

## **Multiple Choice Questions & Answers**

**1. What type of system primarily focuses on the historical perspective in database applications?**

- a) Database System Applications
- b) File Systems versus a DBMS
- c) The Data Model
- d) Levels of Abstraction in a DBMS

Answer: b) File Systems versus a DBMS

**2. In the comparison between file systems and DBMS, which system emphasizes structured data management?**

- a) File Systems
- b) DBMS
- c) The Data Model
- d) Levels of Abstraction in a DBMS

Answer: b) DBMS

**3. What does the data model primarily represent in database systems?**

- a) A physical storage structure
- b) A way to access files
- c) A representation of data and relationships
- d) A set of database operations

Answer: c) A representation of data and relationships

**4. Which level of abstraction in a DBMS deals with the logical representation of data?**

- a) Physical level

- b) Logical level
- c) External level
- d) Conceptual level

Answer: b) Logical level

**5. What does data independence primarily refer to in database systems?**

- a) Data that is not stored
- b) The separation of data from structure
- c) Data that is not subject to change
- d) Data that is freely available

Answer: b) The separation of data from structure

**6. Which component provides an overview of the structure of a DBMS?**

- a) Data Model
- b) File Systems
- c) Levels of Abstraction
- d) Structure of a DBMS

Answer: d) Structure of a DBMS

**7. What is the primary purpose of an ER diagram in database design?**

- a) To specify data types
- b) To define relationships between entities
- c) To indicate physical storage details
- d) To organize entities into sets

Answer: b) To define relationships between entities

**8. In ER modeling, what do entities represent?**

- a) Data types
- b) Storage locations
- c) Real-world objects
- d) Hardware components

Answer: c) Real-world objects

**9. Which term describes the association between two entities in an ER diagram?**

- a) Attribute
- b) Entity
- c) Relationship
- d) Schema

Answer: c) Relationship

**10. What is the main advantage of using a DBMS compared to traditional file systems?**

- a) Faster data retrieval
- b) Simplified data organization
- c) Lower hardware requirements
- d) Reduced data security

Answer: b) Simplified data organization

**11. What term refers to the separation of data from the applications that use the data?**

- a) Data Modeling
- b) Data Abstraction
- c) Data Independence
- d) Data Security

Answer: c) Data Independence

**12. What is the primary purpose of the "Structure of a DBMS" component?**

- a) To explain database design principles
- b) To compare different DBMS architectures
- c) To provide an overview of database system components
- d) To discuss data modeling techniques

Answer: c) To provide an overview of database system components

**13. In an ER diagram, what does a diamond shape represent?**

- a) Entity
- b) Attribute
- c) Relationship
- d) Key constraint

Answer: c) Relationship

**14. Which of the following is NOT typically considered an entity in a database?**

- a) Employee
- b) Customer
- c) Postal Code
- d) Order

Answer: c) Postal Code

**15. What is the purpose of a primary key in a database table?**

- a) It ensures that all data is stored in the database
- b) It establishes relationships between tables

- c) It provides a physical storage layout for data
- d) It defines the data type for a column

Answer: a) It ensures that all data is stored in the database

**16. In the Entity-Relationship (ER) model, what does an entity set represent?**

- a) A set of attributes
- b) A collection of entities
- c) A subset of relationships
- d) A database table

Answer: b) A collection of entities

**17. Which of the following is NOT an example of an attribute in a database?**

- a) Name
- b) Age
- c) Employee
- d) Date of Birth

Answer: c) Employee

**18. What is the purpose of cardinality in the context of relationship sets in a database?**

- a) It defines the number of entities in a relationship
- b) It specifies the data types of attributes
- c) It determines the order of tuples in a table
- d) It represents a key constraint in a table

Answer: a) It defines the number of entities in a relationship

**19. What type of data model represents data as a collection of objects with properties and methods?**

- a) Hierarchical Model
- b) Relational Model
- c) Object-Oriented Model
- d) Network Model

Answer: c) Object-Oriented Model

**20. What is normalization in the context of database design?**

- a) The process of reducing data redundancy
- b) The process of converting data into a specific format
- c) The process of creating relationships between tables
- d) The process of indexing data for faster retrieval

Answer: a) The process of reducing data redundancy

**21. Which type of data independence deals with changes in the logical structure of the data?**

- a) Logical Data Independence
- b) Physical Data Independence
- c) Structural Data Independence
- d) Conceptual Data Independence

Answer: a) Logical Data Independence

**22. What is the purpose of a foreign key in a database table?**

- a) It ensures that all data is stored in the database
- b) It establishes relationships between tables
- c) It defines the data type for a column
- d) It specifies the primary key of a table

Answer: b) It establishes relationships between tables

**23. Which level of abstraction in a DBMS deals with the physical storage details of data?**

- a) Physical level
- b) Logical level
- c) External level
- d) Conceptual level

Answer: a) Physical level

**24. In a relational database, what is a tuple?**

- a) A table
- b) A row
- c) An attribute
- d) A database

Answer: b) A row

**25. What is the primary purpose of indexing in a database?**

- a) To create relationships between tables
- b) To define data types for attributes
- c) To ensure data uniqueness
- d) To optimize data retrieval

Answer: d) To optimize data retrieval

**26. Which data model represents data as a collection of nodes connected by edges?**

- a) Hierarchical Model
- b) Relational Model
- c) Network Model

d) Object-Oriented Model

Answer: c) Network Model

**27. What is a database schema?**

a) A table

b) A row

c) A column

d) A database structure definition

Answer: d) A database structure definition

**28. What is the purpose of an ER diagram's cardinality notation?**

a) To specify the data types of attributes

b) To define the number of entities in a relationship

c) To indicate the physical storage details

d) To create relationships between entities

Answer: b) To define the number of entities in a relationship

**29. What is the primary goal of database normalization?**

a) To optimize data retrieval

b) To reduce data redundancy

c) To create relationships between tables

d) To specify the foreign keys

Answer: b) To reduce data redundancy

**30. Which type of data independence deals with changes in the physical storage structures without affecting the logical schema?**

a) Logical Data Independence



- b) Physical Data Independence
- c) Structural Data Independence
- d) Conceptual Data Independence

Answer: b) Physical Data Independence

**31. What is the purpose of a foreign key constraint in a database table?**

- a) It enforces data integrity
- b) It specifies the primary key of a table
- c) It defines the cardinality of a relationship
- d) It represents the physical organization of data

Answer: a) It enforces data integrity

**32. Which level of abstraction in a DBMS deals with the users' view of the data?**

- a) Physical level
- b) Logical level
- c) External level
- d) Conceptual level

Answer: c) External level

**33. In a relational database, what is an attribute?**

- a) A table
- b) A row
- c) A column
- d) A database

Answer: c) A column

**34. What is the primary purpose of indexing in a database?**

- a) To create relationships between tables
- b) To define data types for attributes
- c) To ensure data uniqueness
- d) To optimize data retrieval

Answer: d) To optimize data retrieval

**35. Which data model represents data as a collection of nodes connected by edges?**

- a) Hierarchical Model
- b) Relational Model
- c) Network Model
- d) Object-Oriented Model

Answer: c) Network Model

**36. What is a database schema?**

- a) A table
- b) A row
- c) A column
- d) A database structure definition

Answer: d) A database structure definition

**37. What is the purpose of an ER diagram's cardinality notation?**

- a) To specify the data types of attributes
- b) To define the number of entities in a relationship
- c) To indicate the physical storage details
- d) To create relationships between entities

Answer: b) To define the number of entities in a relationship

**38. What is the primary goal of database normalization?**

- a) To optimize data retrieval
- b) To reduce data redundancy
- c) To create relationships between tables
- d) To specify the foreign keys

Answer: b) To reduce data redundancy

**39. Which type of data independence deals with changes in the physical storage structures without affecting the logical schema?**

- a) Logical Data Independence
- b) Physical Data Independence
- c) Structural Data Independence
- d) Conceptual Data Independence

Answer: b) Physical Data Independence

**40. What is the purpose of a foreign key constraint in a database table?**

- a) It enforces data integrity
- b) It specifies the primary key of a table
- c) It defines the cardinality of a relationship
- d) It represents the physical organization of data

Answer: a) It enforces data integrity

**41. Which level of abstraction in a DBMS deals with the users' view of the data?**

- a) Physical level
- b) Logical level

- c) External level
- d) Conceptual level

Answer: c) External level

**42. In a relational database, what is an attribute?**

- a) A table
- b) A row
- c) A column
- d) A database

Answer: c) A column

**43. What is the primary purpose of indexing in a database?**

- a) To create relationships between tables
- b) To define data types for attributes
- c) To ensure data uniqueness
- d) To optimize data retrieval

Answer: d) To optimize data retrieval

**44. Which data model represents data as a collection of nodes connected by edges?**

- a) Hierarchical Model
- b) Relational Model
- c) Network Model
- d) Object-Oriented Model

Answer: c) Network Model

**45. What is a database schema?**

- a) A table
- b) A row
- c) A column
- d) A database structure definition

Answer: d) A database structure definition

**46. What is the purpose of an ER diagram's cardinality notation?**

- a) To specify the data types of attributes
- b) To define the number of entities in a relationship
- c) To indicate the physical storage details
- d) To create relationships between entities

Answer: b) To define the number of entities in a relationship

**47. What is the primary goal of database normalization?**

- a) To optimize data retrieval
- b) To reduce data redundancy
- c) To create relationships between tables
- d) To specify the foreign keys

Answer: b) To reduce data redundancy

**48. Which type of data independence deals with changes in the physical storage structures without affecting the logical schema?**

- a) Logical Data Independence
- b) Physical Data Independence
- c) Structural Data Independence
- d) Conceptual Data Independence

Answer: b) Physical Data Independence

**49. What is the purpose of a foreign key constraint in a database table?**

- a) It enforces data integrity
- b) It specifies the primary key of a table
- c) It defines the cardinality of a relationship
- d) It represents the physical organization of data

Answer: a) It enforces data integrity

**50. What is the primary purpose of integrity constraints in the relational model?**

- A) Ensure data privacy
- B) Enforce data accuracy and consistency
- C) Improve query performance
- D) Facilitate data retrieval

Answer: B) Enforce data accuracy and consistency

**51. Which of the following is NOT an example of an integrity constraint?**

- A) Primary key constraint
- B) Foreign key constraint
- C) Index constraint
- D) Check constraint

Answer: C) Index constraint

**52. How can you enforce integrity constraints in a relational database?**

- A) Use triggers and stored procedures
- B) Write custom application code
- C) Configure the database management system

D) None of the above

Answer: C) Configure the database management system

**53. Which type of integrity constraint ensures that each row in a table is uniquely identifiable?**

- A) Check constraint
- B) Foreign key constraint
- C) Primary key constraint
- D) Index constraint

Answer: C) Primary key constraint

**54. In the context of querying relational data, what is SQL an example of?**

- A) Relational Algebra
- B) Tuple Relational Calculus
- C) Domain Relational Calculus
- D) None of the above

Answer: A) Relational Algebra

**55. What is the primary goal of logical database design?**

- A) Improve data security
- B) Optimize database performance
- C) Organize data in a structured way
- D) Ensure data integrity and consistency

Answer: D) Ensure data integrity and consistency

**56. What is a view in a relational database?**

- A) A table with data

- B) A subset of rows from a table
- C) A data dictionary
- D) A query result

Answer: B) A subset of rows from a table

**57. Which SQL statement is used to destroy a table?**

- A) DELETE TABLE
- B) DROP TABLE
- C) REMOVE TABLE
- D) ERASE TABLE

Answer: B) DROP TABLE

**58. What is the purpose of a foreign key constraint?**

- A) Ensure unique values in a column
- B) Enforce referential integrity
- C) Define a primary key
- D) Improve query performance

Answer: B) Enforce referential integrity

**59. A connection between tables**

- A) A set of related attributes
- B) A data structure
- C) A database schema
- D) None of the above

Answer: A) A set of related attributes

**60. In the context of logical database design, what is normalization?**



- A) Storing data redundantly
- B) Organizing data into tables
- C) Reducing data redundancy
- D) None of the above

Answer: C) Reducing data redundancy

**61. What is the primary purpose of the Relational Algebra?**

- A) Retrieve specific data
- B) Define data relationships
- C) Express logical conditions
- D) None of the above

Answer: B) Define data relationships

**62. What type of constraint ensures that values in a column meet specific criteria?**

- A) Check constraint
- B) Foreign key constraint
- C) Primary key constraint
- D) Index constraint

Answer: A) Check constraint

**63. In the relational model, what is a view?**

- A) A physical data structure
- B) A subset of rows from a table
- C) A primary key constraint
- D) A data dictionary

Answer: B) A subset of rows from a table

**64. Which SQL statement is used to modify an existing table's structure by adding or deleting columns?**

- A) ALTER TABLE ADD/DROP COLUMN
- B) MODIFY TABLE
- C) CHANGE TABLE
- D) UPDATE TABLE

Answer: A) ALTER TABLE ADD/DROP COLUMN

**65. What is the primary purpose of a check constraint in a relational database?**

- A) Ensure data uniqueness
- B) Enforce data validation rules
- C) Create an index on a column
- D) Define primary keys

Answer: B) Enforce data validation rules

**66. What is the primary goal of enforcing integrity constraints in a database?**

- A) Improve data security
- B) Optimize query performance
- C) Ensure data accuracy and consistency
- D) Facilitate data retrieval

Answer: C) Ensure data accuracy and consistency

**67. Which type of integrity constraint ensures that each row in a table is uniquely identifiable?**

- A) Check constraint
- B) Foreign key constraint

C) Primary key constraint

D) Index constraint

Answer: C) Primary key constraint

**68. What is the primary goal of logical database design?**

A) Improve data security

B) Optimize database performance

C) Organize data in a structured way

D) Ensure data integrity and consistency

Answer: D) Ensure data integrity and consistency

**69. What is the purpose of a foreign key constraint?**

A) Ensure data uniqueness

B) Enforce referential integrity

C) Define a primary key

D) Improve query performance

Answer: B) Enforce referential integrity

**70. A connection between tables:**

A) A set of related attributes

B) A data structure

C) A database schema

D) None of the above

Answer: A) A set of related attributes

**71. In the context of logical database design, what is normalization?**

A) Storing data redundantly

- B) Organizing data into tables
- C) Reducing data redundancy
- D) None of the above

Answer: C) Reducing data redundancy

**72. What is the primary purpose of the Relational Algebra?**

- A) Retrieve specific data
- B) Define data relationships
- C) Express logical conditions
- D) None of the above

Answer: B) Define data relationships

**73. What type of constraint ensures that values in a column meet specific criteria?**

- A) Check constraint
- B) Foreign key constraint
- C) Primary key constraint
- D) Index constraint

Answer: A) Check constraint

**74. In the relational model, what is a view?**

- A) A physical data structure
- B) A subset of rows from a table
- C) A primary key constraint
- D) A data dictionary

Answer: B) A subset of rows from a table

**75. Which SQL statement is used to modify an existing table's structure by adding or deleting columns?**

- A) ALTER TABLE ADD/DROP COLUMN
- B) MODIFY TABLE
- C) CHANGE TABLE
- D) UPDATE TABLE

Answer: A) ALTER TABLE ADD/DROP COLUMN

**76. What is the primary purpose of a check constraint in a relational database?**

- A) Ensure data uniqueness
- B) Enforce data validation rules
- C) Create an index on a column
- D) Define primary keys

Answer: B) Enforce data validation rules

**77. What is the primary goal of enforcing integrity constraints in a database?**

- A) Improve data security
- B) Optimize query performance
- C) Ensure data accuracy and consistency
- D) Facilitate data retrieval

Answer: C) Ensure data accuracy and consistency

**78. Which SQL statement is used to destroy a table?**

- A) DELETE TABLE
- B) DROP TABLE
- C) REMOVE TABLE
- D) ERASE TABLE

Answer: B) DROP TABLE

**79. What is the purpose of a foreign key constraint?**

- A) Ensure data uniqueness
- B) Enforce referential integrity
- C) Define a primary key
- D) Improve query performance

Answer: B) Enforce referential integrity

**80. A connection between tables**

- A) A set of related attributes
- B) A data structure
- C) A database schema
- D) None of the above

Answer: A) A set of related attributes

**81. In the context of logical database design, what is normalization?**

- A) Storing data redundantly
- B) Organizing data into tables
- C) Reducing data redundancy
- D) None of the above

Answer: C) Reducing data redundancy

**82. What is the primary purpose of the Relational Algebra?**

- A) Retrieve specific data
- B) Define data relationships
- C) Express logical conditions

D) None of the above

Answer: B) Define data relationships

**83. What type of constraint ensures that values in a column meet specific criteria?**

A) Check constraint

B) Foreign key constraint

C) Primary key constraint

D) Index constraint

Answer: A) Check constraint

**84. In the relational model, what is a view?**

A) A physical data structure

B) A subset of rows from a table

C) A primary key constraint

D) A data dictionary

Answer: B) A subset of rows from a table

**85. Which SQL statement is used to modify an existing table's structure by adding or deleting columns?**

A) ALTER TABLE ADD/DROP COLUMN

B) MODIFY TABLE

C) CHANGE TABLE

D) UPDATE TABLE

Answer: A) ALTER TABLE ADD/DROP COLUMN

**86. What is the primary purpose of a check constraint in a relational database?**

- A) Ensure data uniqueness
- B) Enforce data validation rules
- C) Create an index on a column
- D) Define primary keys

Answer: B) Enforce data validation rules

**87. What is the primary goal of enforcing integrity constraints in a database?**

- A) Improve data security
- B) Optimize query performance
- C) Ensure data accuracy and consistency
- D) Facilitate data retrieval

Answer: C) Ensure data accuracy and consistency

**88. Which type of integrity constraint ensures that each row in a table is uniquely identifiable?**

- A) Check constraint
- B) Foreign key constraint
- C) Primary key constraint
- D) Index constraint

Answer: C) Primary key constraint

**89. What is the primary goal of logical database design?**

- A) Improve data security
- B) Optimize database performance
- C) Organize data in a structured way
- D) Ensure data integrity and consistency

Answer: D) Ensure data integrity and consistency



**90. What is the purpose of a foreign key constraint?**

- A) Ensure data uniqueness
- B) Enforce referential integrity
- C) Define a primary key
- D) Improve query performance

Answer: B) Enforce referential integrity

**91. A connection between tables**

- A) A set of related attributes
- B) A data structure
- C) A database schema
- D) None of the above

Answer: A) A set of related attributes

**92. In the context of logical database design, what is normalization?**

- A) Storing data redundantly
- B) Organizing data into tables
- C) Reducing data redundancy
- D) None of the above

Answer: C) Reducing data redundancy

**93. What is the primary purpose of the Relational Algebra?**

- A) Retrieve specific data
- B) Define data relationships
- C) Express logical conditions
- D) None of the above

Answer: B) Define data relationships

**94. What type of constraint ensures that values in a column meet specific criteria?**

- A) Check constraint
- B) Foreign key constraint
- C) Primary key constraint
- D) Index constraint

Answer: A) Check constraint

**95. In the relational model, what is a view?**

- A) A physical data structure
- B) A subset of rows from a table
- C) A primary key constraint
- D) A data dictionary

Answer: B) A subset of rows from a table

**96. Which SQL statement is used to modify an existing table's structure by adding or deleting columns?**

- A) ALTER TABLE ADD/DROP COLUMN
- B) MODIFY TABLE
- C) CHANGE TABLE
- D) UPDATE TABLE

Answer: A) ALTER TABLE ADD/DROP COLUMN

**97. What is the primary purpose of a check constraint in a relational database?**

- A) Ensure data uniqueness

- B) Enforce data validation rules
- C) Create an index on a column
- D) Define primary keys

Answer: B) Enforce data validation rules

**98. What is the primary goal of enforcing integrity constraints in a database?**

- A) Improve data security
- B) Optimize query performance
- C) Ensure data accuracy and consistency
- D) Facilitate data retrieval

Answer: C) Ensure data accuracy and consistency

**99. Which SQL statement is used to destroy a table?**

- A) DELETE TABLE
- B) DROP TABLE
- C) REMOVE TABLE
- D) ERASE TABLE

Answer: B) DROP TABLE

**100. What does SQL stand for?**

- A) Structured Query Language
- B) Simple Table Query Language
- C) Systematic Query Language
- D) None of the above

Answer: A) Structured Query Language

**101. Which SQL clause is used to filter rows based on a specified condition?**

- A) SELECT
- B) WHERE
- C) FROM
- D) ORDER BY

Answer: B) WHERE

**102. What is the result of combining two result sets using the UNION operator in SQL?**

- A) All unique rows from both result sets
- B) Only common rows between both result sets
- C) All rows from both result sets, including duplicates
- D) None of the above

Answer: A) All unique rows from both result sets

**103. Which SQL operator is used to retrieve all rows that appear in both result sets?**

- A) UNION
- B) INTERSECT
- C) EXCEPT
- D) JOIN

Answer: B) INTERSECT

**104. What is a nested SQL query?**

- A) A query that retrieves data from multiple tables
- B) A query that contains subqueries within the main query
- C) A query that joins two or more tables
- D) A query that selects specific columns from a table

Answer: B) A query that contains subqueries within the main query

**105. What is the purpose of SQL aggregation operators like COUNT, SUM, AVG, and MAX?**

- A) To filter rows in a table
- B) To perform mathematical calculations on data
- C) To join multiple tables
- D) To sort data in ascending order

Answer: B) To perform mathematical calculations on data

**106. In SQL, what does the term "NULL" represent?**

- A) A value of zero
- B) An empty string
- C) Missing or unknown data
- D) A placeholder for a future value

Answer: C) Missing or unknown data

**107. What are complex integrity constraints in SQL?**

- A) Constraints involving primary keys
- B) Constraints involving foreign keys
- C) Constraints that combine multiple conditions
- D) Constraints that enforce data privacy

Answer: C) Constraints that combine multiple conditions

**108. What is a SQL trigger?**

- A) A database table
- B) A software tool for debugging
- C) A stored procedure that automatically executes in response to a specific event

D) A type of SQL query

Answer: C) A stored procedure that automatically executes in response to a specific event

**109. Which SQL statement is used to add a new row to a table?**

A) INSERT INTO

B) UPDATE

C) DELETE

D) SELECT

Answer: A) INSERT INTO

**110. What is the purpose of a primary key constraint in SQL?**

A) To ensure data uniqueness in a column

B) To enforce referential integrity

C) To define a foreign key

D) To optimize query performance

Answer: A) To ensure data uniqueness in a column

**111. Which SQL clause is used to sort the result set in descending order?**

A) DESCENDING

B) SORT

C) ASC

D) ORDER BY

Answer: A) DESCENDING

**112. What is the purpose of the SQL GROUP BY clause?**

A) To filter rows in a table

- B) To perform mathematical calculations on data
- C) To group rows with the same values into summary rows
- D) To join multiple tables

Answer: C) To group rows with the same values into summary rows

**113. Which SQL statement is used to change existing data in a table?**

- A) INSERT INTO
- B) UPDATE
- C) DELETE
- D) SELECT

Answer: B) UPDATE

**114. What is the primary role of SQL views?**

- A) To store data permanently
- B) To simplify complex queries
- C) To enforce data constraints
- D) To define primary keys

Answer: B) To simplify complex queries

**115. What SQL operator is used to retrieve rows based on a pattern match?**

- A) LIKE
- B) BETWEEN
- C) IN
- D) JOIN

Answer: A) LIKE

**116. What is the purpose of a foreign key constraint in SQL?**

- A) To ensure data uniqueness
- B) To enforce referential integrity
- C) To define a primary key
- D) To improve query performance

Answer: B) To enforce referential integrity

**117. What is the primary goal of enforcing integrity constraints in a database?**

- A) To improve data security
- B) To optimize query performance
- C) To ensure data accuracy and consistency
- D) To facilitate data retrieval

Answer: C) To ensure data accuracy and consistency

**118. What SQL statement is used to destroy a database table?**

- A) DELETE TABLE
- B) DROP TABLE
- C) REMOVE TABLE
- D) ERASE TABLE

Answer: B) DROP TABLE

**119. In SQL, what is the purpose of the DISTINCT keyword in a SELECT statement?**

- A) To filter rows based on a condition
- B) To perform mathematical calculations on data
- C) To eliminate duplicate rows from the result set
- D) To join multiple tables

Answer: C) To eliminate duplicate rows from the result set



**120. What is the purpose of the SQL HAVING clause?**

- A) To filter rows in a table
- B) To perform mathematical calculations on data
- C) To filter groups in the result set based on a condition
- D) To sort data in descending order

Answer: C) To filter groups in the result set based on a condition

**121. Which SQL statement is used to destroy a view?**

- A) DELETE VIEW
- B) DROP VIEW
- C) REMOVE VIEW
- D) ERASE VIEW

Answer: B) DROP VIEW

**122. In SQL, what is a subquery?**

- A) A query that retrieves all columns from a table
- B) A query that joins multiple tables
- C) A query embedded within another query
- D) A query that uses the UNION operator

Answer: C) A query embedded within another query

**123. What is the purpose of the SQL ORDER BY clause?**

- A) To filter rows in a table
- B) To perform mathematical calculations on data
- C) To sort the result set based on specified columns
- D) To group rows in the result set

Answer: C) To sort the result set based on specified columns

**124. What is the primary purpose of SQL constraints?**

- A) To add new rows to a table
- B) To define the database schema
- C) To enforce data integrity rules
- D) To perform complex calculations

Answer: C) To enforce data integrity rules

**125. Which of the following is not a valid SQL type?**

- A) FLOAT
- B) NUMERIC
- C) DECIMAL
- D) CHARACTER

Answer: C) DECIMAL

