|  |
| --- |
| True / False |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. An enterprise database can be defined as the company's data representation that provides support for all present and expected future operations.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-2 The Need for a Database and Its Role in an Organization | | *LEARNING OBJECTIVES:* | 16.02 - Describe the role of the database in supporting operational, tactical, and strategic decision-making | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2. Having a computerized DBMS guarantees that the data will be properly used to provide the best solutions required by managers.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-3 Introduction of a Database: Special Considerations | | *LEARNING OBJECTIVES:* | 16.03 - Describe the impact that the introduction of a DBMS has on technological, managerial, and cultural aspects of an organization | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3. The DBA interacts with the end user by providing data and information support services to the organization’s departments.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. In the context of database administration, standards are written instructions that describe a series of steps to be followed during the performance of a given activity.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5. The security, privacy, and integrity of data in a database are of minimal concern to DBAs who manage current DBMS installations.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6. Disaster management includes all the end-user activities designed to secure data availability before a physical disaster or a database integrity failure.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. A full backup, or database dump, produces a complete copy of the entire database.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. Incremental backups produce a backup of all data.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. Concurrent backups take place while the user is working on the database.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. Backups must be clearly identified through detailed descriptions and date information, assuring that the correct backup is used to recover the database.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11. The storage locations for multiple backups must include sites inside and outside the organization.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12. The DBA or security officer must secure an insurance policy to provide financial protection in the event of a database failure.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13. The DBA is responsible for ensuring that the data are distributed to the right persons, at the right time, and in the right format.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14. The DBA must supervise the installation of all software and hardware designated to support the data administration strategy.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. The DBA function provides data modeling and design services to the end-user community, often through coordination with an application development group within the data-processing department.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16. Testing procedures and standards must already be in place before any application program can be approved for use in the company.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17. System support activities cover all tasks directly related to the day-to-day operations of a DBMS and its applications.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | True | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18. A security breach is a weakness in a system component that could be exploited to allow unauthorized access or cause service disruptions.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6b Security Vulnerabilities | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19. A security vulnerability is a collection of standards and policies created to guarantee the security of a system and ensure auditing and compliance.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-6b Security Vulnerabilities | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20. A passive data dictionary is one that is updated automatically with every database access to keep its access information up to date.   |  |  |  | | --- | --- | --- | |  | a. | True | |  | b. | False |  |  |  | | --- | --- | | *ANSWER:* | False | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-7a The Data Dictionary | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |
| --- |
| Multiple Choice |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21. In the context of the data-information-decision cycle, decisions made by high-level managers trigger actions in an organization's:   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | lower levels. | b. | top levels. | |  | c. | target markets. | d. | customer base. |  |  |  | | --- | --- | | *ANSWER:* | a | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-1 Data as a Corporate Asset | | *LEARNING OBJECTIVES:* | 16.01 - Describe the impact of data quality on a company’s assets and competitive position | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22. At the level of middle management, the database must be able to provide \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | frameworks for defining and enforcing organizational policies | b. | data necessary for tactical decisions and planning | |  | c. | feedback to monitor whether a company is achieving its goals | d. | access to external and internal data to identify growth opportunities |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-2 The Need for a Database and Its Role in an Organization | | *LEARNING OBJECTIVES:* | 16.02 - Describe the role of the database in supporting operational, tactical, and strategic decision-making | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23. When introducing a database into an organization, the database approach creates a more controlled and structured information flow and thus affects people, functions, and interactions. This leads to a(n) \_\_\_\_\_ impact of the new database system.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | cultural | b. | managerial | |  | c. | technical | d. | operational |  |  |  | | --- | --- | | *ANSWER:* | a | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-3 Introduction of a Database: Special Considerations | | *LEARNING OBJECTIVES:* | 16.03 - Describe the impact that the introduction of a DBMS has on technological, managerial, and cultural aspects of an organization | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24. The person responsible for the control of the centralized and shared database is the database \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | analyst | b. | administrator | |  | c. | programmer | d. | user |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-4 The Evolution of Database Administration | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25. Database administration operations are commonly defined and divided according to the phases of the \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | SLA | b. | DBLC | |  | c. | SDLC | d. | MRA |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-4 The Evolution of Database Administration | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26. A data administrator is also known as a(n) \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | data security officer | b. | systems administrator | |  | c. | information resource manager | d. | information engineering officer |  |  |  | | --- | --- | | *ANSWER:* | c | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-4 The Evolution of Database Administration | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27. The \_\_\_\_\_ administrator is responsible for strategic planning.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | system | b. | data | |  | c. | database | d. | program |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5 The Database Environment’s Human Component | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28. Coordinating, monitoring, and allocating database administration resources is included in a DBA's \_\_\_\_\_ role.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | operative | b. | arbitration | |  | c. | technical | d. | managerial |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29. \_\_\_\_\_ are more detailed and specific than policies and describe the minimum requirements of a given DBA activity.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Guidelines | b. | Standards | |  | c. | Procedures | d. | Documentations |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30. “All users must have passwords” is an example of a \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | rule | b. | policy | |  | c. | standard | d. | procedure |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31. "A password must have a minimum of five characters" is an example of a \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | policy | b. | rule | |  | c. | procedure | d. | standard |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 32. Instructions to create a password are an example of a \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | rule | b. | policy | |  | c. | standard | d. | procedure |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 33. In the context of data backup and recovery, the activities of a \_\_\_\_\_ includes the DBA operations that are classified as disaster management.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | database programmer | b. | systems analyst | |  | c. | data administrator | d. | database security officer |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 34. Which of the following is a reason why a DBMS's daily operations must be clearly documented?   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Documentation of the daily operations help a company set its long-term goals. | b. | Documentation of the daily operations help manage the manual data resources of a company. | |  | c. | Documentation of the daily operations help pinpoint causes and solutions of database problems. | d. | Documentation of the daily operations help free the DBA from many lower-level technology-oriented tasks. |  |  |  | | --- | --- | | *ANSWER:* | c | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 35. A(n) \_\_\_\_\_ plan is a set of instructions generated at application compilation time that predetermines how the application will connect to and communicate with the database at run time.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | access | b. | completion | |  | c. | application | d. | communications |  |  |  | | --- | --- | | *ANSWER:* | a | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 36. \_\_\_\_\_ activities cover all tasks directly related to the day-to-day operations of the DBMS and its applications.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Backup and recovery | b. | System support | |  | c. | Performance monitoring and tuning | d. | Security auditing and monitoring |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 37. \_\_\_\_\_ deals with ensuring that data is protected against unauthorized access, and if the data are accessed by an authorized user, that the data are used only for an authorized purpose.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Integrity | b. | Compliance | |  | c. | Availability | d. | Confidentiality |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6 Security | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 38. \_\_\_\_\_ security breaches include database access by computer viruses and by hackers whose actions are designed to destroy or alter data.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Debilitative | b. | Preserving | |  | c. | Corrupting | d. | Destructive |  |  |  | | --- | --- | | *ANSWER:* | c | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6b Security Vulnerabilities | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 39. When performing user access management, a DBA defines each user to the database at the \_\_\_\_\_ levels.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | application and DBMS | b. | operating system and DBMS | |  | c. | operating system and application | d. | application and network |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-6c Database Security | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 40. User-access management is a subset of \_\_\_\_\_.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | password protection | b. | authorization management | |  | c. | data integrity management | d. | managerial control |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6c Database Security | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 41. In the context of database usage monitoring, a(n) \_\_\_\_\_ is a file that automatically records a brief description of the database operations performed by all users.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | change tracker | b. | digital footprint | |  | c. | paper trail | d. | audit log |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6c Database Security | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 42. A(n) \_\_\_\_\_ data dictionary is automatically updated by the DBMS with every database access.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | dynamic | b. | active | |  | c. | passive | d. | static |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-7a The Data Dictionary | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 43. A(n) \_\_\_\_\_ data dictionary is not updated automatically and usually requires a batch process to be run.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | active | b. | passive | |  | c. | static | d. | dynamic |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-7a The Data Dictionary | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 44. \_\_\_\_\_ CASE tools provide support for the planning, analysis, and design phases.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Front-end | b. | Back-end | |  | c. | Vertical | d. | Horizontal |  |  |  | | --- | --- | | *ANSWER:* | a | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-7b Case Tools | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 45. \_\_\_\_\_ CASE tools provide support for the coding and implementation phases.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Front-end | b. | Back-end | |  | c. | Vertical | d. | Horizontal |  |  |  | | --- | --- | | *ANSWER:* | b | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-7b Case Tools | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 46. The \_\_\_\_\_ component of a CASE tool produces the information system’s input/output formats.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | analysis | b. | graphics | |  | c. | program document generator | d. | screen painter and report generator |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-7b Case Tools | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 47. \_\_\_\_\_ allows for the translation of the company’s strategic goals into the data and applications that will help the company achieve those goals.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Access Management | b. | Business Intelligence | |  | c. | Information engineering (IE) | d. | MOLAP |  |  |  | | --- | --- | | *ANSWER:* | c | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-8 Developing a Data Administration Strategy | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 48. In the context of developing a data administration strategy, a(n) \_\_\_\_\_ provides a framework that includes computerized, automated, and integrated tools such as a DBMS and CASE tools.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | access plan | b. | active data dictionary | |  | c. | information systems architecture | d. | security policy |  |  |  | | --- | --- | | *ANSWER:* | c | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-8 Developing a Data Administration Strategy | | *LEARNING OBJECTIVES:* | 16.06 - Identify the standards, strategies, and tools used in database administration | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 49. A(n) \_\_\_\_\_ is a logical storage area in Oracle.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | audit log | b. | datafile | |  | c. | schema | d. | tablespace |  |  |  | | --- | --- | | *ANSWER:* | d | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10c Creating Tablespaces and Datafiles | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 50. One of the important functions provided by the database \_\_\_\_\_ is to reserve the resources that must be used by the database at run time.   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | security component | b. | authorization manager | |  | c. | initialization parameters | d. | administrator |  |  |  | | --- | --- | | *ANSWER:* | c | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10e Customizing the Database Initialization Parameters | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |
| --- |
| Completion |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 51. In the context of data quality management tools, \_\_\_\_\_ software is one that gathers statistics, analyzes existing data sources and metadata to determine patterns, and compares the patterns against standards that the organization has defined.   |  |  | | --- | --- | | *ANSWER:* | data-profiling | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-1 Data as a Corporate Asset | | *LEARNING OBJECTIVES:* | 16.01 - Describe the impact of data quality on a company’s assets and competitive position | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 52. In the context of an organization's managerial structure, \_\_\_\_\_ decisions are short term and affect only daily operations; for example, deciding to change the price of a product to clear it from inventory.   |  |  | | --- | --- | | *ANSWER:* | operational | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-2 The Need for a Database and Its Role in an Organization | | *LEARNING OBJECTIVES:* | 16.02 - Describe the role of the database in supporting operational, tactical, and strategic decision-making | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 53. In the context of database administration, \_\_\_\_\_ is the extent to which individuals and organizations have the right to determine the “who, what, when, where, and how” of data usage.   |  |  | | --- | --- | | *ANSWER:* | privacy | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-2 The Need for a Database and Its Role in an Organization | | *LEARNING OBJECTIVES:* | 16.02 - Describe the role of the database in supporting operational, tactical, and strategic decision-making | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 54. The \_\_\_\_\_ aspect of introducing a DBMS in an organization deals with hardware and software changes in the organization.   |  |  | | --- | --- | | *ANSWER:* | technological | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-3 Introduction of a Database: Special Considerations | | *LEARNING OBJECTIVES:* | 16.03 - Describe the impact that the introduction of a DBMS has on technological, managerial, and cultural aspects of an organization | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 55. In the context of the advancements in DBMS technology, the use of \_\_\_\_\_ data services can free the DBA from many lower-level technology-oriented tasks.   |  |  | | --- | --- | | *ANSWER:* | cloud | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-4 The Evolution of Database Administration | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 56. In case a company installs several incompatible databases and assigns a DBA for each of them, the general coordinator of all such DBAs is known as the \_\_\_\_\_ administrator.   |  |  | | --- | --- | | *ANSWER:* | systems | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-4 The Evolution of Database Administration | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 57. The \_\_\_\_\_, also known as the information resource manager (IRM), usually reports directly to top management and is given a higher degree of responsibility and authority than the DBA, although the two roles can overlap.   |  |  | | --- | --- | | *ANSWER:* | DA  data administrator | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-4 The Evolution of Database Administration | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 58. Based on the type of decision-making support required, database users may be classified into: operational, tactical, or \_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | strategic | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-2 The Need for a Database and Its Role in an Organization 16-5 The Database Environment’s Human Component | | *LEARNING OBJECTIVES:* | 16.02 - Describe the role of the database in supporting operational, tactical, and strategic decision-making 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 59. The DSO’s activities are often classified as \_\_\_\_\_ management, which includes all DBA activities designed to ensure data availability following a physical calamity or a database integrity failure.   |  |  | | --- | --- | | *ANSWER:* | disaster | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 60. In the context of ensuring integrity of a database, a(n) \_\_\_\_\_ transaction is one that does not overload the DBMS.   |  |  | | --- | --- | | *ANSWER:* | efficient | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 61. The DBA must review the database application design to ensure that transactions are \_\_\_\_\_, meaning that they mirror real-world events.   |  |  | | --- | --- | | *ANSWER:* | correct | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 62. Performance monitoring and \_\_\_\_\_ activities are designed to ensure that the DBMS, utilities, and applications maintain satisfactory performance levels.   |  |  | | --- | --- | | *ANSWER:* | tuning | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 63. Within the data security framework, \_\_\_\_\_ is concerned with keeping data consistent and free of errors or anomalies.   |  |  | | --- | --- | | *ANSWER:* | integrity | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6 Security | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 64. A security \_\_\_\_\_ is a weakness in a system component that could be exploited to allow unauthorized access or cause service disruptions.   |  |  | | --- | --- | | *ANSWER:* | vulnerability | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-6b Security Vulnerabilities | | *LEARNING OBJECTIVES:* | 16.05 - Describe the processes and systems in the information security framework that support the three database security goals | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 65. A(n) \_\_\_\_\_ physically stores the database’s data.   |  |  | | --- | --- | | *ANSWER:* | datafile | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10c Creating Tablespaces and Datafiles | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 66. In the context of Oracle Enterprise Manager, a(n) \_\_\_\_\_ is a uniquely identifiable object that allows a given person to log on to the  database.   |  |  | | --- | --- | | *ANSWER:* | user | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10d Managing Users and Establishing Security | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 67. In the context of Oracle Enterprise Manager, a(n) \_\_\_\_\_ is a named collection of database access privileges that authorize a user to connect to the database and use its system resources.   |  |  | | --- | --- | | *ANSWER:* | role | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10d Managing Users and Establishing Security | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 68. In the context of Oracle Enterprise Manager, a(n) \_\_\_\_\_ is a named collection of settings that control how much of the database resource  a given user can access.   |  |  | | --- | --- | | *ANSWER:* | profile | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10d Managing Users and Establishing Security | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 69. In the context of Oracle Enterprise Manager, "CONNECT" allows a user to connect to the database and then create and modify tables, views, and other data-related objects. This is an example of a(n) \_\_\_\_\_.   |  |  | | --- | --- | | *ANSWER:* | role | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10d Managing Users and Establishing Security | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 70. Each database has an associated \_\_\_\_\_ file that is read at instance startup, stores run-time configuration parameters, and is used to set the working environment for the database.   |  |  | | --- | --- | | *ANSWER:* | initialization | | *DIFFICULTY:* | Difficulty: Easy | | *REFERENCES:* | 16-10e Customizing the Database Initialization Parameters | | *LEARNING OBJECTIVES:* | 16.08 - Perform various technical tasks of database administration with Oracle | |

|  |
| --- |
| Essay |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 71. Describe the DBA’s managerial role.   |  |  | | --- | --- | | *ANSWER:* | As a manager, the DBA must concentrate on the control and planning of database administration. Therefore, the DBA is responsible for:  - Coordinating, monitoring, and allocating database administration resources: people and data.  - Defining goals and formulating strategic plans for database administration. | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 72. Explain user requirements gathering as part of the DBA's end-user support services.   |  |  | | --- | --- | | *ANSWER:* | The DBA must work with end users to help gather the data required to identify and describe their present and future information needs. The DBA’s communication skills are important in working closely with people who have varying computer backgrounds and communication styles. | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 73. Explain conflict and problem resolution as part of the DBA’s end-user support services.   |  |  | | --- | --- | | *ANSWER:* | Finding solutions to end users’ problems in one department might trigger conflicts with other departments. End users are typically concerned with their own data needs rather than those of others, and they might not consider how their data may affect other departments within the organization. When conflicts arise, the DBA must have the authority and responsibility to resolve them. | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 74. Describe the need for convenient and safe backup storage.   |  |  | | --- | --- | | *ANSWER:* | Multiple backups of the same data are required, and each backup copy must be stored in a different location. The storage locations must include sites inside and outside the organization. (Keeping different backups in the same place defeats the purpose of having multiple backups.) The storage locations must be properly prepared, and they may include fire-safe and quakeproof vaults as well as humidity and temperature controls. The DBA must establish a policy to respond to two questions: (1) Where are the backups to be stored? (2) How long are backups to be stored? | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5a The DBA’s Managerial Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 75. The testing and evaluation of a database application cover all aspects of the system—from the simple collection and creation of data to its use and retirement. What is covered by the evaluation process?   |  |  | | --- | --- | | *ANSWER:* | - Technical aspects of both the applications and the database; backup and recovery, security and integrity, use of SQL, and application performance must be evaluated  - Evaluation of the written documentation and procedures to ensure that they are accurate and easy to follow  - Observance of standards for naming, documenting, and coding  - Checking for data duplication conflicts with existing data  - The enforcement of all data validation rules | | *DIFFICULTY:* | Difficulty: Moderate | | *REFERENCES:* | 16-5b The DBA’s Technical Role | | *LEARNING OBJECTIVES:* | 16.04 - Describe the managerial and technical roles of the database administrator | |