Database Exam

1. What does ERD stand for?
A) Entity Relation Diagram
B) Entity Relationship Diagram
C) Entity Relational Data
D) Entity Relation Design
2. Which of the following represents a primary key in ERD?
A) Rectangle
B) Ellipse
C) Underlined Attribute
D) Diamond
3. In database normalization, what is the main goal?
A) To duplicate data
B) To remove redundancy
C) To increase data size
D) To reduce data retrieval speed
4. Which normalization form eliminates partial dependency?
A) 1NF
B) 2NF
C) 3NF
D) BCNF
5. Which phase of database design involves defining tables, indexes, and storage parameters?
A) Logical Schema
B) Mapping Rules
C) Physical Schema
D) ERD

D) I i I D
B) Logical Design
C) Physical Design
D) Data Modeling
7. What is the rule to convert a weak entity in ERD to a table?
A) It should have its own primary key.
B) It should inherit the primary key from the strong entity.
C) It should merge with the strong entity.
D) It should create an intersection table.
8. Which of the following refers to a logical schema?
A) Hardware-level data storage
B) Conceptual data model
C) Database metadata definition
D) User interface definition
9. Which normal form ensures that there is no transitive dependency?
A) 1NF
A) 1NF B) 2NF
B) 2NF
B) 2NF C) 3NF
B) 2NF C) 3NF
B) 2NF C) 3NF D) 4NF
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema?
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage B) Mapping rules are for normal forms only
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage B) Mapping rules are for normal forms only C) Mapping rules convert logical schema to physical schema
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage B) Mapping rules are for normal forms only C) Mapping rules convert logical schema to physical schema
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage B) Mapping rules are for normal forms only C) Mapping rules convert logical schema to physical schema D) Mapping rules describe entity constraints
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage B) Mapping rules are for normal forms only C) Mapping rules convert logical schema to physical schema D) Mapping rules describe entity constraints 11. During which phase of database design are storage requirements evaluated?
B) 2NF C) 3NF D) 4NF 10. What is the relationship between mapping rules and physical schema? A) Mapping rules define physical storage B) Mapping rules are for normal forms only C) Mapping rules convert logical schema to physical schema D) Mapping rules describe entity constraints 11. During which phase of database design are storage requirements evaluated? A) Logical Design

6. Which phase of database design involves converting ERD to tables?

12. Which command is used to create a new table in SQL?
A) INSERT
B) SELECT
C) CREATE
D) UPDATE
13. Which command is used to modify data in a table?
A) DELETE
B) ALTER
C) UPDATE
D) TRUNCATE
14. DCL commands are mainly used for:
A) Transaction control
B) Data retrieval
C) Data security
D) Table modification
15. Which of the following is a DML command?
13. Which of the following is a DML command:
A) GRANT
A) GRANT
A) GRANT B) SELECT
A) GRANT B) SELECT C) INSERT
A) GRANT B) SELECT C) INSERT
A) GRANT B) SELECT C) INSERT D) ROLLBACK
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL?
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions B) View data
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions B) View data C) Save changes
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions B) View data C) Save changes
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions B) View data C) Save changes D) Define data structures
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions B) View data C) Save changes D) Define data structures 17. Which of the following commands is used to ensure data consistency?
A) GRANT B) SELECT C) INSERT D) ROLLBACK 16. What is the purpose of the COMMIT command in SQL? A) Rollback transactions B) View data C) Save changes D) Define data structures 17. Which of the following commands is used to ensure data consistency? A) GRANT

18. Which command in SQL is used to change the structure of an existing table?
A) UPDATE
B) ALTER
C) CREATE
D) MERGE
19. What does DQL stand for in SQL?
A) Data Query Language
B) Database Query Language
C) Data Quality Language
D) Direct Query Language
20. Which TCL command is used to undo a transaction in SQL?
A) SAVEPOINT
B) COMMIT
C) ROLLBACK
D) GRANT
21. Which of the following is NOT a DML command?
A) SELECT
B) DELETE
C) UPDATE
D) REVOKE
22. What is the main role of the ROLLBACK command?
A) To save a transaction
B) To undo uncommitted transactions
C) To view data
D) To create a backup
23. Which of the following is used to grant permissions to users in SQL?
A) SELECT
B) ALTER
C) GRANT
D) COMMIT

A) DDL
B) DML
C) TCL
D) DCL
25. Which command ensures that a user's changes are permanently recorded in a database?
A) ROLLBACK
B) COMMIT
C) GRANT
D) DELETE
26. Which of the following is NOT a feature of the ALTER command in SQL?
A) Change data type of columns
B) Add new columns
C) Rename tables
D) Insert data
27. What does an INNER JOIN do?
A) Combines all rows from two tables
B) Combines rows with matching values in both tables
C) Combines rows with no matching values
D) Combines only null values
28. Which type of join returns all rows from both tables, matching rows where possible?
A) INNER JOIN
B) LEFT JOIN
C) FULL OUTER JOIN
D) CROSS JOIN
20. What I find a figure is yeard to notion all records from the left table and matched records from the night table?
29. What kind of join is used to return all records from the left table and matched records from the right table?
A) INNER JOIN
A) INNER JOIN

24. In which division is the Union statement categorized in SQL?

A) Left Table
B) Right Table
C) Both Tables
D) Neither Table
31. What does a CROSS JOIN produce?
A) Cartesian product of two tables
B) Matched rows only
C) Unmatched rows only
D) NULL values
32. Which join is suitable for finding unmatched records in two tables?
A) INNER JOIN
B) OUTER JOIN
C) SELF JOIN
D) CROSS JOIN
33. What is the result of a SELF JOIN?
55. What is the result of a SELF JOHN:
A) Combination of rows from two different tables
A) Combination of rows from two different tables
A) Combination of rows from two different tables B) Combination of rows from the same table
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B?
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN B) INNER JOIN
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN B) INNER JOIN C) RIGHT JOIN
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN B) INNER JOIN C) RIGHT JOIN
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN B) INNER JOIN C) RIGHT JOIN D) CROSS JOIN
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN B) INNER JOIN C) RIGHT JOIN D) CROSS JOIN 35. Which of the following join types produces duplicate rows if a column has duplicate values?
A) Combination of rows from two different tables B) Combination of rows from the same table C) Null values only D) Duplicate rows only 34. Which join can be used to match rows from Table A that have no corresponding rows in Table B? A) LEFT JOIN B) INNER JOIN C) RIGHT JOIN D) CROSS JOIN 35. Which of the following join types produces duplicate rows if a column has duplicate values? A) FULL JOIN

30. In a RIGHT JOIN, which table's unmatched rows are also returned?

36. In SQL, which join would you use to combine a table with itself?
A) SELF JOIN
B) OUTER JOIN
C) CROSS JOIN
D) FULL JOIN
37. When using a FULL OUTER JOIN, what happens when no matching rows exist between the tables?
A) Only matching rows are returned
B) NULL values are used to fill the gaps
C) No rows are returned
D) Only unmatched rows are returned
38. Which of the following conditions is used to join two tables based on column values?
A) USING
B) JOIN ON
C) JOIN WITH
D) JOIN WHERE
39. Which join is most commonly used to fetch records that exist in both tables?
A) LEFT JOIN
B) RIGHT JOIN
C) INNER JOIN
D) CROSS JOIN
40. Which of the following is an aggregation function in SQL?
A) JOIN()
B) SUM()
C) IF()
D) CASE()
41. Which function calculates the average value of a column?
A) AVG()
B) SUM()
C) COUNT()
D) MIN()

42. What is the role of the COUNT() function?
A) Count only distinct rows
B) Count only numeric values
C) Count all rows, including nulls
D) Count only rows with NULL values
43. Which of the following statements is TRUE about the AVG() function?
A) It ignores NULL values.
B) It counts NULL values.
C) It replaces NULL values with zero.
D) It calculates the sum of all values.
44. How can you find the sum of distinct values in a column using SQL?
A) SUM(DISTINCT column_name)
B) DISTINCT SUM(column_name)
C) UNIQUE SUM(column_name)
D) SUM(UNIQUE column_name)
45. Which SQL clause is typically used with aggregate functions?
A) WHERE
B) HAVING
C) ORDER BY
C) SKBEK B1
D) JOIN
D) JOIN
D) JOIN 46. What does COUNT(1) return in SQL?
D) JOIN 46. What does COUNT(1) return in SQL? A) Count of NULL rows
D) JOIN 46. What does COUNT(1) return in SQL? A) Count of NULL rows B) Count of all rows, including NULLs
D) JOIN 46. What does COUNT(1) return in SQL? A) Count of NULL rows B) Count of all rows, including NULLs C) Count of rows with 1s
D) JOIN 46. What does COUNT(1) return in SQL? A) Count of NULL rows B) Count of all rows, including NULLs C) Count of rows with 1s
A) Count of NULL rows B) Count of all rows, including NULLs C) Count of rows with 1s D) Count of distinct rows
46. What does COUNT(1) return in SQL? A) Count of NULL rows B) Count of all rows, including NULLs C) Count of rows with 1s D) Count of distinct rows 47. Which of the following is used to group rows with similar values?
D) JOIN 46. What does COUNT(1) return in SQL? A) Count of NULL rows B) Count of all rows, including NULLs C) Count of rows with 1s D) Count of distinct rows 47. Which of the following is used to group rows with similar values? A) ORDER BY

48. Which aggregate function allows for the use of window functions in SQL?
A) AVG()
B) ROW_NUMBER()
C) COUNT()
D) RANK()
49. How does the HAVING clause differ from the WHERE clause in SQL?
A) HAVING filters rows before grouping.
B) HAVING filters rows after grouping.
C) WHERE filters rows after aggregation.
D) WHERE filters grouped rows only.
50. What will COUNT(DISTINCT column_name) return in SQL?
A) Total count of rows
B) Count of non-null rows
C) Count of distinct values
D) Count of all null values
51. Which of the following statements is used to get the number of different values in a column?
A) COUNT(column_name)
B) COUNT(DISTINCT column_name)
C) SUM(column_name)
D) AVG(column_name)
52. What is the first step in SQL execution order?
A) SELECT
B) FROM
C) WHERE
D) GROUP BY
53. In which order is the SELECT statement executed in SQL?
A) SELECT \rightarrow FROM \rightarrow WHERE
B) FROM \rightarrow WHERE \rightarrow SELECT
C) WHERE \rightarrow FROM \rightarrow SELECT
D) SELECT \rightarrow WHERE \rightarrow FROM

54. What does the WHERE clause filter in SQL?
A) Columns
B) Rows
C) Tables
D) Joins
55. Which clause is used to sort the result set in SQL?
A) GROUP BY
B) HAVING
C) ORDER BY
D) LIMIT
56. Which clause is used to filter aggregated results in SQL?
A) WHERE
B) HAVING
C) GROUP BY
D) ORDER BY
57. Which of the following clauses is executed last in an SQL query?
A) FROM
B) SELECT
C) WHERE
D) ORDER BY
58. In SQL, which step of execution evaluates the JOIN condition?
A) WHERE
B) FROM
C) SELECT
D) HAVING
59. Which clause is used before aggregation in SQL?
A) WHERE
B) HAVING
C) ORDER BY
D) SELECT

60. What is the correct order of execution for the following clauses: SELECT, GROUP BY, HAVING?
A) SELECT \rightarrow GROUP BY \rightarrow HAVING
B) GROUP BY \rightarrow HAVING \rightarrow SELECT
C) FROM \rightarrow GROUP BY \rightarrow HAVING \rightarrow SELECT
D) FROM \rightarrow SELECT \rightarrow GROUP BY \rightarrow HAVING
61. Which clause is responsible for grouping data in SQL?
A) GROUP BY
B) HAVING
C) ORDER BY
D) WHERE
62. Which of the following clauses filters aggregated data?
A) WHERE
B) HAVING
C) GROUP BY
D) ORDER BY
63. Which clause is responsible for filtering rows before aggregation?
A) HAVING
B) WHERE
C) GROUP BY
D) SELECT
64. What is the correct order of the SOL execution plan?
 64. What is the correct order of the SQL execution plan? A) FROM → WHERE → GROUP BY → HAVING → SELECT → ORDER BY
B) WHERE \rightarrow FROM \rightarrow SELECT \rightarrow GROUP BY \rightarrow ORDER BY \rightarrow HAVING
C) SELECT \rightarrow WHERE \rightarrow FROM \rightarrow GROUP BY \rightarrow HAVING \rightarrow ORDER BY
D) GROUP BY \rightarrow HAVING \rightarrow FROM \rightarrow WHERE \rightarrow SELECT \rightarrow ORDER BY
DI OROGI DI TIMVINO TIROM - WHERE - SELECI - ORDER DI
65. In which part of SQL execution is the join condition applied?
A) WHERE clause

B) FROM clause

C) SELECT clause

D) HAVING clause

66. What does the RANK() function do in SQL?
A) Returns the sum of rows
B) Assigns a rank to each row
C) Counts NULL values
D) Groups similar values
67. Which rank function assigns a rank to rows without gaps in the ranking sequence?
A) DENSE_RANK()
B) RANK()
C) ROW_NUMBER()
D) NTILE()
68. What is the difference between RANK() and DENSE_RANK()?
A) RANK() has gaps; DENSE_RANK() does not
B) RANK() has no gaps; DENSE_RANK() has gaps
C) Both have gaps in rank assignment
D) Neither has gaps in rank assignment
69. Which of the following rank functions can be used to divide rows into equal parts?
A) RANK()
B) NTILE()
C) ROW_NUMBER()
D) DENSE_RANK()
70. Which rank function assigns a unique rank to each row in the result set?
A) ROW_NUMBER()
B) DENSE_RANK()
C) RANK()
D) NTILE()
71. How does NTILE() distribute rows?
A) Divides rows into a specified number of equal parts
B) Assigns ranks to rows
C) Assigns row numbers

D) Groups similar rows

72. What is the difference between ROW NUMBER() and RANK()? A) ROW NUMBER() assigns unique numbers, RANK() may assign duplicate ranks B) RANK() assigns unique numbers, ROW NUMBER() assigns duplicate numbers C) Both assign unique numbers D) Both assign duplicate ranks 73. Which rank function is ideal for assigning sequential integers starting from 1? A) DENSE RANK() B) RANK() C) ROW NUMBER() D) NTILE() 74. In which clause is the RANK() function used? A) GROUP BY B) ORDER BY C) HAVING D) SELECT 75. What happens when there are duplicates in the column on which RANK() is based? A) Gaps are created in the ranking sequence B) Ranks are always sequential C) All ranks are the same D) No ranks are assigned 76. Which of the following statements is used to rank rows based on a specific column? A) SELECT column name, RANK() OVER(ORDER BY column name) B) SELECT RANK(column name) C) SELECT column name, RANK(column name) D) SELECT RANK OVER(column name) 77. How is DENSE_RANK() different from ROW_NUMBER() in terms of handling duplicates?

A) DENSE RANK() skips numbers; ROW NUMBER() does not

B) ROW NUMBER() skips numbers; DENSE RANK() does not

C) Both skip numbers

D) Neither skips numbers

78. How is the ranking sequence affected when using ROW NUMBER()? A) It skips ranks for duplicates B) It is sequential without skipping C) It assigns the same rank to duplicates D) It ignores duplicates 79. What is a view in SQL? A) A temporary table B) A virtual table C) A permanent table D) An index 80. What is the purpose of a function in SQL? A) Create new tables B) Perform specific operations and return results C) Delete rows D) Update records 81. Can a view be updated in SQL? A) Yes, always B) Yes, but with limitations C) No, never D) Only during transactions 82. What type of function is used to perform calculations and return a single value? A) Scalar function B) Table-valued function C) Aggregate function D) Window function 83. Which of the following is a benefit of using views in SQL? A) Data security B) Data duplication

C) Performance degradation

D) Increase in storage

84. What is the difference between a table-valued function and a scalar function? A) Table-valued returns rows; scalar returns a single value B) Scalar returns rows; table-valued returns a single value C) Both return single values D) Both return rows 85. Which of the following is a characteristic of a stored function in SQL? A) It can be used in SELECT statements B) It cannot return any value C) It is used to update tables only D) It runs only once 86. Which SQL statement would you use to execute a stored function? - A) SELECT function name(arguments) - B) EXECUTE function name(arguments) - C) INSERT function name(arguments) - D) DELETE function name(arguments) 87. What is a stored procedure in SQL? A) A predefined query that performs a specific task B) A temporary table C) An external script D) A data backup method 88. What is the primary purpose of a trigger in SQL? A) To store data permanently B) To automatically execute a response to a specific event C) To back up databases D) To generate reports 89. Which of the following can be controlled using triggers in a database? A) User roles B) Database optimization

C) Data consistency and integrity

D) Index creation

90. What is the main difference between a stored procedure and a trigger?
A) Stored procedures are event-driven, triggers are not.
B) Triggers are event-driven, stored procedures are not.
C) Both are event-driven.
D) Both are not event-driven.
91. Which clause is used to declare variables in stored procedures?
A) DECLARE
B) SET
C) BEGIN
D) INITIATE
92. How can a stored procedure be executed?
A) EXECUTE
B) RUN
C) SELECT
D) CALL PROCEDURE
93. What is the purpose of using parameters in stored procedures?
A) To create views
B) To pass values for specific tasks
C) To back up data
D) To generate indexes
94. Which of the following allows for the execution of multiple SQL statements in a single stored procedure?
A) BEGIN-END block
B) IF-ELSE block
C) DECLARE block
D) SELECT block
95. Which trigger type is fired after both INSERT and UPDATE operations?
A) AFTER INSERT
B) AFTER UPDATE
C) AFTER INSERT OR UPDATE

D) BEFORE INSERT

96. What is a major benefit of using triggers for auditing purposes?
A) Easy deletion of records
B) Automatic tracking of changes
C) Data compression
D) Better storage management
97. What can be used within a stored procedure to control the flow of execution?
A) IF-ELSE statements
B) VIEWS
C) AGGREGATION functions
D) INDEXES
98. What is a cursor in SQL?
A) A pointer to fetch rows one-by-one
B) A data type for tables
C) A column in a table
D) A row identifier
99. Which command is used to declare a variable in SQL?
A) CREATE VARIABLE
B) DECLARE
C) SET VARIABLE
D) ASSIGN
100. What is the main purpose of using a cursor?
A) To store data
B) To fetch and process rows individually
C) To create tables
D) To create indexes
101. Which of the following is a step in using a cursor?
A) OPEN
B) INSERT
C) CREATE

D) SELECT

102. What does the CLOSE statement do for a cursor? A) Declares a cursor B) Ends the processing of a cursor C) Deletes a cursor D) Creates a cursor 103. Which clause is used to assign values to variables in SQL? A) SET B) SELECT INTO C) DECLARE D) INITIATE 104. What is the purpose of the FETCH statement in cursor operations? A) To close a cursor B) To retrieve the next row in the result set C) To open a cursor D) To declare a cursor 105. How can you check if a cursor has reached the end of the result set? A) @@CURSOR STATUS B) @@FETCH STATUS C) @@ROWCOUNT D) @@VERSION 106. Which statement is used to remove a declared variable? A) DELETE VARIABLE B) DROP VARIABLE C) DEALLOCATE VARIABLE D) NULLIFY VARIABLE 107. How can you make a cursor read-only? A) DECLARE cursor name READONLY B) DECLARE cursor name CURSOR FOR READ

C) DECLARE cursor_name FOR UPDATE

D) DECLARE cursor name CURSOR READONLY

108. Which of the following closes an open cursor and releases associated resources?
A) DEALLOCATE
B) CLOSE
C) FETCH
D) DELETE
109. What is an index in SQL?
A) A structure to speed up queries
B) A backup of a database
C) A storage space for data
D) A type of cursor
110. What is the primary purpose of denormalization in databases?
A) To improve read performance
B) To reduce data redundancy
C) To normalize data
D) To increase storage capacity
111. Which command is used to create an index on a table?
A) CREATE INDEX
B) CREATE VIEW
C) CREATE TRIGGER
D) CREATE PROCEDURE
112. What type of index is created automatically on primary keys?
A) Clustered index
B) Non-clustered index
C) Composite index
D) Full-text index
113. Which of the following best describes denormalization?
A) Adding redundant data for faster retrieval
B) Removing redundant data

C) Normalizing data to 3NF

D) Encrypting data

114. What is the major trade-off of denormalization?

- A) Increased storage space
- B) Reduced read performance
- C) Better data integrity
- D) Increased data normalization

115. How can indexing improve query performance?

- A) By reducing the need for joins
- B) By speeding up data retrieval
- C) By duplicating rows
- D) By adding more constraints

116. What is a non-clustered index?

A) An index that stores pointers to the actual data

- B) An index that stores data in sorted order
- C) An index for text columns only
- D) An index for temporary tables only

117. Which of the following factors can negatively impact index performance?

- A) Frequent updates and deletions
- B) Use of SELECT queries
- C) Low data volume
- D) Use of WHERE clauses

118. How does denormalization affect transaction processing?

- A) It speeds up read transactions but may slow down writes.
- B) It speeds up write transactions but may slow down reads.
- C) It slows down both read and write transactions.
- D) It has no impact on transaction processing.

119. Which of the following queries benefits the most from a full-text index?

A) SELECT * FROM employees WHERE name LIKE '%John%'

- B) SELECT * FROM employees WHERE age = 30
- C) SELECT * FROM employees WHERE department = 'HR'
- D) SELECT * FROM employees WHERE salary > 50000

120. What is the primary goal of database optimization?	
.) Improve query performance	
) Increase data redundancy	
Reduce storage space	
) Normalize data	
121. Which of the following techniques can help optimize database performance?	
) Indexing	
) Denormalization	
Partitioning	
All of the above	
122. How does normalization help with database optimization?	
) Reduces data redundancy	
) Increases data redundancy	
) Slows down data retrieval	
) Increases storage requirements	
123. Which tool can be used to analyze and optimize SQL queries?	
) SQL Profiler	
) Visual Studio	
) Data Flow Diagram	
) MS Word	
124. What role does partitioning play in database optimization?	
) Divides large tables into smaller, more manageable parts	
) Combines small tables into one large table	
) Duplicates all data	
) Deletes unwanted data	
125. What is the function of a query execution plan?	

C) Creates backup tables

B) Deletes duplicate records

D) Converts all queries to views

A) Shows the steps the database takes to execute a query