CS403 (Live Quiz0

Mid Term

PAID VU LMS HANDLING by Mam Mehwish 03184148783

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1. **In natural join the common attribute in the output table appears:**
   - ✗ Twice
   - ☑ Once
   - ✗ Three times
2. **In your opinion, why relational database is widely acceptable?**
   - ✗ Due to its complexity
   - ✗ Due to its approach
   - ☑ Due to its strength
   - ✗ Due to its dependencies
3. **Suppose we have two entities department and University. Which type of dependency exists between these two entities?**
   - ✗ Identifier
   - ✗ Existence
   - ☑ Referential
4. **Suppose a relation has five columns and ten rows, select the correct option to identify the degree of relation.**
   - ✗ Ten
   - ✗ Twenty
   - ☑ Five
5. **In Relational Data model, the values of the attributes come from the:**

- ✅ Universal
- ❌ Heterogeneous
- ❌ Unique
- ❌ Same

6. **The _____ determines that the link between two entities is optional or mandatory.**
   - ❌ Maximum degree
   - ❌ Maximum cardinality
   - ✅ Minimum cardinality
   - ❌ Minimum degree
7. **RDM is simple, there is just one structure and that is:**
   - ❌ Data model
   - ✅ A relation or a table
   - ❌ Attributes
   - ❌ E-R model
8. **A____ entity has a primary key that is partially or totally derived from the parent entity in the relationship.**
   - ❌ Business
   - ✅ Weak
   - ❌ Relationship
9. **Binary relationships are those, which are established between:**
   - ❌ One entity type
   - ❌ Three entity type
   - ✅ Two entity type
   - ❌ Unlimited entities
10. **Which of the following is true regarding foreign keys?**
    - ❌ Each table in database must have a foreign key
    - ✅ Foreign key is not a super key
    - ❌ There can only be one foreign key in a relation

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- ✕ There can be as many foreign keys as needed

1. Consider an employee is allotted an organization vehicle, which might solely be driven by that employee. What kind of relationship exists between employee and company?

- Many-to-many
- One-to-one ✓
- One-to-many
- Many-to-one

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2. Which of the following tool is used to design conceptual database design?

- Oracle
- SQL
- This model is independent of any tool ✓
- MS Access

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3. An example of ---------- relationship can be seen between project and employee because an employee can work on several projects and at the same time, a project has several employees.

- One-to-many
- Many-to-many ✓
- One-to-one
- Many-to-one

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4. Suppose a relation has five columns and ten rows, select the correct option to identify the degree of relation.

- Fifteen
- Ten
- Twenty
- Five ✓

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5. What do you mean by one to many relationship between "Teacher" and "Class" table?

- Many Teachers may have many Classes
- One Teacher can have many Classes ✓
- One Class may have many Teachers
- Many Classes may have many Teachers

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6. Unary relationship involve a single entity it is also called

- One to one relationship
- One to many relationship
- Recursive relationship ✓
- Many to many relationship

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7. A vehicle can be a Car or a Bus but do not have to be either. It is an example of _____ constraint.

- Referential integrity
- Partial completeness ✓
- Total completeness
- Disjointness rule

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8. The Select operation works horizontally on the table, on the other hand the _____ operates on a single table vertically.

- Select Operator
- Project operator ✓
- Binary operator
- Join operation

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9. Which of the following is a true statement?

- The super type entity contains the attributes of the sub type entity. ✓
- The super type entity and sub type entity are same.
- The sub type entity does not contain the attributes of the super type entity.

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- The sub type entity contains the attributes of the super type entity.

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10. The attribute EXPERIENCE is calculated from DATE_OF_JOINING attribute. The EXPERIENCE is a _____ attribute.

- Derived ✓
- Stored
- Multi-valued
- Composite

1. Which of the following is the second stage in the Database Development Process?

Options:

A) Requirement Analysis

B) Database Design

C) Preliminary Study

D) Physical Design

Correct Option: B) Database Design

2. An attribute that is the collection of some other attribute(s) is known as _____ attribute.

Options:

A) Single-valued

B) Composite

C) Multi-valued

D) No-valued

Correct Option: B) Composite

3. From the following database users, who have clear idea of the structure of the database and know all the needs of an organization?

Options:

A) Sophisticated users

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B) Application programmers

C) End users

D) Naive users

Correct Option: A) Sophisticated users

4. An example of ---------- relationship can be seen between project and employee because an employee can work on several projects and at the same time, a project has several employees.

Options:

A) One-to-many

B) Many-to-many

C) Many-to-one

D) One-to-one

Correct Option: B) Many-to-many

5. Which of the following is not a part of the Database Application Development Process?

Options:

A) Application Programs

B) Database Design

C) Validation

D) Implementation

Correct Option: C) Validation

6. From the following, who is responsible for proper working of the database and DBMS?

Options:

A) Database designer

B) Admin of the application

C) Sophisticated user

D) Database administrator

Correct Option: D) Database administrator

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7. In Database development process, which phase involves designing of any new application for the enhancement of the system?

Options:

A) Implementation phase

B) Testing phase

C) Maintenance phase

D) Analysis phase

Correct Option: A) Implementation phase

8. Collection of raw facts is called____.

Options:

A) Data

B) Object

C) Output

D) Information

Correct Option: A) Data

9. If we make changes in the extension of database, it will affect _____.

Options:

A) Multiple records

B) Multiple fields

C) All stored records

D) A single record

Correct Option: C) All stored records

10. In an ERD, the focus is on the ____ and the relationships between them.

Options:

A) Indexes

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B) Entities

C) Keys

D) Attributes

Correct Option: B) Entities

1. Major benefit of data sharing is _____.

- Data of different applications stored at placed place
- Data of same applications placed at same place
- Data of same applications placed at different places
- Data of different application placed at same place
- Correct option: Data of same applications placed at same place

2. A mapping is one to one if each entity in X is associated with at most _____ entity in Y and vice versa.

- 1
- 2
- 3
- 4
- Correct option: 1

3. A ____ entity has a primary key that is partially or totally derived from the parent entity in the relationship.

- Business
- Weak
- Relationship
- Strong
- Correct option: Weak

4. In three level architecture of the database, which level is helpful to display data which is not actually placed in the database?

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- Physical level
- External level
- Internal level
- Conceptual level
- Correct option: External level

5. If there is more than one relationship between two entities and we mentioned role on the relationship link, then it is called:

- Ternary relationships
- Multiple relationships
- Unary relationship
- Binary relationships
- Correct option: Binary relationships

6. A collection of concepts that can be used to describe the structure of a database is called _____.

- Data model
- Data
- DBMS
- Database
- Correct option: Data model

7. Which of the following is NOT a Key?

- Super key
- Integrity constraint key
- Alternate key
- Primary key
- Correct option: Integrity constraint key

8. Which of the following is NOT the classification of entity type?

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- Dependent entity type
- Weak entity type
- Strong entity type
- Derived entity type
- Correct option: Derived entity type

9. The total participation by entities is represented in E-R diagram as
- Dashed line
- Circle
- Double rectangle
- Double line
- Correct option: Double line

10. Which of the following is incorrect about attributes?
- Name and the domain, are part of an attribute.
- One entity type cannot have two attributes with same name.
- Different entity types may have attributes with the same name.
- One entity type may have two attributes with same name.
- Correct option: Different entity types may have attributes with the same name.

1. In Database System the description and definition of data is stored in_____.
- A) Any Drive
- B) Schema
- C) Google Drive
- D) Hard disk
- **Correct option:** B) Schema

2. The Three levels architecture is useful for _____.
- A) Arranging the data in an organized manner.

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- B) Hiding the details of internal systems.
- C) Storing definitions of the structures.
- D) Breaking the data access restriction.
- **Correct option:** B) Hiding the details of internal systems.

3. A relationship that involves three entities called _____.
- A) N-ary relationship
- B) Ternary relationship
- C) Binary relationship
- D) Unary relationship
- **Correct option:** B) Ternary relationship

4. The _____ can see entire information structure of the database.
- A) DBA
- B) External viewer
- C) DBTG
- D) Database user
- **Correct option:** A) DBA

5. The population of the data of the organization for which the database is created is called the _____ of the Database.
- A) Model
- B) Intention
- C) Extension
- D) Schema
- **Correct option:** C) Extension

6. A vehicle can be a Car or a Bus but do not have to be either. It is an example of ---------- constraint.

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- A) Disjointness rule
- B) Total completeness
- C) Referential integrity
- D) Partial completeness
- **Correct option:** D) Partial completeness

7. The process of defining one or more subtypes of a super type and forming relationships is known as

- A) Aggregation
- B) Generalization
- C) Specialization
- D) Selecting classes
- **Correct option:** B) Generalization

8. If there is more than one relationship between two entities and we mentioned role on the relationship link, then it is called:

- A) Multiple relationships
- B) Binary relationships
- C) Ternary relationships
- D) Unary relationship
- **Correct option:** A) Multiple relationships

9. The entity that is NOT dependent on any other entity for its existence is known as _____ entity.

- A) Weak
- B) Strong
- C) Derived
- D) Dependent
- **Correct option:** B) Strong

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1. _____ is the first computer-based approach for handling the commercial or business applications.

Options:

- Database system
- Record base system
- File processing system
- Scientific systems

Correct option: Database system

2. Which type of Data flow diagram (DFD) explains the functionality of the processes?

Options:

- Level “Not” diagram
- Context level diagram
- Level 0 diagram
- Detailed diagram

Correct option: Level 0 diagram

3. The Physical layer is used for data storage on disk and it is the responsibility of the _____.

Options:

- Operating system
- Database management system
- Database administrator
- Application software

Correct option: Database management system

4. Which of the following is the correct abbreviation of ERD?

Options:

- Entity real distance
- Entity relationship diagram

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- Entity relation diagram

- Entity reality diagram

Correct option: Entity relationship diagram

5. When data stored onto a magnetic media, it is stored in_____.

Options:

- Numeric form

- Text format

- Binary format

- Encrypted form

Correct option: Binary format

6. Within a table, each primary key value ____

Options:

- is a minimal superkey

- must be numeric

- must be unique

- is always the first field in each table

Correct option: must be unique

7. The attribute whose value is not stored in a database is known as _____ attribute.

Options:

- Multi value

- Stored

- Single value

- Derived

Correct option: Derived

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8. In data flow diagram which of the following operator is used, when data flows from a source process to one of the mentioned sinks?

Options:

- And operator

- Ring sum operator

- Separator

- Collector

Correct option: Separator

9. In Cross Reference Matrix attributes are specified on _____.

Options:

- Both axes

- X and Y axes

- File server

- Single user

Correct option: X and Y axes

10. In Cross Reference Matrix attributes are specified on _____.

Options:

- File server

- Single user

- Client server

- Teleprocessing

Correct option: File server

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