

Started on	Tuesday, 2 December 2025, 12:03 PM
State	Finished
Completed on	Tuesday, 2 December 2025, 12:10 PM
Time taken	7 mins 38 secs
Marks	16.00/20.00
Grade	80.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

In an E–R diagram, which of the following is a defining property of a weak entity type?

- ☒ a. It always has total participation in its identifying relationship
- ☐ b. It can exist without any identifying owner entity
- ☐ c. It has a composite attribute
- ☐ d. It has a multivalued attribute

Question 2

Complete

Mark 1.00 out of 1.00

In an E–R model, “Employee manages Employee” is represented as:

- ☒ a. Recursive (unary) relationship
- ☐ b. Weak entity
- ☐ c. Specialization
- ☐ d. Ternary relationship

Question 3

Complete

Mark 1.00 out of 1.00

In E–R modeling, specialization of an entity type primarily increases:

- ☐ a. The number of weak entities
- ☒ b. Specificity of entity types
- ☐ c. The physical storage size
- ☐ d. Generalization

Question 4

Complete

Mark 1.00 out of 1.00

In E-R modeling, the relationship between an entity and its multivalued attribute can be viewed conceptually as:

- ☐ a. M:N
- ☒ b. 1:N
- ☐ c. 1:1
- ☐ d. Undefined

Question 5

Complete

Mark 1.00 out of 1.00

In MySQL, what does this return: `SELECT 'abc' LIKE 'a_c';`

- ☐ a. 0
- ☐ b. NULL
- ☒ c. 1
- ☐ d. Error

Question 6

Complete

Mark 1.00 out of 1.00

Removing a column from an existing table requires:

- ☒ a. DDL
- ☐ b. DML
- ☐ c. DCL
- ☐ d. TCL

Question 7

Complete

Mark 1.00 out of 1.00

What does this return: `SELECT DATEDIFF('2024-03-01', '2024-02-28');`

- ☐ a. 1
- ☐ b. 3
- ☐ c. Depends on leap year rules
- ☒ d. 2

Question 8

Complete

Mark 1.00 out of 1.00

What does this return: `SELECT REGEXP_LIKE('abc123','^[a-z]+[0-9]{3}$');`

- ☒ a. 1
- ☐ b. Error
- ☐ c. NULL
- ☐ d. 0

Question 9

Complete

Mark 1.00 out of 1.00

What does this return: `SELECT REGEXP_LIKE('file123.txt','^[a-z]+[0-9]+\txt$');`

- ☐ a. NULL
- ☐ b. 0
- ☐ c. Error
- ☒ d. 1

Question 10

Complete

Mark 0.00 out of 1.00

What is the result of: `SELECT MONTHNAME('2024-13-10');`

- ☐ a. NULL
- ☐ b. 'December'
- ☐ c. 'January'
- ☒ d. Error

Question 11

Complete

Mark 0.00 out of 1.00

What will this return in MySQL (assuming default behavior): `SELECT DAY('2025-02-29');`

- ☐ a. 1
- ☐ b. Error
- ☐ c. NULL
- ☒ d. 29

Question 12

Complete

Mark 1.00 out of 1.00

Which command removes all rows from a table most efficiently and resets its AUTO_INCREMENT counter, while preserving the table structure?

- ☒ a. TRUNCATE TABLE table_name;
- ☐ b. CLEAR TABLE table_name;
- ☐ c. DELETE FROM table_name;
- ☐ d. DROP TABLE table_name;

Question 13

Complete

Mark 1.00 out of 1.00

Which DCL command removes privileges that have already been granted to a user?

- ☐ a. REMOVE PRIVILEGE
- ☐ b. DROP USER
- ☐ c. DENY
- ☒ d. REVOKE

Question 14

Complete

Mark 0.00 out of 1.00

Which DDL command implicitly commits before and after execution in MySQL?

- ☐ a. DROP TABLE
- ☐ b. All of the above
- ☐ c. TRUNCATE TABLE
- ☒ d. CREATE TABLE

Question 15

Complete

Mark 1.00 out of 1.00

Which E-R concept allows an attribute like Address to contain Street, City and Pin?

- ☐ a. Discriminator attribute
- ☐ b. Multivalued attribute
- ☒ c. Composite attribute
- ☐ d. Derived attribute

Question 16

Complete

Mark 1.00 out of 1.00

Which MySQL REGEXP pattern matches strings containing only uppercase English letters (and at least one letter)?

- ☐ a. '[A-Z]*'
- ☐ b. '^ [A-Z]\$'
- ☒ c. '^ [A-Z]+\$'
- ☐ d. 'A-Z+'

Question 17

Complete

Mark 1.00 out of 1.00

Which of the following is TRUE about TRUNCATE TABLE in MySQL (InnoDB)?

- ☐ a. It preserves the current AUTO_INCREMENT value
- ☐ b. It fires ON DELETE triggers
- ☒ c. It is non-transactional (cannot be rolled back once executed)
- ☐ d. It deletes row-by-row

Question 18

Complete

Mark 0.00 out of 1.00

Which of the following MySQL REGEXP patterns matches strings that start with 'ab' and end with a digit (with any characters in between)?

- ☒ a. '^ab[0-9]\$'
- ☐ b. 'ab.*[0-9]\$'
- ☐ c. '^ab.*[0-9]\$'
- ☐ d. '^ab[0-9].*\$'

Question 19

Complete

Mark 1.00 out of 1.00

Which statement is TRUE about COMMIT in MySQL?

- ☐ a. It resets AUTO_INCREMENT values
- ☐ b. It applies only on SELECT statements
- ☐ c. It reverses all pending changes in the current transaction
- ☒ d. It makes all changes in the current transaction permanent

Question 20

Complete

Mark 1.00 out of 1.00

Which TCL command combination allows undoing only a part of a transaction?

- ☐ a. ROLLBACK
- ☒ b. SAVEPOINT with ROLLBACK TO
- ☐ c. BEGIN TRANSACTION
- ☐ d. COMMIT