

CHAPTER 16: DATABASE ADMINISTRATION AND SECURITY

1. The DBMS must provide tools that give each level of management a useful view of the data and support the required level of decision-making.

a. True
b. False

ANSWER: True

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Need for a Database and its Role in an Organization

REF: p.724

2. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Need for a Database and its Role in an Organization

REF: p.725

3. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Introduction of a Database: Special Considerations

REF: p.725

4. The introduction of a DBMS represents a big change and challenge, and is likely to have a profound impact throughout the organization.

a. True
b. False

ANSWER: True

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Introduction of a Database: Special Considerations

REF: p.725

5. When an organization employs both a DA and a DBA, the DA's job has a technical orientation, whereas the DBA's job has a managerial orientation.

a. True
b. False

Chapter 16: Database Administration and Security

ANSWER: False

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.730

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

6. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

REF: p.733

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

7. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.734

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

8. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

REF: p.735

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

9. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

REF: p.735

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

10. A full backup, or database dump, produces a complete copy of the entire database.

- a. True
- b. False

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ANSWER: True

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.736

11. Incremental backups produce a backup of all data.

a. True

b. False

ANSWER: False

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p. 736

12. Concurrent backups take place while the user is working on the database.

a. True

b. False

Answer: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p. 736

13. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p. 736

14. The storage locations for multiple backups must include sites inside and outside the organization.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p. 736

15. 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

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ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p. 736

16. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.637

17. The DBA must supervise the installation of all software and hardware designated to support the data administration strategy.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.740

18. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.740

19. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.741

20. System support activities cover all tasks directly related to the day-to-day operations of a DBMS and its applications.

a. True

b. False

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ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.741

21. Training people to use the DBMS and its tools is not included in the responsibilities of a DBA.

a. True

b. False

ANSWER: False

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.743

22. The maintenance activities of the DBA are an extension of the operational activities.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.743

23. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Security

REF: p.745

24. Security breaches can yield a database whose integrity is either preserved or corrupted.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Security

REF: p.745

25. In the context of database security measures, enforcing complex password policies will address the security vulnerabilities of the operating system component.

a. True

b. False

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ANSWER: False

PTS: 1

NAT: BUSPRGO: Analytic

KEY: Bloom's Comprehension

DEF: Difficulty: Moderate

STATE: DISC: Information Technology

TOP: Security

REF: p.746

26. Protecting the security and integrity of a database is a function of authorization management.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Security

REF: p.747

27. When performing user access management, a DBA assigns passwords to each user at both the operating system and DBMS levels.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Security

REF: p.747

28. The DBA can use an audit log to automatically record a brief description of the database operations performed by the users.

a. True

b. False

ANSWER: True

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Security

REF: p.748

29. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Database Administration Tools

REF: p.749

30. 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

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ANSWER: A

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Data as a Corporate Asset

REF: p.722

31. At the level of middle management, the database must be able to_____.

- a. provide a framework for defining and enforcing organizational policies
- b. provide the data necessary for tactical decisions and planning
- c. provide feedback to monitor whether a company is achieving its goals
- d. provide access to external and internal data to identify growth opportunities

ANSWER: b

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Need for a Database and its Role in an Organization

REF: p.724

32. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Need for a Database and its Role in an Organization

REF: p.726

33. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Evolution of Database Administration

REF: p.727

34. Database administration operations are commonly defined and divided according to the phases of the_____.

- a. SLA
- b. DBLC
- c. SDLC
- d. MRA

ANSWER: b

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Evolution of Database Administration

REF: p.728

35. A data administrator is also known as a(n)_____.

- a. data security officer
- b. systems administrator
- c. information resource manager
- d. information engineering officer

Chapter 16: Database Administration and Security

ANSWER: c

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Evolution of Database Administration

REF: p.729

36. The _____ administrator is responsible for strategic planning.

- a. system b. data
- c. database d. program

ANSWER: b

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.730

37. Coordinating, monitoring, and allocating database administration resources is included in a DBA's _____ role.

- a. operative b. arbitration
- c. technical d. managerial

ANSWER: d

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.732

38. _____ 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.733

39. "All users must have passwords" is an example of a _____.

- a. rule b. policy
- c. standard d. procedure

ANSWER: b

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.734

40. A password must have a minimum of five characters" is an example of a _____.

- a. policy b. rule
- c. procedure d. standard

ANSWER: d

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.734

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41. Instructions to create a password are an example of a_____.
- a. rule
 - b. policy
 - c. standard
 - d. procedure

ANSWER: d

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.734

42. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.735

43. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.735

44. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.740

45. _____ 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.741

Chapter 16: Database Administration and Security

46. _____ 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

PTS: 1

DEF: Difficulty: Easy

REF: p.744

NAT: BUSPRGO: Technology

STATE: DISC: Information Technology

KEY: Bloom's Knowledge

TOP: Security

47. _____ 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

PTS: 1

DEF: Difficulty: Easy

REF: p.745

NAT: BUSPRGO: Technology

STATE: DISC: Information Technology

KEY: Bloom's Knowledge

TOP: Security

48. 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

PTS: 1

DEF: Difficulty: Easy

REF: p.747

NAT: BUSPRGO: Technology

STATE: DISC: Information Technology

KEY: Bloom's Knowledge

TOP: Security

49. User-access management is a subset of _____.
- a. password protection b. authorization management
 - c. data integrity management d. managerial control

ANSWER: b

PTS: 1

DEF: Difficulty: Easy

REF: p.747

NAT: BUSPRGO: Technology

STATE: DISC: Information Technology

KEY: Bloom's Knowledge

TOP: Security

50. 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

PTS: 1

DEF: Difficulty: Easy

REF: p.748

NAT: BUSPRGO: Technology

STATE: DISC: Information Technology

KEY: Bloom's Knowledge

TOP: Security

Chapter 16: Database Administration and Security

51. A(n)_____data dictionary is automatically updated by the DBMS with every database access.
- a. dynamic b. active
 - c. passive d. static

ANSWER: b

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.748

STATE: DISC: Information Technology

TOP: Database Administration Tools

52. 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:

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.749

STATE: DISC: Information Technology

TOP: Database Administration Tools

53. _____CASE tools provide support for the planning, analysis, and design phases.
- a. Front-end b. Back-end
 - c. Vertical d. Horizontal

ANSWER:

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.751

STATE: DISC: Information Technology

TOP: Database Administration Tools

54. _____CASE tools provide support for the coding and implementation phases.
- a. Front-end b. Back-end
 - c. Vertical d. Horizontal

ANSWER: b

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.751-752

STATE: DISC: Information Technology

TOP: Database Administration Tools

55. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.752

STATE: DISC: Information Technology

TOP: Database Administration Tools

Chapter 16: Database Administration and Security

56. _____ 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.754

STATE: DISC: Information Technology

TOP: Developing a Data Administration Strategy

57. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.754

STATE: DISC: Information Technology

TOP: Developing a Data Administration Strategy

58. A(n)_____ is a logical storage area in Oracle.
- a. audit log
 - b. datafile
 - c. schema
 - d. tablespace

ANSWER: d

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.759

STATE: DISC: Information Technology

TOP: The DBA at Work: Using Oracle for Database Administration

59. In the context of the Oracle Enterprise Manager, a(n)_____ is a uniquely identifiable object that allows a given person to log on to the database.
- a. user
 - b. role
 - c. profile
 - d. client

ANSWER: a

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.761

STATE: DISC: Information Technology

TOP: The DBA at Work: Using Oracle for Database Administration

60. In the context of the Oracle Enterprise Manager, a(n)_____ is a named collection of database access privileges that authorize a user to connect to the database and use the database system resources.
- a. license
 - b. role
 - c. profile
 - d. quota

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ANSWER: b

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.761

STATE: DISC: Information Technology

TOP: The DBA at Work: Using Oracle for Database Administration

61. In the context of the Oracle Enterprise Manager, a _____ is a named collection of settings that control how much of the database resource a given user can use.

- a. license b. role
- c. profile d. constraint

ANSWER: c

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.761

STATE: DISC: Information Technology

TOP: The DBA at Work: Using Oracle for Database Administration

62. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.764

STATE: DISC: Information Technology

TOP: The DBA at Work: Using Oracle for Database Administration

63. 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

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.723

STATE: DISC: Information Technology

TOP: Data as a Corporate Asset

64. 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

PTS: 1

NAT: BUSPROG: Technology

KEY: Bloom's Knowledge

DIF: Difficulty: Easy

REF: p.724

STATE: DISC: Information Technology

TOP: The Need for a Database and its Role in an Organization

65. 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.

Chapter 16: Database Administration and Security

ANSWER: privacy

PTS: 1

NAT: BUSPROG: Technology
KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Need for a Database and its Role in
an Organization

REF: p.724

66. The _____ aspect of introducing a DBMS in an organization deals with hardware and software changes in the organization.

ANSWER: technological

PTS: 1

NAT: BUSPROG: Technology
KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: Introduction of a Database: Special Considerations

REF: p.725

67. 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

PTS: 1

NAT: BUSPROG: Technology
KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Evolution of Database Administration

REF: p.727

68. 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

PTS: 1

NAT: BUSPROG: Technology
KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Evolution of Database Administration

REF: p.729

69. 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

PTS: 1

NAT: BUSPROG: Technology
KEY: Bloom's: Knowledge

DIF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Evolution of Database Administration

REF: p.729

70. Based on the type of decision-making support required, database users may be classified into: operational, tactical, or _____.

ANSWER: strategic

PTS: 1

NAT: BUSPRGO: Technology
KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.731

71. 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

PTS: 1

NAT: BUSPRGO: Technology
KEY: Bloom's: Knowledge

DEF: Difficulty: Easy

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

REF: p.735

Chapter 16: Database Administration and Security

72. In the context of ensuring integrity of a database, a(n) _____ transaction is one that does not overload the DBMS.

ANSWER: efficient

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.740

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

73. The DBA must review the database application design to ensure that transactions are _____, meaning that they mirror real-world events.

ANSWER: correct

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.740

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

74. Performance monitoring and _____ activities are designed to ensure that the DBMS, utilities, and applications maintain satisfactory performance levels.

ANSWER: tuning

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.741-742

STATE: DISC: Information Technology

TOP: The Database Environment's Human Component

75. Within the data security framework, _____ is concerned with keeping data consistent and free of errors or anomalies.

ANSWER: integrity

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: P.744

STATE: DISC: Information Technology

TOP: Security

76. A security _____ is a weakness in a system component that could be exploited to allow unauthorized access or cause service disruptions.

ANSWER: vulnerability

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.745

STATE: DISC: Information Technology

TOP: Security

77. A(n) _____ physically stores the database's data.

ANSWER: data file

PTS: 1

NAT: BUSPRGO: Technology

KEY: Bloom's Knowledge

DEF: Difficulty: Easy

REF: p.759

STATE: DISC: Information Technology

TOP: The DBA at Work: Using Oracle for Database Administration

Chapter 16: Database Administration and Security

78. 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.

PTS: 1	DEF: Difficulty: Moderate	REF: p.732
NAT: BUSPRGO: Analytic	STATE: DISC: Information Technology	
KEY: Bloom's Comprehension	TOP: The Database Environment's Human Component	

79. 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.

PTS: 1	DEF: Difficulty: Moderate	REF: p.733
NAT: BUSPRGO: Analytic	STATE: DISC: Information Technology	
KEY: Bloom's Comprehension	TOP: The Database Environment's Human Component	

80. 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.

PTS: 1	DEF: Difficulty: Moderate	REF: p.733
NAT: BUSPRGO: Analytic	STATE: DISC: Information Technology	
KEY: Bloom's Comprehension	TOP: The Database Environment's Human Component	

81. 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?

PTS: 1	DEF: Difficulty: Moderate	REF: p.736
NAT: BUSPRGO: Analytic	STATE: DISC: Information Technology	
KEY: Bloom's Comprehension	TOP: The Database Environment's Human Component	

Chapter 16: Database Administration and Security

82. 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

PTS: 1

DEF: Difficulty: Moderate

REF: p.741

NAT: BUSPRGO: Analytic

STATE: DISC: Information Technology

KEY: Bloom's Comprehension

TOP: The Database Environment's Human Component

83. The use of cloud-based data services alters and expands the typical DBA's role in both technical and managerial dimensions. What is the DBA's role in this environment?

ANSWER: *DBMS installation and updates.* The service provider manages the installation and application of the updates within a specified maintenance window. The DBA's role is to carefully coordinate updates with the external cloud-based data service provider.

Server/network management. The service provider configures and manages the server where the DBMS resides. The DBA must work with his or her company's network department to ensure that the network is properly configured for security, performance, availability and management.

Backup and recovery operations. The service provider performs regular backups and stores backups in secure facilities. The DBA must ensure that internal data privacy and retention policies are enforced and maintained.

PTS: 1

DEF: Difficulty: Moderate

REF: p.741

NAT: BUSPRGO: Analytic

STATE: DISC: Information Technology

KEY: Bloom's Comprehension

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