

## **Syllabus**

### **Course Overview**

Data storage technologies cover a broad range of hardware, software and procedures. In this course you are asked to research and select a type of data storage technology that can contribute to the work of data analytics. Remember that data analytics, or data analysis, refers to techniques and processes that are used to enhance productivity. Therefore, your chosen technology should support this idea. For example, organizations typically collect and store information from such diverse activities as human resources, inventory, payroll, operational/transactional systems. In your research you will consider how the selection of the appropriate technologies to store that data can impact the ability to use that data for analytics.

You are asked to select a specific organization or type of organization for which the technology could be implemented. The data storage solution for a small printing company is not going to be the appropriate solution for a multinational finance company. By selecting a specific organization engaged in a particular industry and of a particular size you can demonstrate your ability to apply the knowledge you gained through the research projects and study materials. You are welcome to select an organization and then research an applicable data storage technology solution or you may select a data storage technology solution and identify an organization that would be an appropriate environment in which to implement that solution.

The course project is compiled from assignments in three units. In the first part of the project, you will identify a particular data storage technology and the size and industry of the organization that would be an appropriate environment in which to implement this technology. You will define the technology and address the impact that it will have on data security and privacy within the particular organization you have selected. The second part of the project will be focused on the proposed plan for implementation, including specific strategies and impact on data analytics. The third part of the project will compile all components into a comprehensive document.

#### VitalSource Bookshelf

This course offers e-books through the VitalSource Bookshelf. A link to your Bookshelf is provided in the left **Course Tools** menu. More information about your e-books can be found in the Unit 1 studies.

### **Course Competencies**

**(Read Only)**

To successfully complete this course, you will be expected to:

- 1 Research data storage solutions and tools that impact data analytics processes and workflows.
- 2 Evaluate the impact on data security and privacy of specific storage solutions that support the work of data analytics.
- 3 Analyze the application of appropriate data storage solutions within the context of a particular data analytics project.
- 4 Apply data storage tools and strategies that are available to support the work of data analytics.
- 5 Communicate effectively.

### **Course Prerequisites**

IT2230.

## Syllabus >> Course Materials

### Required

The materials listed below are required to complete the learning activities in this course.

### Integrated Materials

Many of your required books are available via the VitalSource Bookshelf link in the courseroom, located in your Course Tools. Registered learners in a Resource Kit program can access these materials using the courseroom link on the Friday before the course start date. Some materials are available only in hard-copy format or by using an access code. For these materials, you will receive an email with further instructions for access. Visit the [Course Materials](#) page on Campus for more information.

#### Book

Laberge, R. (2011). *The data warehouse mentor: Practical data warehouse and business intelligence insights*. New York, NY: McGraw Hill. ISBN: 13 9780071745321.

### Library

The following required readings are provided in the Capella University Library or linked directly in this course. To find specific readings by journal or book title, use [Journal and Book Locator](#). Refer to the [Journal and Book Locator library guide](#) to learn how to use this tool.

- Axinn, W., Link, C., & Groves, R. (2011). [Responsive survey design, demographic data collection, and models of demographic behavior](#). *Demography*, 48(3), 1127–1149.
- Bento, A., Bento, R., & White, L. (2013). [Validating cause-and-effect relationships in the balanced scorecard](#). *Academy of Accounting & Financial Studies Journal*, 17(3), 45–55.
- Berman, F. (2008). [Got data? A guide to data preservation in the information age](#). *Communications of the ACM*, 51(12), 50–56.
- Collett, S. (2013). [Big data, big storage](#). *Computerworld*, 47(17), 14–18.
- [Data analytics no longer out of business users' reach. \(2013\)](#). *NetworkWorld Asia*, 10(1), 9.
- Dudley, D. (2013). [Don't just be good, prove you're good](#). *Building Design*, 2088, 18.
- Harvey, E. (2012). [Effectiveness of workforce analytics and dashboards](#). *Human Resources Magazine*, 16(6), 24–25.
- McLeod, L., Doolin, B., & MacDonell, S. G. (2012). [A perspective-based understanding of project success](#). *Project Management Journal*, 43(5), 68–86.
- Portny, S. E. (2010). [Improving project performance with three essential pieces of information](#). *Journal for Quality & Participation*, 33(3), 18–25.
- Ross, J. W., Beath, C. M., & Quaadgras, A. (2013). [You may not need big data after all](#). *Harvard Business Review*, 91(12), 90–98.
- Schroeder, H. (2013). [Post project assessment: An art and science approach](#). *Academy of Information & Management Sciences Journal*, 16(1), 37–45.
- Sentance, B. (2013). [Control your data, control your risk](#). *Wall Street Letter*, 45(5), 9.
- Sharp, A., & McDermott, P. (2009). [Workflow modeling: Tools for process improvement and applications development \(2nd ed.\)](#). Norwood, MA: Artech House.
- [Speed bumps on the road to big data. \(2013\)](#). *Public CIO*, 11(1), 18.
- Stock, T. (2011). [Using a data warehouse to solve risk, performance, reporting and compliance-related issues](#). *Journal of Securities Operations & Custody*, 3(4), 305–315.
- Taft, D. K. (2014). [Big data and analytics: 10 ways IBM demonstrates leadership](#). *Eweek*, 2.
- [Too much data poses a risk. \(2013, May\)](#). *Executive Leadership*, 28, 4.
- Umble, M., & Umble, E. (2014). [Overcoming resistance to change](#). *Industrial Management*, 56(1), 16–21.
- Van Till, S. (2013). [How will big data change security?](#) *Security: Solutions for Enterprise Security Leaders*, 50(10), 30–34.
- Yu, D. (2013). [5 storage system challenges in the big data era](#). *NetworkWorld Asia*, 10(3), 26.

## External Resource

Please note that URLs change frequently. While the URLs were current when this course was designed, some may no longer be valid. If you cannot access a specific link, contact your instructor for an alternative URL. Permissions for the following links have been either granted or deemed appropriate for educational use at the time of course publication.

- Géczy, P., Noriaki, I., & Hasida, K. (2013). [Analytics-based management of organizational information systems](#). *Global Conference on Business & Finance Proceedings*, 8(2), 233–234. Retrieved from <http://www.theibfr.com/ARCHIVE/ISSN-1941-9589-V8-N2-2013.pdf>
- Mueller, M. L., et al. (1999). [Workflow analysis and evidence-based medicine: Towards integration of knowledge-based functions in hospital information systems](#). *Proceedings/AMIA Annual Symposium*,

330–334. Retrieved from [www.ncbi.nlm.nih.gov/pmc/articles/PMC2232821/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2232821/)

- Savitz, E., & MacMillan, A. (2012). [3 steps for adding value to your big data strategy](http://www.forbes.com/sites/ciocentral/2012/07/17/3-steps-for-adding-value-to-your-big-data-strategy/). *Forbes.com*. Retrieved from <http://www.forbes.com/sites/ciocentral/2012/07/17/3-steps-for-adding-value-to-your-big-data-strategy/>

## Suggested

The following materials are recommended to provide you with a better understanding of the topics in this course. These materials are not required to complete the course, but they are aligned to course activities and assessments and are highly recommended for your use.

## Optional

The following optional materials are offered to provide you with a better understanding of the topics in this course. These materials are not required to complete the course.

## Projects

### Project >> Data Storage Technology Plan Proposal

#### Project Overview

Data storage technologies cover a broad range of hardware, software, and procedures. In this project, you will research and select a type of data storage technology that can contribute to the work of data analytics. Remember that data analytics, or data analysis, refers to techniques and processes that are used to enhance productivity. Therefore, your chosen technology should support this idea. For example, organizations typically collect and store information from such diverse activities as human resources, inventory, payroll, and operational or transactional systems. In your research, you will consider how the selection of the appropriate technologies to store that data can impact the ability to use that data for analytics.

You will also select a specific organization or type of organization for which the technology could be implemented. The data storage solution for a small printing company is not going to be the appropriate solution for a multinational finance company. By selecting a specific organization engaged in a particular industry and of a particular size, you can demonstrate your ability to apply the knowledge you gained through the research projects and study materials. You are welcome to select an organization and then research an applicable data storage technology solution, or you may select a data storage technology solution and identify an organization that would be an appropriate environment in which to implement that solution.

In the first part of the project, identify a particular data storage technology and the size and industry of the organization that would be an appropriate environment in which to implement this technology. You will define the technology and address the impact that it will have on data security and privacy within the particular organization you have selected. The second part of the project will focus on the proposed plan for implementation, including specific strategies and the impact on data analytics. The third part of the project will compile all components into a comprehensive document.

- **Written communication:** Written communication is free of errors that detract from the overall message.
- **APA formatting:** Resources and citations are formatted according to [APA \(6th edition\) style and formatting](#).
- **Length of paper:** 5–8 typed double-spaced pages.
- **Font and font size:** Arial, 10 point.

## Unit 1 >> Introduction to Data Storage Solutions

### Introduction

This unit provides you with an overview of data storage solutions and the tools that influence data analytics and workflows. Optimal workflow can be a direct result of data collection and data storage methods. Strategies for data storage serve as mechanisms for identifying and prioritizing tasks to redesign, re-engineer, and improve work processes.

The readings in this unit will provide additional information on data storage strategies as they apply to business operations and workflows. You will have the opportunity to explore modern-day methods and challenges of storing data and data analytics processes in relation to storage tools.

### Learning Activities

#### u01s1 - Studies

After procuring the e-books for this course, you may access them via the VitalSource Bookshelf. A link to your Bookshelf is provided in the left **Course Tools** menu.

The interactive features built into the VitalSource Bookshelf help save time and enhance learning by allowing you to search, notate and highlight, organize, and share information about your texts. VitalSource Bookshelf is also available as a downloadable application. Once this application is on your computer or mobile device, your materials will be available even when not connected to the Internet. Visit [VitalSource: Support](#) to download the application.

## Readings

Use your *Data Warehouse Mentor* text to read the following:

- Chapter 1, "Data Warehouse and Business Intelligence."
- Chapter 2, "Data in the Organization."
- Chapter 3, "Reasons for Building."

Use the Capella University Library to read the following:

- Yiu's 2013 article "[5 Storage System Challenges in the Big Data Era](#)" in *NetworkWorld Asia*, volume 10, issue 3, page 26.
- Collett's 2013 article "[Big Data, Big Storage](#)" in *Computeworld*, volume 47, issue 17, pages 14–18.
- Berman's 2008 article "[Got Data? A Guide to Data Preservation in the Information Age](#)" in *Communications of the ACM*, volume 51, issue 12, pages 50–56.

Use the Capella University Library to read the following:

- Sharp and McDermott's 2009 text [Workflow Modeling: Tools for Process Improvement and Applications Development](#).

Use the Internet to read the following:

- Mueller et al.'s 1999 article "[Workflow Analysis and Evidence-Based Medicine: Towards Integration of Knowledge-Based Functions in Hospital Information Systems](#)" in *Proceedings/AMIA Annual Symposium*, pages 330–334.
- Savitz and MacMillan's 2012 article "[3 Steps for Adding Value to Your Big Data Strategy](#)" in *Forbes.com*, page 1.

## Resources

## Accessing Your SAS E-Learning Materials and SAS Certification Preparation Courses

As a business intelligence or data analytics learner at Capella University, you have access to a comprehensive list of SAS e-learning materials and SAS certification preparation courses. Whether you are interested in becoming SAS certified or you are just looking for additional resources to help advance your understanding of a particular SAS tool, simply activate your Capella SAS account to gain access to resources that will help you advance in the field of data analytics.

- [How to Activate Your Capella SAS Account.](#)
- [Your E-Learning Material and Certification Preparation Courses.](#)

## Access SAS Analytics U Community and Software Tools

Once you create your Capella SAS profile account, you become a member of the SAS Analytics U community. This is an online interactive community where you will find valuable resources and free software tools.

### SAS University Edition

As a member of the SAS Analytics U, you can download your own free version of SAS University Edition or gain Web access to more robust and powerful SAS tools by registering for SAS OnDemand. Use this link to learn more about SAS University Edition and download your own copy of SAS University Edition.

- [SAS University Edition.](#)

### SAS OnDemand Tools

To obtain cloud access to more powerful and robust SAS Tools, you must first [register with SAS OnDemand.](#)

Once you have registered for SAS OnDemand and have obtained your user ID, simply click the link below that corresponds with the tool that you would like to access.

- [SAS Enterprise Minor.](#)
- [SAS Studio.](#)
- [SAS Enterprise Guide.](#)
- [SAS Forecast Studio.](#) The name of the Environment is C867a0717de594199827634ad02887e5b.
- [SAS JMP.](#)

As you work your way through this course and through your program, lean on the [SAS Analytics U Community](#) to connect with fellow SAS users. Reach out other community members to obtain peer support, get questions answered, share ideas and best practices, and collaborate on projects.

Another available resource is the [SAS OnDemand for Academics User's Guide.](#)

## Resources

## u01a1 - Big Data

"Big data" is a relatively new term that describes the collection of large amounts of data and data sets. In today's information-driven environment, managing big data is becoming more challenging. The inability to effectively store data impacts data processing activities and workflow. After reviewing the readings for this week:

- In a summary, describe specific data storage tools and solutions that could assist with big data challenges.
- What ways would you recommend for adding value to a big data strategy?

### Resources

## u01d1 - Got Data?

Review the Berman article, which discusses data preservation and issues and trends related to data storage. Compare the concepts of preserving data and storing data.

### Response Guidelines

Review several of your peers' posts. Respond to at least two fellow learners who outline data storage solutions and tools appropriate to the particular types of data, processes, and workflows discussed. Share your thoughts about the data storage solutions and tools that they describe.

### Resources

#### Course Resources

[Undergraduate Discussion Participation Scoring Guide](#)

## Unit 2 >> Data Security and Privacy

### Introduction

Data analytics involves the availability and manipulation of data. However, considerable security and privacy requirements come with managing data from this perspective. Information governance, or control of data,

requires protection of information that is aligned with relevant regulatory and legislative guidelines. If the data is not properly protected, there can be critical risks. An example is the Health Insurance Portability and Accountability Act (HIPAA) for healthcare data. Those in public corporations have likely heard about Sarbanes-Oxley (SOX) and payment card industry standards (PCI). As data management becomes more sophisticated, as we discussed in Unit 1, the need and ability to protect the data can be more challenging too. In this unit, we will discuss those challenges and the importance of data governance. As we continue to explore strategies for data storage, we will also discuss the importance of a comprehensive security plan as a key component.

The readings in this unit will provide additional information on the impact of data security and privacy, in relation to specific data storage solutions that support the work of data analytics. You will start your course project by defining a data storage technology within the IT industry. The technology will specifically address the impact on the work of data analytics.

## Learning Activities

### u02s1 - Studies

#### Readings

Use your *Data Warehouse Mentor* text to read the following:

- Chapter 5, "Project Resources Roles and Insights."
- Chapter 6, "Write-It-Up Overview."
- Chapter 11, "Project Planning and Methodology."
- Chapter 13, "Data Governance."

Remember, your e-books are available for reading via VitalSource Bookshelf. You can access Bookshelf from the left **Course Tools** menu or via the optional downloaded application.

Use the Capella library to complete the following:

- Read the 2013 article "[Speed Bumps on the Road to Big Data](#)" in *Public CIO*, volume 11, issue 1, page 18.
- Read Van Till's 2013 article "[How Will Big Data Change Security?](#)" in *Security: Solutions For Enterprise Security Leaders*, volume 50, issue 10, pages 30–34.

#### Resources

### u02a1 - Course Project, Part 1 - Project Overview

The purpose of Part I of the project is to develop a project overview and define the data management or storage technology.

Research and write a short (3–6 pages for the body section) paper in APA (6th edition) style and format that covers the following topics:

### 1. Project Definition.

- Identify a data storage technology.
- Describe the data storage technology and how it relates to supporting the work of data analytics.
- Explain how the technology may contribute to organizational effectiveness.

### 2. Type of Organization.

- Identify a specific organization or type of organization for which the data storage technology will or can be implemented.
- Identify any industry specific considerations for data security and privacy. Be sure to address specific governance and regulations (for example, HIPAA or Financial Act).
- Explain the business reasons for implementing this particular data storage technology in this specific organization or type of organization.

### 3. Project Team.

- Identify the roles that should make up the project team that will support and contribute to the implementation of your data storage technology solution.
- Outline the team members and brief description of their roles.
- Identify the expectations of what team members will contribute to the project within the project team.

Resources

## **u02d1 - Data Storage Security and Privacy**

In the assignment this week, you are asked to identify a data storage technology solution and an organization of a particular size and industry that would be an appropriate environment for implementing this technology. One of the factors that contribute to this decision is how well that data storage solution meets the information security and privacy requirements of the organization implementing the solution. Research the security and privacy controls that exist within the data storage solution that you have chosen, and share why these controls are adequate to meet the needs of the organization size and industry in which you recommend that it be implemented.

Response Guidelines

Review several of your peers' posts. Respond to at least two fellow learners, sharing your thoughts about the controls they have described and whether you agree that the controls are adequate to ensure the security and privacy of the data being stored.

## Resources

### Course Resources

Undergraduate Discussion Participation Scoring Guide

## Unit 3 >> Supporting Data Analytics

### Introduction

Data analytics is the process of examining and analyzing data with the purpose of drawing conclusions. The application of an appropriate data storage solution plays a major role in supporting data analytics and its capabilities. Data storage tools aid in the use, retrieval, and manipulation of the data. For instance, a relationship database or storage solution can help identify patterns and relationships between data elements. These types of data analytics allow businesses to make better decisions through the use of data and data associations. Business needs should drive the use and collection of data, which directly impacts the appropriate backup and storage needs. Well-deployed and managed solutions have the potential to improve business processes and effectiveness, while poorly deployed solutions can have a negative impact.

The readings in this unit will provide additional information on the use and support of data analytics and its impact on business processes. Remember that the use of data analytics is directly related to data storage structure, technology, and business processes. You will continue with the course project by developing a proposed plan for implementing your chosen data storage solution or technology.

### Learning Activities

#### u03s1 - Studies

#### Readings

Use your *Data Warehouse Mentor* text to read the following:

- Chapter 7, "Business Intelligence: Data Marts and Usage," pages 3–38.
- Chapter 8, "Enterprise Data Models," pages 39–68.
- Chapter 9, "Data Warehouse Architecture: Components," pages 69–88.

Use the Capella library to read the following:

- Harvey's 2012 article "[Effectiveness of Workforce Analytics and Dashboards](#)" *Human Resources Magazine*, volume 16, issue 6, pages 24–25.
- "[Data Analytics No Longer Out of Business Users' Reach](#)" in *NetworkWorld Asia*, volume 10, issue 1, page 9.
- Taft's 2014 article "[Big Data and Analytics: 10 Ways IBM Demonstrates Leadership](#)" in *Eweek*, page 2.

Use the Internet to read the following:

- Géczy, Noriaki, and Hasida's 2013 article "[Analytics-Based Management of Organizational Information Systems](#)" in *Global Conference on Business & Finance Proceedings*, volume 8, issue 2, pages 233–234.

Resources

### **u03a1 - Course Project, Part 2 - Plan for Implementation**

The second part of the project will be focused on the proposed plan for implementation, including specific strategies and impact on data analytics.

Research and write a short (3–6 pages for the body section) paper in APA (6th edition) format that covers the following topics:

#### **1. Implementation Plan.**

- This section should discuss the approach for implementing the data storage technology solution. You can use either a case study or an actual organization for which the solution will be implemented.
- Discuss implementation approach. (Refer to the Laberge text, page 242, as starting point.)
- Specifically examine how the solution will support data analytics.
- Select a specific data model (or models) and types of data to be used.

#### **2. Strategies.**

- Describe a strategy or strategies that will be used to execute implementation plan.
- Define the data architect role directly related to this project.
- Discuss how the data architect role supports a strategic approach in the implementation of the data storage solution.

#### **3. Schedule.**

- Establish a baseline schedule for the project team members identified in Unit 2.

- Explain ways in which progress will be monitored.
- Identify a contingency plan for schedule variances.
- Milestones should include an estimated completion time frame.
- Identify time constraints and objectives.

## Resources

### u03d1 - Workforce Analytics

Workforce analytics is a common approach to business operations. Workforce analytics improves the way in which decisions are made, based on the analysis of employee and staff data. This approach can help businesses find answers to key workforce challenges and solutions. In the assignment this week, you are asked to provide an implementation plan for your data storage technology solution. You were also asked to discuss the data architect role. Research the types of workforce analytics and discuss how they can be applied to the architect role or roles you will use within your organization. Support your discussion with at least one article or literature reference.

## Response Guidelines

Review several of your peers' posts. Respond to at least two fellow learners, sharing your thoughts about the potential challenges with each architect role, and whether workforce analytics can be used to contribute to a solution.

## Resources

### Course Resources

[Undergraduate Discussion Participation Scoring Guide](#)

## Unit 4 >> Using Data Tools and Strategies

### Introduction

Every aspect of data analytics requires a strategic approach to ensure that the best resources and appropriate processes and technologies are utilized. The use of data tools should demonstrate intent and purposeful tactics, to yield expected results for the organization. As discussed in Unit 3, business needs should drive the use and

collection of data. Furthermore, specific data strategies provide a way to adopt evidence-based decision making.

The readings in this unit will provide additional information on data analytics and the importance of using appropriate data storage tools. You will continue with the course project by compiling all project components into a comprehensive document, with the addition of key concepts to a successfully implement a storage technology that supports a data analytics project.

## Learning Activities

### u04s1 - Studies

#### Readings

Use your *Data Warehouse Mentor* text to read the following:

- Chapter 11, "Project Planning and Methodology."
- Chapter 12, "Working Scenarios."

The following required reading is available full-text in the Capella University Library. Search for the article by clicking the linked title and following the instructions in the Library Guide.

- Ross, Beath, and Quaadgras's 2013 article "[You May Not Need Big Data After All](#)" in the *Harvard Business Review*, volume 91, issue 12, pages 90–98.

Use the Capella library to read the following:

- Umble and Umble's 2014 article "[Overcoming Resistance to Change](#)" in *Industrial Management*, volume 56, issue 1, pages 16–21.
- Sentance's 2013 article "[Control Your Data, Control Your Risk](#)" in *Wall Street Letter*, volume 45, issue 5, page 9.
- Stock's 2011 article "[Using a Data Warehouse to Solve Risk, Performance, Reporting and Compliance-Related Issues](#)" in the *Journal of Securities Operations & Custody*, volume 3, issue 4, pages 305–315.
- The 2013 article "[Too Much Data Poses a Risk](#)" in *Executive Leadership*, volume 28, page 4.

#### Resources

### u04a1 - Course Project, Part 3 - Final Proposal

The third part of the project will compile all components into a comprehensive document. Each section should include all requirements noted in previous units. Organize your document with the following titles. Be sure to follow APA (6th edition) with a table of contents, reference page, appendices (if applicable), and the like.

**1. Project Overview.**

**2. Implementation Plan.**

**3. Key Concepts.** In addition to the previous project assignments, you will include a section on key concepts needed to successfully implement a data storage technology that provides support to a data analytics project.

a. Risk Planning – This is a primary concept that should be considered with any project. When using your chosen data storage technology, discuss the following risks:

- Data quality: the impact of data quality based on data storage technology; pros and cons in relation to data quality.
- Resources: the use of proper resources and persons.
- Cost: budgeting overages, actual costs, scope versus costs.

b. Change Management – This is also a key concept that should to be addressed with the implementation of new or revised tools. Discuss the following concepts in relation to your implementation:

- Organizational culture.
- Organizational dynamics.
- Contingency plan for resistance to change.

c. Best Practices:

- Identify best practices that you will use as an ongoing effort with your chosen data storage technology.
- Process for reassessment of resources.

Resources

### **u04d1 - Using Data Tools**

Throughout the course, you have focused on implementing a storage technology that can provide support to a data analytics project. However, it is equally important to understand the technology's use and user needs. Based on your chosen tool, outline pros and cons of its use, as well as key user needs within your organization. Consider the functionality, analytics support, capability, and reporting. Support your discussion with at least one article or literature reference.

Response Guidelines

Review several of your peers' posts. Respond to at least two fellow learners, sharing your thoughts about the pros and cons, and how you plan to address challenges through risk management, change management, and best practices.

## Resources

### Course Resources

Undergraduate Discussion Participation Scoring Guide

## Unit 5 >> Assessing Data Storage Technology

### Introduction

In this unit, we will summarize topics introduced throughout the course and explore topics related to the post-project perspective. We started the course by discussing data storage solutions and the tools that influence data analytics and workflows. Mechanisms for identifying and prioritizing tasks to optimize work processes are directly related to chosen data strategies. Every aspect of data analytics requires a strategic approach to allow for the best manipulation of data (data analytics), which can ultimately yield desired results for organizational needs. Specific data strategies provide a way for effective decision making.

The readings in this unit will provide additional information on the use of data strategies for decision-making and insight into post-project activities. The implementation phase of data storage technologies may end, but the assessment of the solution is an ongoing effort. Organizations often use surveys, audits, scorecards, and other assessment tools to determine the success of a project. Documenting both successes and failures influences the correction of present issues and future strategic approaches.

The assignment for this unit will require you to:

- Create a post-project assessment plan.
- Articulate the tasks, specific tools, and sample questions you use to inform the assessment.
- Provide a future vision for the solution being assessed.

Refer to the Unit 5 assignment scoring guide for further details.

### Learning Activities

#### u05s1 - Studies

## Readings

Use your *Data Warehouse Mentor* text to read the following:

- Chapter 14, "Post-Project Review," pages 364–370.

Use the Capella library to complete the following:

- Read Schroeder's 2013 article "[Post Project Assessment: An Art and Science Approach](#)" in the *Academy of Information & Management Sciences Journal*, volume 16, issue 1, pages 37–45.
- Read Portny's 2010 article "[Improving Project Performance with Three Essential Pieces of Information](#)" in the *Journal for Quality & Participation*, volume 33, issue 3, pages 18–25.
- Read Dudley's 2013 article "[Don't Just Be Good, Prove You're Good](#)" in *Building Design*, issue 2088, page 18.
- Read Bento, Bento, and White's 2013 article "[Validating Cause-and-Effect Relationships in the Balanced Scorecard](#)" in the *Academy of Accounting & Financial Studies Journal*, issue 17, volume 3, pages 45–55.
- Axinn, Link, and Groves's 2011 article "[Responsive Survey Design, Demographic Data Collection, and Models of Demographic Behavior](#)" in *Demography*, volume 48, issue 3, pages 1127–1149.
- McLeod, Doolin, and MacDonell's 2012 article "[A Perspective-Based Understanding of Project Success](#)" in the *Project Management Journal*, volume 43, issue 5, pages 68–86.

## Resources

### u05a1 - Data Storage Technologies

Research and write a short (2–3 pages for the body section) paper in APA (6th edition) style and format that covers the following topics:

1. An overview of a post-project assessment plan.
2. Post-project tasks to assess your chosen data storage technology.
  - Include specific tools and sample questions (for example, a survey with questions, audit checkpoints, scorecard key indicators, et cetera).
3. Future vision for data storage solution.
  - Business perspective.
  - IT perspective.
  - Dependencies.
  - Planned expansion of the data storage technology.

## Resources

## u05d1 - Post-Project Surveys

Surveys are one of the most common ways of soliciting and collecting information. Surveys can be presented in a narrative format, a question-and-answer format, or in a results format. Research and find at least two example surveys related to data storage technologies or another data management topic. Compare and contrast the surveys' similarities and differences. Based on your findings, what elements can you use in assessing your chosen data storage technology? Explain your reasoning.

### Response Guidelines

Review several of your peers' posts. Respond to at least two fellow learners, sharing your thoughts about the pros and cons of their survey findings.

### Resources

#### Course Resources

[Undergraduate Discussion Participation Scoring Guide](#)

## u05d2 - Course Reflections

Share what you learned in this course that you believe will be helpful to you in your future endeavors.

### Response Guidelines

Respond to at least two other learners, explaining how their participation in the course contributed to your own learning.

### Resources

#### Course Resources

[Undergraduate Discussion Participation Scoring Guide](#)