Chapter 02 Introduction to Database Development

 An system is a set of unrelated components that work independently to accomplish some objectives. True False
2. The role of a database is to provide short-term memory for an information system. True False
3. In the traditional systems development life cycle, the boundaries between the various phases are usually well-defined and each phase is completed before the next phase is begun. True False
4. In the traditional life cycle, the systems implementation phase begins when an information system becomes operational. True False
5. The systems analysis phase produces problem statement and feasibility study, which are inputs into the systems design phase. True False
6. Due to the high cost costs of developing new systems, a system is seldom changed once it has been implemented. True False
7. The broadest goal of database development is to produce a working database that processes data efficiently and securely. True False
8. Although establishing a common vocabulary among different parts of an organization is not easy, a databas can unify an organization by accomplishing this. True False

9. The characteristic of consistency in data quality is achieved when each part of the database has only one meaning. True False
10. Achieving good data quality is such an important goal in database design that short and long-term costs are seldom an issue. True False
11. The first two phases of database development are concerned with the information content of the database, while the last two phases are concerned with the efficient implementation of the design. True False
12. The external schema of a database represents all the requirements and formats of the system, while the conceptual schema deals with the requirements of a particular usage of the database. True False
13. The conceptual data modeling and logical database design phases are not concerned with the efficient implementation of a database. True False
14. Refinements to the conceptual data model usually occur in the logical database design phase. True False
15. The two main activities in the logical database design phase of database development are conversion to tables and data propagation. True False
16. Database replication, a technique to improve performance by having multiple copies of the database available to various user groups, is very seldom done in practice because it is too difficult to keep all the copies consistent. True False

17. Indexing on a column or group of columns of a table can improve the performance of update operations in a database, but it slows down the retrieval process of queries. True False
18. Data placement decisions usually occur in the distributed design phase of database development. True False
19. Because many physical design and distributed design decisions must be tested on a populated database, these last two phases of the development process are usually divided between systems design and systems implementation. True False
20. Conceptual data modeling is especially process-oriented and requires mostly hard skills of the database designer. True False
21. Due to the highly integrated nature of database design, design role specialization rarely occurs and the same individual usually performs all phases of the development process. True False
22. Analysis functions, which are supported by most products, are the most widely used function in CASE tools. True False
23. CASE is an acronym for computer-assisted system engineering. True False
24. Prototyping tools are useful for creating forms and reports, but their main disadvantage is that they cannot generate code. True False

25. Even though most of the prominent CASE tools are offered by DBMS vendors, they are relatively DBMS neutral.

True False

- 26. Choose the most appropriate statement.
- A. A database is synonymous with information system
- B. An information system is part of a database
- C. Databases are essential components of many information systems.
- D. A database is usually not a component of an information system
- 27. The following is usually a component(s) of an information system:
- A. Databases
- B. Procedures
- C. Software
- D. All of the above
- 28. Which of the following shows the correct order of various phases of the traditional Systems Development Life Cycle?
- A. Systems Design, Systems Analysis, Systems Implementation
- B. Systems Analysis, Systems Design, Systems Implementation
- C. Systems Implementation, Systems Analysis, Systems Design
- D. Systems Analysis, Systems Implementation, Systems Design
- 29. Which one is a drawback of the traditional Systems Development Life Cycle?
- A. There is no feedback between successive phases
- B. There is no feasibility study
- C. An operational system is produced very late in the cycle
- D. There is no distinction between analysis and design
- 30. Which one is not an advantage of prototyping?
- A. The initial prototype incorporates all requirements
- B. Prototypes provide for clarification of requirements
- C. Prototypes provide meaningful feedback to developers
- D. Prototypes are implemented rapidly

31. The waterfall model characterizes the following systems development model: A. Prototyping B. Traditional Systems Development Life Cycle C. Spiral Development D. Data model development
32. Select the most appropriate statement about information systems development. A. The data model is usually produced first B. The process model is usually produced first C. The environment interaction model is usually produced first D. The choice of the first of these three models is purely arbitrary
33. When designing a database, which of the following is not a required feature? A. Support of organizational policies B. Provide high quality data C. Limit data access to very few users D. Allow efficient access to data
34. If an information system consistently reports outdated inventory levels that causes delays in re-stocking orders, this would be an example of a lack of what characteristic of data quality? A. Completeness B. Ambiguity C. Reliability D. Timeliness
35. Which one of the following indicates poor data quality? A. Ambiguity B. Consistency C. Completeness D. Reliability
36. A supplier shown with two different addresses in two parts of the database would violate: A. Completeness B. Timeliness C. Consistency D. Reliability

- 37. The non-enforcement of a business rule in a database would be a lack of which characteristic of data quality?
- A. Completeness
- B. Reliability
- C. Timeliness
- D. Consistency
- 38. Entity Relationship Diagrams are input to the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design
- 39. Data Requirements are input to the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design
- 40. Relational Database Tables are output from the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design
- 41. The Internal Schema is output from the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design
- 42. Which of the following decisions would be part of Distributed Database Design?
- A. Student data and enrollment data will be stored in two different tables
- B. An index file will be created on the last name of students in the Student table
- C. The Social Security number will be chosen as the primary key of the Student table
- D. Student data and enrollment data will be stored in two different tables at two different locations

- 43. Which of the following is independent of the choice of a DBMS?A. Entity Relationship DiagramsB. Distribution SchemaC. Internal Schema
 - D. Index files
 - 44. The decision to place each student's record next to the student's enrollment data on disk takes place in the following phase of Database Development:
 - A. Physical Database Design
 - B. Conceptual Data Modeling
 - C. Logical Database Design
 - D. Distributed Database Design
 - 45. For large projects, the most difficult problem in view design and integration is often:
 - A. Choosing the views
 - B. Designing individual views
 - C. Choosing the staff to work on individual views
 - D. Integrating the views
 - 46. The main source of conflict in view integration is caused by:
 - A. Different views have conflicting data requirements
 - B. Designers use conflicting DBMS
 - C. Designers use conflicting design methods
 - D. Designers use different versions of SQL
 - 47. Conceptual data modeling takes place during:
 - A. Systems implementation
 - B. Systems design
 - C. Systems design and system implementation
 - D. Systems analysis
 - 48. Physical database design takes place during:
 - A. Systems implementation
 - B. Systems design
 - C. Systems design and system implementation
 - D. Systems analysis

A. Conceptual data modelingB. Logical database designC. Physical database designD. Implementation		
50. Which of the following is a feature provided by A. create forms and reports B. create an initial database from a library of databate C. generate code D. all of the above		
51. A set of related components that work together	to accomplish some objective is kno	wn as a(n)
52. A(n) accepts data from for decision making.	m its environment, processes data, an	d produces output data
53. The traditional systems development life cycle phase flows to the next phase.	is known as the	model because each
54. In the traditional systems development life cycl problem statement and a feasibility study.	le, the	phase produces a
55. In the traditional systems development life cycl requirements describing processes, data, and environments	le, theonment interactions.	phase produces
56. In the traditional systems development life cycl executable code, databases, and user documentation		phase produces

49. Normalization takes place during the following database development phase:

forms and reports is called a	implemented quickly using graphical tools for generating
58. In system development methodology, the that will occur in the system.	model describes the kind of data and relationships
59. In system development methodology, thesuch as which process can provide input data anothe	model describes relationships among processes, er process.
60. In system development methodology, the processes.	model describes relationships between events and
61. One of the common characteristics of data quali do not corrupt the database.	ity is, meaning failures or interferences
62. A common characteristic of data quality is important parts of the information system.	, where the database represents all the
63. In the database development process, a graphica entities is a(n)	al representation that depicts entities and relationships among
64. In the database development process, theentity relationship diagrams (ERDs).	phase uses data requirements and produces

65. In the database development process, the (ERDs) and converts them into relational table designs.	phase uses entity relationship diagrams
66 is a database design active constraints or dependencies among columns.	ity which removes redundancies in table design using
67. In the database development process, the	phase involves choices about the location of l.
68. In the database development process, important choi	ces about indexes and data placement occur during the
69. The strategy, which breaks a to manage complexity in database design.	large problem into many smaller problems, is one way
70. A design approach in which ERDs are constructed for conceptual schema is referred to as	
71. One set of skills that a database designer needs, which people-oriented are known as skills.	ch are described as qualitative, subjective, and
72. The distributed database design and physical database characterized as quantitative, objective, and data intensis	

73. A specialized software product which is used to improve the productivity of in developing information systems, and includes diagramming and documentation functions is called a(n)
74. A repository which stores data types, integrity rules, alias names, assumptions and alternatives in a database is known as a(n)
75. In database design, a CASE tool analysis function which converts a table design to an ERD is known as
76. CASE tools that create prototypes and generate code that can be used to cross check a database with other components of an information system are classified as CASE tools.

Chapter 02 Introduction to Database Development Key

1. An system is a set of unrelated components that work independently to accomplish some objectives. **FALSE**

Level: Easy Mannino - Chapter 02 #1

2. The role of a database is to provide short-term memory for an information system.

FALSE

The role of a database is to provide long-term memory for an information system.

Level: Easy Mannino - Chapter 02 #2

3. In the traditional systems development life cycle, the boundaries between the various phases are usually well-defined and each phase is completed before the next phase is begun.

FALSE

The boundaries are blurred and there is considerable backtracking between phases.

Level: Medium Mannino - Chapter 02 #3

4. In the traditional life cycle, the systems implementation phase begins when an information system becomes operational.

FALSE

This is when the maintenance phase begins.

Level: Medium Mannino - Chapter 02 #4 5. The systems analysis phase produces problem statement and feasibility study, which are inputs into the systems design phase.

FALSE

The problem statement and feasibility study are outputs of the preliminary investigation phase. System requirements are the output of the systems analysis phase.

Level: Easy Mannino - Chapter 02 #5

6. Due to the high cost costs of developing new systems, a system is seldom changed once it has been implemented.

FALSE

Level: Easy Mannino - Chapter 02 #6

7. The broadest goal of database development is to produce a working database that processes data efficiently and securely.

FALSE

The broadest goal of database development is to produce a database that provides an important resource for an organization.

Level: Hard Mannino - Chapter 02 #7

8. Although establishing a common vocabulary among different parts of an organization is not easy, a database can unify an organization by accomplishing this.

TRUE

Level: Medium Mannino - Chapter 02 #8

9. The characteristic of consistency in data quality is achieved when each part of the database has only one meaning.

FALSE

This is the characteristic of a lack of ambiguity.

Level: Medium

10. Achieving good data quality is such an important goal in database design that short and long-term costs are seldom an issue.

FALSE

The short and long-term costs and benefits should always be considered.

Level: Easy Mannino - Chapter 02 #10

11. The first two phases of database development are concerned with the information content of the database, while the last two phases are concerned with the efficient implementation of the design.

TRUE

Level: Medium Mannino - Chapter 02 #11

12. The external schema of a database represents all the requirements and formats of the system, while the conceptual schema deals with the requirements of a particular usage of the database.

FALSE

The conceptual schema represents all the requirements; the external schema represents a particular usage.

Level: Hard Mannino - Chapter 02 #12

13. The conceptual data modeling and logical database design phases are not concerned with the efficient implementation of a database.

TRUE

Level: Medium Mannino - Chapter 02 #13

14. Refinements to the conceptual data model usually occur in the logical database design phase.

TRUE

Level: Easy Mannino - Chapter 02 #14 15. The two main activities in the logical database design phase of database development are conversion to tables and data propagation.

FALSE

Level: Easy Mannino - Chapter 02 #15

16. Database replication, a technique to improve performance by having multiple copies of the database available to various user groups, is very seldom done in practice because it is too difficult to keep all the copies consistent.

FALSE

Level: Hard Mannino - Chapter 02 #16

17. Indexing on a column or group of columns of a table can improve the performance of update operations in a database, but it slows down the retrieval process of queries.

FALSE

Level: Medium Mannino - Chapter 02 #17

18. Data placement decisions usually occur in the distributed design phase of database development.

FALSE

Level: Easy Mannino - Chapter 02 #18

19. Because many physical design and distributed design decisions must be tested on a populated database, these last two phases of the development process are usually divided between systems design and systems implementation.

TRUE

Level: Hard

20. Conceptual data modeling is especially process-oriented and requires mostly hard skills of the database designer.

FALSE

Conceptual data modeling is especially people-oriented and requires mostly soft skills.

Level: Medium Mannino - Chapter 02 #20

21. Due to the highly integrated nature of database design, design role specialization rarely occurs and the same individual usually performs all phases of the development process.

FALSE

Database design roles are often split between data modelers and database performance specialists.

Level: Easy Mannino - Chapter 02 #21

22. Analysis functions, which are supported by most products, are the most widely used function in CASE tools.

FALSE

Level: Hard Mannino - Chapter 02 #22

23. CASE is an acronym for computer-assisted system engineering.

FALSE

CASE is computer-aided software engineering.

Level: Medium Mannino - Chapter 02 #23

24. Prototyping tools are useful for creating forms and reports, but their main disadvantage is that they cannot generate code.

FALSE

They can generate code.

Level: Medium Mannino - Chapter 02 #24 25. Even though most of the prominent CASE tools are offered by DBMS vendors, they are relatively DBMS neutral.

TRUE

Level: Hard Mannino - Chapter 02 #25

- 26. Choose the most appropriate statement.
- A. A database is synonymous with information system
- B. An information system is part of a database
- C. Databases are essential components of many information systems.
- D. A database is usually not a component of an information system

Level: Easy Mannino - Chapter 02 #26

- 27. The following is usually a component(s) of an information system:
- A. Databases
- B. Procedures
- C. Software
- **D.** All of the above

Level: Easy Mannino - Chapter 02 #27

- 28. Which of the following shows the correct order of various phases of the traditional Systems Development Life Cycle?
- A. Systems Design, Systems Analysis, Systems Implementation
- **B.** Systems Analysis, Systems Design, Systems Implementation
- C. Systems Implementation, Systems Analysis, Systems Design
- D. Systems Analysis, Systems Implementation, Systems Design

Level: Easy Mannino - Chapter 02 #28

- 29. Which one is a drawback of the traditional Systems Development Life Cycle?
- A. There is no feedback between successive phases
- B. There is no feasibility study
- C. An operational system is produced very late in the cycle
- D. There is no distinction between analysis and design

Level: Medium

- 30. Which one is not an advantage of prototyping?
- **A.** The initial prototype incorporates all requirements
- B. Prototypes provide for clarification of requirements
- C. Prototypes provide meaningful feedback to developers
- D. Prototypes are implemented rapidly

Level: Medium Mannino - Chapter 02 #30

- 31. The waterfall model characterizes the following systems development model:
- A. Prototyping
- **B.** Traditional Systems Development Life Cycle
- C. Spiral Development
- D. Data model development

Level: Medium Mannino - Chapter 02 #31

- 32. Select the most appropriate statement about information systems development.
- A. The data model is usually produced first
- B. The process model is usually produced first
- C. The environment interaction model is usually produced first
- D. The choice of the first of these three models is purely arbitrary

Level: Easy Mannino - Chapter 02 #32

- 33. When designing a database, which of the following is not a required feature?
- A. Support of organizational policies
- B. Provide high quality data
- C. Limit data access to very few users
- D. Allow efficient access to data

Level: Medium Mannino - Chapter 02 #33

35. Which one of the following indicates poor data quality? A. Ambiguity B. Consistency C. Completeness D. Reliability Level: Easy Mannino - Chapter 02 #35 36. A supplier shown with two different addresses in two parts of the database would violate: A. Completeness B. Timeliness C. Consistency D. Reliability Level: Medium	34. If an information system consistently reports outdated inventory levels that causes delays in re-stocking orders, this would be an example of a lack of what characteristic of data quality? A. Completeness B. Ambiguity C. Reliability D. Timeliness
A. Ambiguity B. Consistency C. Completeness D. Reliability Level: Easy Mannino - Chapter 02 #35 36. A supplier shown with two different addresses in two parts of the database would violate: A. Completeness B. Timeliness C. Consistency D. Reliability Level: Meedium Mannino - Chapter 02 #36 37. The non-enforcement of a business rule in a database would be a lack of which characteristic of data quality? A. Completeness B. Reliability C. Timeliness D. Consistency Level: Meedium	Level: Medium Mannino - Chapter 02 #34
36. A supplier shown with two different addresses in two parts of the database would violate: A. Completeness B. Timeliness C. Consistency D. Reliability Level: Medium Mannino - Chapter 02 #36 37. The non-enforcement of a business rule in a database would be a lack of which characteristic of data quality? A. Completeness B. Reliability C. Timeliness D. Consistency Level: Medium	A. Ambiguity B. Consistency C. Completeness
A. Completeness B. Timeliness C. Consistency D. Reliability Level: Medium Mannino - Chapter 02 #36 37. The non-enforcement of a business rule in a database would be a lack of which characteristic of data quality? A. Completeness B. Reliability C. Timeliness D. Consistency Level: Medium	Level: Easy Mannino - Chapter 02 #35
37. The non-enforcement of a business rule in a database would be a lack of which characteristic of data quality? A. Completeness B. Reliability C. Timeliness D. Consistency	A. Completeness B. Timeliness C. Consistency
quality? A. Completeness B. Reliability C. Timeliness D. Consistency	Level: Medium Mannino - Chapter 02 #36
	quality? A. Completeness B. Reliability C. Timeliness

- 38. Entity Relationship Diagrams are input to the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design

Level: Medium Mannino - Chapter 02 #38

- 39. Data Requirements are input to the following phase of Database Development:
- A. Physical Database Design
- **B.** Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design

Level: Medium Mannino - Chapter 02 #39

- 40. Relational Database Tables are output from the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design

Level: Medium Mannino - Chapter 02 #40

- 41. The Internal Schema is output from the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design

Level: Medium

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- 42. Which of the following decisions would be part of Distributed Database Design?
- A. Student data and enrollment data will be stored in two different tables
- B. An index file will be created on the last name of students in the Student table
- C. The Social Security number will be chosen as the primary key of the Student table
- **<u>D.</u>** Student data and enrollment data will be stored in two different tables at two different locations

Level: Medium Mannino - Chapter 02 #42

- 43. Which of the following is independent of the choice of a DBMS?
- A. Entity Relationship Diagrams
- B. Distribution Schema
- C. Internal Schema
- D. Index files

Level: Medium Mannino - Chapter 02 #43

- 44. The decision to place each student's record next to the student's enrollment data on disk takes place in the following phase of Database Development:
- A. Physical Database Design
- B. Conceptual Data Modeling
- C. Logical Database Design
- D. Distributed Database Design

Level: Medium Mannino - Chapter 02 #44

- 45. For large projects, the most difficult problem in view design and integration is often:
- A. Choosing the views
- B. Designing individual views
- C. Choosing the staff to work on individual views
- **<u>D.</u>** Integrating the views

Level: Medium

- 46. The main source of conflict in view integration is caused by:
- A. Different views have conflicting data requirements
- B. Designers use conflicting DBMS
- C. Designers use conflicting design methods
- D. Designers use different versions of SQL

Level: Hard Mannino - Chapter 02 #46

- 47. Conceptual data modeling takes place during:
- A. Systems implementation
- B. Systems design
- C. Systems design and system implementation
- **D.** Systems analysis

Level: Medium Mannino - Chapter 02 #47

- 48. Physical database design takes place during:
- A. Systems implementation
- B. Systems design
- C. Systems design and system implementation
- D. Systems analysis

Level: Hard Mannino - Chapter 02 #48

- 49. Normalization takes place during the following database development phase:
- A. Conceptual data modeling
- **B.** Logical database design
- C. Physical database design
- D. Implementation

Level: Easy Mannino - Chapter 02 #49

50. Which of the following is a feature provided by prototyping tools? A. create forms and reports	
B. create an initial database from a library of databases	
C. generate code	
<u>D.</u> all of the above	
Level: Easy Mannino - Chapter 02 #50	
51. A set of related components that work together to accomplish some objective is known as a(n)	
<u>system</u>	
Level: Easy Mannino - Chapter 02 #51	
52. A(n) accepts data from its environment, processes data, and produces outp	out data
for decision making. information system	
Level: Easy Mannino - Chapter 02 #52	
53. The traditional systems development life cycle is known as the model because of phase flows to the next phase. waterfall	each
Level: Medium Mannino - Chapter 02 #53	
54. In the traditional systems development life cycle, the phase product problem statement and a feasibility study. preliminary investigation	es a
Level: Medium	

55. In the traditional systems development life cycle, the requirements describing processes, data, and environment interactions.	phase produces
systems analysis	
Level: Medium Mannino - Chapter 02 #55	
56. In the traditional systems development life cycle, theexecutable code, databases, and user documentation. system implementation	phase produces
Level: Medium Mannino - Chapter 02 #56	
57. A scaled-down version of a system that can be implemented quickly using graphical forms and reports is called a Prototype	tools for generating
Level: Medium Mannino - Chapter 02 #57	
58. In system development methodology, the model describes the kind of describes t	ata and relationships
Level: Medium Mannino - Chapter 02 #58	
59. In system development methodology, the model describes relationship such as which process can provide input data another process. process	os among processes,
Level: Medium Mannino - Chapter 02 #59	
60. In system development methodology, the model describes relationship processes. environment interaction	os between events and

Level: Hard Mannino - Chapter 02 #60

61. One of the common characteristics of data quality is	, meaning failures or interferences
do not corrupt the database. reliability	
Level: Easy Mannino - Chapter 02 #61	
Manual Chapter 02 no.	
62. A common characteristic of data quality is,	where the database represents all the
important parts of the information system.	, where the database represents an the
completeness	
Level: Medium Mannino - Chapter 02 #62	
63. In the database development process, a graphical representation	that depicts entities and relationships among
entities is a(n)	1 3
entity relationship diagram (ERD)	
Level: Easy	
Mannino - Chapter 02 #63	
* * · · ·	phase uses data requirements and produces
entity relationship diagrams (ERDs). conceptual data modeling	
Conceptual data modernig	
Level: Medium	
Mannino - Chapter 02 #64	
65. In the database development process, the(ERDs) and converts them into relational table designs.	phase uses entity relationship diagrams
logical database design	
Level: Medium Mannino - Chapter 02 #65	
•	
66. is a database design activity which re	emoves redundancies in table design using
constraints or dependencies among columns.	and dough wong
normalization	

Level: Hard Mannino - Chapter 02 #66

67. In the database development process, the	phase involves choices about the location of
data and processes so that performance can be optimized. distributed database design	
Level: Medium Mannino - Chapter 02 #67	
68. In the database development process, important choices about phase. physical database design	indexes and data placement occur during the
Level: Medium Mannino - Chapter 02 #68	
69. The strategy, which breaks a large prob to manage complexity in database design. divide-and-conquer	lem into many smaller problems, is one way
Level: Medium Mannino - Chapter 02 #69	
70. A design approach in which ERDs are constructed for each groconceptual schema is referred to as	oup of users and merged into a complete
Level: Hard Mannino - Chapter 02 #70	
71. One set of skills that a database designer needs, which are descripted are known as skills. soft	cribed as qualitative, subjective, and
Level: Easy Mannino - Chapter 02 #71	
72. The distributed database design and physical database design per characterized as quantitative, objective, and data intensive.	

Level: Easy Mannino - Chapter 02 #72

73. A specialized software product which is used to improve the productivity of in developing information systems, and includes diagramming and documentation functions is called a(n) CASE tool
Level: Easy Mannino - Chapter 02 #73
74. A repository which stores data types, integrity rules, alias names, assumptions and alternatives in a database is known as a(n) data dictionary
Level: Medium Mannino - Chapter 02 #74
75. In database design, a CASE tool analysis function which converts a table design to an ERD is known as
reverse engineering
Level: Hard Mannino - Chapter 02 #75
76. CASE tools that create prototypes and generate code that can be used to cross check a database with other components of an information system are classified as CASE tools. back-end
Level: Medium Mannino - Chapter 02 #76

Chapter 02 Introduction to Database Development Summary

<u>Category</u>	# of Questions
Level: Easy	23
Level: Hard	12
Level: Medium	41
Mannino - Chapter 02	76