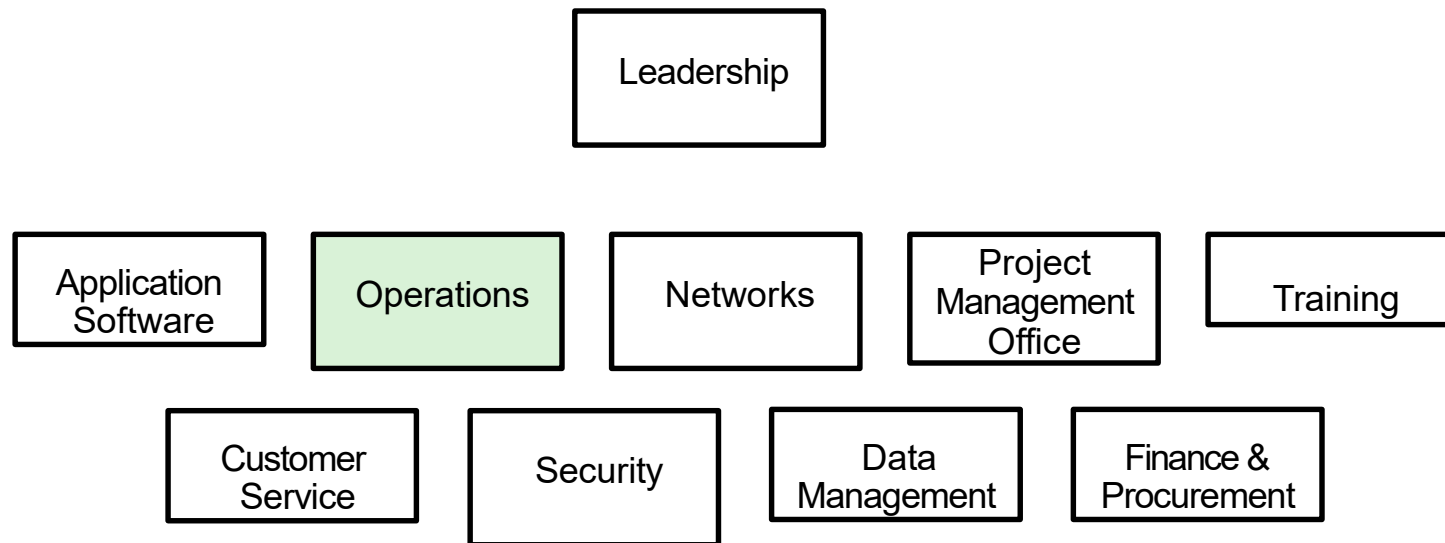
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Data
Management

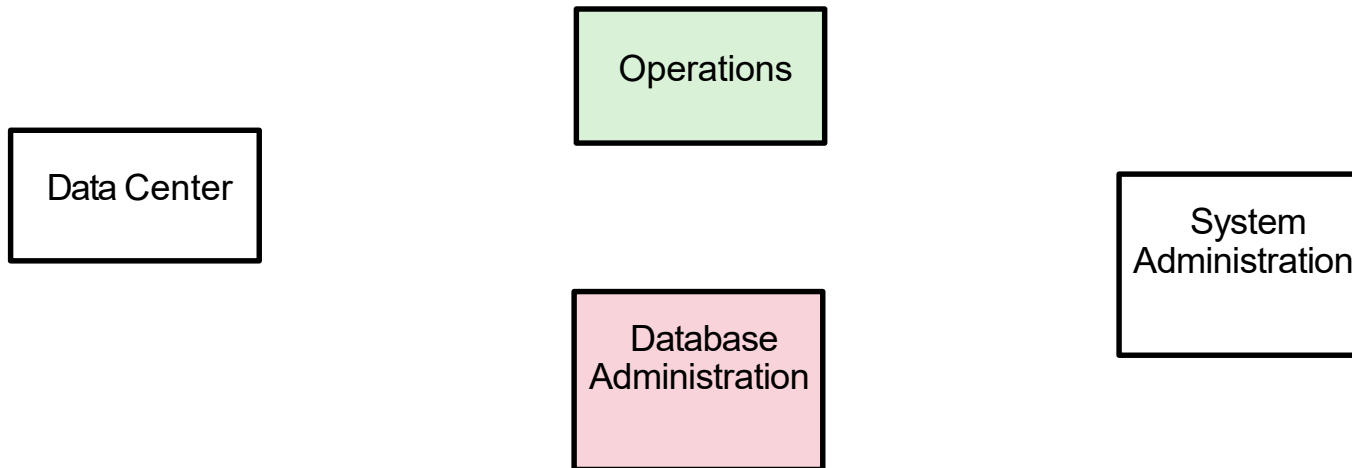
Business
Intelligence

- Conduct Data Science & Analytics
- Data Mining
- Data Reporting: Dashboards & Visualization
- Trend Analysis & Forecasting

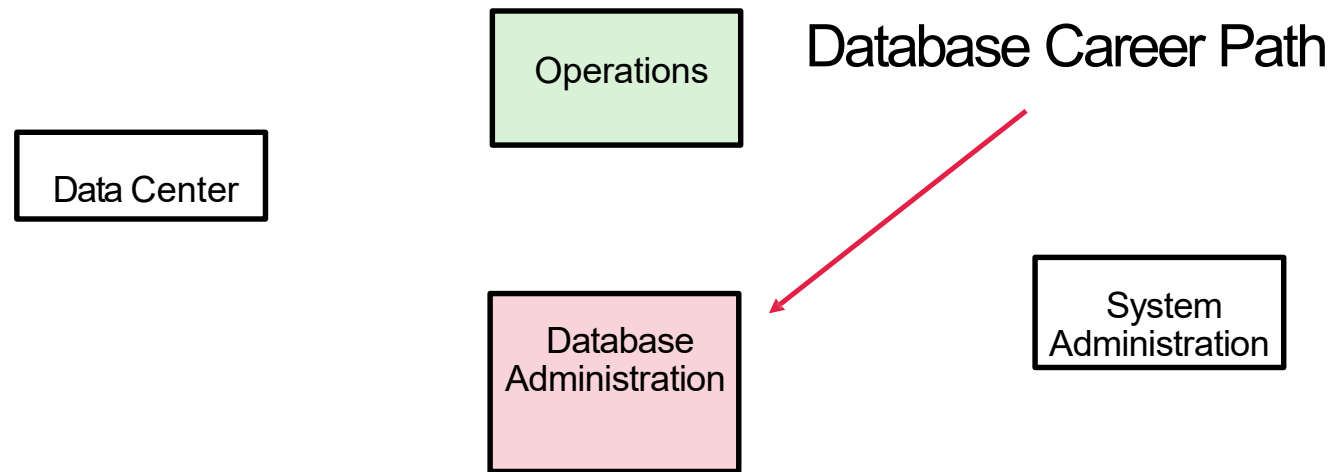
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Operations

Database
Administration

- Work with Application Development Teams
- Work with Data Architects
- Maintain DBMS Software
- Manage Database Backup & Recovery
- Ensure Proper DBMS Software Licensing

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Summary

You **can** pursue a career in database technologies

Job Titles / Roles:

- SQL Developer
- Data Architect
- Data Scientist / Data Analyst
- Database Administrator