

★ Unit VI PowerPoint Presentation - Due 17th

Choose one of the following topics. Research current best practices or guidelines for DBAs in your topic area. Locate at least three sources. Create a PowerPoint presentation of at least five (5) slides in length covering the following information.

- Complying with Regulations related to Databases
- Creating an Effective Backup and Recovery Procedure
- Developing a Disaster Plan
- Choosing the Best Storage Media and Configuration for Your Database

Be sure to provide graphics and examples as needed to explain the topics. Examples should be original and not the ones provided in the textbook. You can add more detail information in Note sections under each slide.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

★ Unit VI Assignment - Due 17th

SQL Exercise

In this Unit we discussed ways to protect data and databases. As a DBA, you are tasked with making decisions, creating procedures, and performing processes to protect the data in your database. Using the database that you loaded and used in previous units for SQL assignments, conduct research into the utilities available to assist you in creating backups, recovering data, and managing storage. In a single Word document, submit the following three parts for grading.

1. Provide a brief explanation of the utilities available in your database used to manage backups, recovery, and storage.
2. Use the functions available in your DBMS to back-up your database. Make several changes to the data in your database and drop a table or two. Test your backup by trying to restore the database to the point of the backup. Document your results.
3. Create an outline for a disaster recovery plan for your database.

In a Word document, record your research from part 1, the steps you took to drop the tables and restore the database, noting the results from part 2, and the outline from step 3 above. Include screen captures where appropriate.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

→ Unit VII PowerPoint Presentation - Due 24th

Choose one of the following topics to create a PowerPoint presentation. Use the information in the textbooks as the basis for your presentation, but conduct research to learn more about the topic and provide additional depth to your presentation. Create a PowerPoint presentation of at least five (5) slides in length covering this information:

- Considerations and Techniques for Managing Multi-User Database Environments
- Distributed Databases: What They Are, When to Use Them, and How to Determine their Structure
- Client Server Computing: Description, Benefits, Alternatives

Be sure to include examples and to provide enough coverage of the topics so that a beginner could understand the material. Examples should be original and not the ones provided in the textbooks. You can add more information in notes under each slide.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

→ Unit VII Assignment - Due 24th

SQL Exercise

In this exercise, you will be typing in SQL commands and executing them against the database that you installed earlier in this course. You should complete the following 'Try It Out' exercises from the Discovering SQL textbook. Be sure to re-read the sections preceding each of these, so that you understand what each exercise is accomplishing. Copy and paste your SQL statements and the results into a Word or text document. Alternatively, you can create a screen capture of the

SQL commands and the results window and paste those into the Word document. The text or Word document should contain all of the commands and results for all three 'Try It Out' exercises. Be sure to label each section with the title or page number, so that your instructor can easily tell which one is which.

After you have typed in each SQL statement or set of SQL statements and executed them successfully, copy your SQL code into a Word document. Then create a screen capture of the results window or copy and paste the results into the text or Word document as well. The text or Word document should contain the results of all 'Try It Out' exercises. Be sure to label each one with the title of the assignment, the page number in the textbook, and the number of the step you are performing, so that your instructor can easily tell which one is which. Pay attention to the formatting of your SQL statements and the labeling, as these items count in the final score as well. The SQL statements should be formatted as they appear in the book.

- Try It Out: Modifying a Session Parameter, page 253
- Try It Out: Restricting Data Access with SQL Views, pages 274-275
- Try It Out: Querying INFORMATION_SCHEMA, pages 280-281

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.

→ **Unit VIII Research Report** - Due 12-1-15

You are asked to complete a Final Research Report in this course. Complete any necessary research for the course report that you have been working on this term. Compile your research into a final report for submission. A research report is an opportunity for you to practice and improve your research and writing skills. Plus, it allows you to review the details that others have observed and researched in the industry. Your report should focus on your chosen topic.

You should choose a topic related to Database Administration, write an outline for a paper on the topic, and compile a list of possible sources to use in researching the paper. You should choose one of the topics listed below and focus your outline and research on recent developments in that particular area of database management.

Possible Paper Topics

- Open Source Databases
- Database Design
- Database Security and Compliance
- The Cloud and other Storage Strategies
- Backup, Recovery, and Disaster Planning
- Big Data
- Analytics
- Data Visualization

Review articles and sources with specific questions in mind (i.e., Does this article support my topic? How does this article apply to my topic? How am I going to use the details of this article in my report?). The Research Report must meet the following requirements:

- Be at least four (4) pages in length (not including the title page and references page).
- Include a topic associated with your profession or this course.
- Include at least ten peer-reviewed articles.
- Use at least five (5) sources for the Research Report.
- Use current sources (within the last four years).
- Include graphics to assist in explaining your topic.
- Use APA Style.
- Compile research related to recent developments in database administration.

Format your Research Paper using APA style. Use your own words, and include citations and references as needed to avoid plagiarism.

Information about accessing the Blackboard Grading Rubric for this assignment is provided below.