

<b>Started on</b>	Wednesday, 6 August 2025, 4:03 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 6 August 2025, 4:07 PM
<b>Time taken</b>	4 mins 16 secs
<b>Marks</b>	14.00/20.00
<b>Grade</b>	<b>70.00</b> out of 100.00

**Question 1**

Complete

Mark 0.00 out of 1.00

A table without a primary key can still have which of the following?

- ☐ a. Candidate key
- ☐ b. Referential integrity
- ☒ c. Clustered index
- ☐ d. Composite key

**Question 2**

Complete

Mark 0.00 out of 1.00

In relational algebra, which operation is not considered a basic operation?

- ☒ a. Selection
- ☐ b. Join
- ☐ c. Difference
- ☐ d. Union

**Question 3**

Complete

Mark 1.00 out of 1.00

What does the ACID property 'Consistency' ensure?

- ☐ a. The data is normalized
- ☒ b. Database moves from one valid state to another
- ☐ c. Transactions are executed in isolation
- ☐ d. Only one user can access the data

**Question 4**

Complete

Mark 1.00 out of 1.00

What will be the result of a division operation in relational algebra?

- ☐ a. Join of attributes
- ☒ b. Tuples in one relation matching all tuples in another
- ☐ c. Intersection of tuples
- ☐ d. Cartesian product

**Question 5**

Complete

Mark 1.00 out of 1.00

Which command is used to remove all rows from a table without logging individual row deletions?

- ☒ a. TRUNCATE
- ☐ b. DROP
- ☐ c. DELETE
- ☐ d. REMOVE

**Question 6**

Complete

Mark 1.00 out of 1.00

Which constraint ensures that a column must have a value?

- ☐ a. FOREIGN KEY
- ☐ b. UNIQUE
- ☐ c. PRIMARY KEY
- ☒ d. NOT NULL

**Question 7**

Complete

Mark 1.00 out of 1.00

Which file contains actual records in a heap-organized table?

- ☒ a. Data file
- ☐ b. Index file
- ☐ c. Data dictionary
- ☐ d. Log file

**Question 8**

Complete

Mark 0.00 out of 1.00

Which index type stores a sorted list of values and pointers to rows?

- ☐ a. Full-text Index
- ☒ b. Spatial Index
- ☐ c. Hash Index
- ☐ d. Clustered Index

**Question 9**

Complete

Mark 1.00 out of 1.00

Which isolation level allows non-repeatable reads but prevents dirty reads?

- ☐ a. Read Uncommitted
- ☒ b. Read Committed
- ☐ c. Serializable
- ☐ d. Repeatable Read

**Question 10**

Complete

Mark 1.00 out of 1.00

Which JOIN returns all rows from the left table and matched rows from the right?

- ☐ a. INNER JOIN
- ☒ b. LEFT JOIN
- ☐ c. RIGHT JOIN
- ☐ d. CROSS JOIN

**Question 11**

Complete

Mark 1.00 out of 1.00

Which keyword is used to prevent duplicate rows in SQL SELECT results?

- ☒ a. DISTINCT
- ☐ b. FILTER
- ☐ c. UNIQUE
- ☐ d. ONLY

**Question 12**

Complete

Mark 0.00 out of 1.00

Which of the following can cause a phantom read?

- ☐ a. Dirty read
- ☒ b. Non-repeatable read
- ☐ c. Row-level locking
- ☐ d. Insert by another transaction during a range scan

**Question 13**

Complete

Mark 1.00 out of 1.00

Which of the following ensures atomicity in a DBMS transaction?

- ☐ a. Foreign Key
- ☐ b. Primary Key
- ☐ c. Check Constraint
- ☒ d. Commit and Rollback

**Question 14**

Complete

Mark 1.00 out of 1.00

Which of the following is not allowed in a view?

- ☐ a. WHERE clause
- ☐ b. SELECT from multiple tables
- ☐ c. Aggregations
- ☒ d. INSERT with default values

**Question 15**

Complete

Mark 1.00 out of 1.00

Which of the following is true about a clustered index?

- ☐ a. Does not define the physical order
- ☐ b. Can be created only on primary keys
- ☐ c. Can exist multiple times per table
- ☒ d. Defines the order in which data is physically stored

**Question 16**

Complete

Mark 1.00 out of 1.00

Which of the following normal forms eliminates transitive dependency?

- ☐ a. BCNF
- ☐ b. 2NF
- ☒ c. 3NF
- ☐ d. 1NF

**Question 17**

Complete

Mark 0.00 out of 1.00

Which of the following operations may violate referential integrity?

- ☐ a. UPDATE
- ☒ b. INSERT
- ☐ c. SELECT
- ☐ d. RENAME

**Question 18**

Complete

Mark 0.00 out of 1.00

Which of the following schedules is always serializable?

- ☐ a. Conflict serializable
- ☐ b. Non-recoverable schedule
- ☒ c. View serializable but not conflict serializable
- ☐ d. Cascading rollback schedule

**Question 19**

Complete

Mark 1.00 out of 1.00

Which SQL clause is evaluated first in a SELECT query?

- ☒ a. FROM
- ☐ b. WHERE
- ☐ c. GROUP BY
- ☐ d. SELECT

**Question 20**

Complete

Mark 1.00 out of 1.00

Which SQL keyword is used to extract only those records that satisfy a specified condition?

- ☐ a. HAVING
- ☐ b. FROM
- ☐ c. SELECT
- ☒ d. WHERE