

**PAID VU LMS HANDLING by Mam Mehwish**

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**CS403P**

**Database Management Systems (Practical)**

**Mid Term (Live Quiz)**

- 1. A specific record of a relation is accessed through:**
  - Arbitrary Key
  - Primary Key
  - Secondary Key
  - Random key
- 2. In enhanced Entity Relationship Diagram, which of the following is known as specialized type?**
  - Sub type
  - Super type
  - Weak entity type
  - Strong entity type
- 3. A manufacturer manufactures 100 motor bikes in a month. The relationship between manufacturer and motor bikes is:**
  - One to many
  - One to one
  - Many to many
  - Recursive relationship
- 4. In many to many relationship, a third table is created for the relationship. It is known as:**
  - Naming entity type
  - Associative entity type

- Regular entity type
  - Strong entity type
5. **Column of the table in the relational database are identified by:**
- Value
  - Key
  - Serial number
6. **Consider the following two sets:**
- $X = [a,b]$
  - $Y = \{13,5\}$
  - Then the Cartesian product of A and B (i.e.  $X \times Y$ ) will be equal to:
    - $\{(a, a), (a3), (a1), (6,5), (65), (b3)\}$
    - $\{(a1), (a3), (a5), (b1), (63), (b.5)\}$
    - $\{(a), (2), (a5), (63), (a5), (b5)\}$
    - $\{(a, 13), (a, 5), (b, 13), (b, 5)\}$
7. **If you want to add some common attributes in all subtype relationships, then you add it from \_\_\_\_\_.**
- Super type
  - Sub type
  - Package
  - Object
8. **A cell of a table is the intersection of row and a:**
- Column
  - Degree
  - Tuple
9. **Which of the two data models were used before the relational data model?**
- Object Oriented and Flat Data Model
  - Network and Object Oriented Data Model
  - Flat Data model and Hierarchical Data Model
  - Hierarchical and Network Data Model

10. Generalization and specialization are associations between different:

- Rows of table
- Columns of table
- Entity types
- Databases

1. In relational database, each cell of a table cannot have:

- Multiple values
- Unique values
- String values
- Numeric values

2. In enhanced Entity Relationship Diagram, which of the following is known as generalized type?

- Naming entity type
- Weak entity type
- Super type

3. In the first semester of a degree program in a university, each student has to study five pre-selected courses. The relationship between student and course is:

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

4. In a table, column represents:

- Attributes
- Records
- Data

- Instances
- 

5. A specific record of a relation is accessed through:

- Random key
  - Secondary Key
  - Arbitrary Key
  - Primary Key
- 

6. Consider the following two sets:  $X = [ab]$ ,  $Y = \{135\}$ . Then the Cartesian product of A and B (i.e.  $X \times Y$ ) will be equal to:

- $\{(a), (b1), (a5), (b3), (a5), (b5)\}$
  - $\{(a1), (a3), (a5), (b2), (a3), (b5)\}$
  - $\{(a1), (a3), (b1), (b3)\}$
  - $\{(a1), (a5), (b3), (b5), (a3), (b5)\}$
- 

7. If a teacher teaches multiple courses in a university then the relationship between teacher and course is:

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

8. A cell of a table is the intersection of row and a \_\_\_\_\_

- Column
  - Record
  - Tuple
  - Degree
-

9. In many to many relationship, a third table is created for the relationship. It is known as:

- Associative entity type
- Regular entity type
- Naming entity type
- Strong entity type

10. Table is a \_\_\_\_\_ representation of a relation.

- Six Dimensional
- Four Dimensional
- Two Dimensional
- Three Dimensional

1. In a university, each student can avail a single scholarship. The relationship between student and scholarship is:

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

2. Consider the following two sets:

- $X = [a, b]$
- $Y = \{1, 3, 5\}$
- Then the Cartesian product of A and B (i.e.  $X \times Y$ ) will be equal to:
- $\{(a1), (a3), (a5), (b1), (6,3), (b,5)\}$
- $\{(a), (a3), (a1), (6,5), (65), (b3)\}$
- $\{(a), (2), (a5), (63), (a5), (b5)\}$
- $\{(a, 13), (a, 5), (b, 13), (b, 5)\}$

3. In relational database, each cell of a table cannot have:

- Multiple values

- Unique values
  - String values
  - Numeric values
4. **Representation of a relation:**
- Two Dimensional
  - Four Dimensional
  - Three Dimensional
  - Six Dimensional
5. **In enhanced Entity Relationship Diagram, \_\_\_\_\_ type of attributes are shown in super type.**
- Nominal attributes
  - Common attributes
  - Specialized attributes
  - Both common and specialized attributes
6. **In enhanced Entity Relationship Diagram, which of the following is known as generalized type?**
- Sub type
  - Naming entity type
  - Weak entity type
7. **If you want to add some common attributes in all subtype relationships, then you add it from:**
- Package
  - Sub type
  - Object
8. **In relational data model, composite attributes need to be represented as:**
- Entity type
  - Separate relation
  - Recursive relationship
  - Objects

9. If a teacher teaches multiple courses in a university then the relationship between teacher and course is:

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

10. A manufacturer manufactures 100 motor bikes in a month. The relationship between manufacturer and motor bikes is:

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

1. Column of the table in the relational database are identified by:

- key ✓
- Serial number
- Value

2. Table is a \_ representation of a relation:

- Six Dimensional
- Two Dimensional ✓
- Three Dimensional
- Four Dimensional

3. What is the basic component/structure of Relational Data Model?

- Tuple
- Relation ✓
- Schema

4. Which of the two data models were used before the relational data model?

- Object Oriented and Flat Data Model
- Flat Data model and Hierarchical Data Model

- Network and Object Oriented Data Model
- Hierarchical and Network Data Model ✓

1. Rows of the table in the relational database are identified by:

- Serial number
- Row name
- **Key values** ✓
- Header

2. What is the basic component/structure of the Relational Data Model?

- Schema
- **Relation** ✓
- Model

3. A cell of a table is the intersection of row and a:

- Record
- **Column** ✓
- Degree
- Tuple

4. Consider the following two sets:

- STD Name = [Ali, Hassan]
- Course Name = {Eng, Math, Phy}

Then the Cartesian product of STD Name and Course Name (i.e., STD Name x Course Name) will be equal to:

- {(Ali, Math), (Ali, Phy), (Hassan, Phy), (Hassan, Eng), (Hassan, Math), (Hassan, Phy)}
- {(Ali, Eng), (Ali, Math), (Ali, Phy), (Hassan, Phy), (Ali, Math), (Hassan, Eng)}
- **{(Ali, Eng), (Ali, Math), (Ali, Phy), (Hassan, Eng), (Hassan, Math), (Hassan, Phy)}** ✓
- {(Ali, Eng), (Hassan, Math), (Ali, Phy), (Hassan, Eng), (Hassan, Math), (Hassan, Phy)}

5. Column of the table in the relational database are identified by:

- Value
- Key
- Serial number
- Name

1. Table is a representation of a relation. Select the correct option

- Four Dimensional
- Six Dimensional
- Three Dimensional
- Two Dimensional

2. Consider the following two sets:  $X = [ab]$ ,  $Y = \{135\}$ . Then the Cartesian product of X and Y (i.e.,  $X \times Y$ ) will be equal to:

- $\{(a1), (a), (a5), (2), (63), (b5)\}$
- $\{(a1), (a5), (a), (65), (b1), (b5)\}$
- $\{(a, a), (a3), (a), (b5), (b5), (b3)\}$
- $\{(a1), (a5), (b1), (b5)\}$

3. In relational database, each cell of a table cannot have:

- Multiple values
- Unique values
- Numeric values
- String values

4. Consider the following two sets:  $STD\ Name = [Ali, Hassan]$ ,  $Course\ Name = \{Eng, Math, Phy\}$ . Then the Cartesian product of STD Name and Course Name (i.e.,  $STD\ Name \times Course\ Name$ ) will be equal to:

- $\{(Ali, Math), (Ali, Phy), (Hassan, Phy), (Hassan, Eng), (Hassan, Math), (Hassan, Phy)\}$
- $\{(Ali, Eng), (Ali, Math), (Ali, Phy), (Hassan, Phy), (Ali, Math), (Hassan, Eng)\}$
- $\{(Ali, Eng), (Ali, Math), (Ali, Phy), (Hassan, Eng), (Hassan, Math), (Hassan, Phy)\}$

- {(Ali, Eng), (Hassan, Math), (Ali, Phy), (Hassan, Eng), (Hassan, Math), (Hassan, Phy)}

5. Rows of the table in the relational database are identified by \_\_\_\_\_.

- Serial number
- Header
- Key values

1. Microsoft SQL server is a

- Hybrid
- Hierarchical
- Network
- **Relational ✓**

2. Which of the following is the main user interface of Microsoft SQL server?

- **Graphical User Interface ✓**
- Voice-activated interface
- Modular Interface
- Gesture-based Interface

3. How many users can access data stored in a database using SQL server?

- Only one user at a time
- Exactly 50 users
- Maximum 10 users
- **Many users concurrently ✓**

4. The basic purpose of Microsoft SQL server is \_\_\_\_\_.

- To represent data in graphical form
- To design web pages
- **To store and retrieve data from database ✓**

- To fetch the data from Internet links

---

5. A person who is responsible for proper working of database and DBMS is known as

- **Database Administrator** ✓
- Application Programmer
- End User
- Analyst

1. In enhanced Entity Relationship Diagram, type of attributes are shown in super type.

- Both common and specialized attributes
- Nominal attributes
- **Common attributes** ✓
- Specialized attributes

2. In enhanced Entity Relationship Diagram, which of the following is known as generalized type?

- **Super type** ✓
- Naming entity type
- Sub type
- Weak entity type

3. Generalization and specialization are associations between different

- Databases
- Rows of table
- Columns of table
- **Entity types** ✓

4. If you want to add some common attributes in all subtype relationships, then you add it from

- \_\_\_\_\_.
- Sub type
  - Package
  - **Super type** ✓

- Object
5. Super type/sub type are \_\_\_\_\_ between entities.

- Instances
- Groups
- Interactions
- Relationships

1. In enhanced Entity Relationship Diagram, \_\_\_\_\_ type of attributes are shown in super type.

- Nominal attributes
- Both common and specialized attributes
- Common attributes
- Specialized attributes

2. In enhanced Entity Relationship Diagram, which of the following is known as specialized type?

- Sub type
- Weak entity type
- Super type
- Strong entity type

3. Generalization and specialization are associations between different:

- Columns of table
- Rows of table
- Databases
- Entity types

4. If you want to add some common attributes in all subtype relationships, then you add it from \_\_\_\_\_.

- Super type
- Object
- Package
- Sub type

5. In enhanced Entity Relationship Diagram, which of the following is known as generalized type?

- Naming entity type
- Sub type
- Weak entity type
- Super type

1. In Enhanced Entity Relationship Diagram, which of the following is known as specialized type?

- Strong entity type
- Super type
- Weak entity type

---

2. In Enhanced Entity Relationship Diagram, \_\_\_\_\_ type of attributes are shown in super type.

- Both common and specialized attributes
- Specialized attributes
- Nominal attributes
- Common attributes

---

3. The transfer of characteristics of super type to sub types is known as \_\_\_\_\_.

- Inheritance
- Dependency
- Encapsulation
- Abstraction

2. What does an oval or rounded rectangle represent in Data Flow Diagram?

- Data Store
- O
- Entity

- System Component
- Processes

🔍 A person who is responsible for proper working of database and DBMS is known as \_\_\_\_\_ .

- Database Administrator
- End User
- Application Programmer

🔍 A type of Data Flow Diagram which provides minimal amount of details about the working of system is known as

- Level 2 diagram
- Level I diagram
- Level 3 diagram
- Context diagram

🔍 Context Level Data Flow Diagram shows \_\_\_\_\_ .

- Detailed working of the system.
- Input/Output to and from the process and interaction with external entities
- Data Store only
- External entities only

🔍 \_\_\_\_\_ represents characteristics of an object.

- Modality
- Cardinality
- Attribute

🔍 The first step of creating level 0 Data Flow Diagram is to

- Identify prominent modules of system
- Establish link between different entities
- Create a Data Store
- Represent interaction between external entities

🔍 Which of the following statement is true about Entity Set?

- A group of instances of particular attributes
- A group of attributes of a particular entity type

- A group of relationship between different entities
- A group of entity instances of a particular entity type

☐ According to the definition of an entity, which of the following is NOT included in it?

- Action
- Object
- Concept
- Person

☐ A graphical representation of system showing flow of data between its different components is known as

- Pie Chart
- Gantt Chart
- Hierarchy Charts
- Data Flow Diagram

☐ In a Data Flow Diagram, \_\_\_\_\_ symbol is used to express the convergence of several data flow connections to a single point.

- Diamond
- Merger
- Collector
- Oval

1. The basic purpose of Microsoft SQL server is \_\_\_\_\_.

- To fetch the data from Internet links
- To design web pages
- To represent data in graphical form
- To store and retrieve data from database

---

2. SQL server is a \_\_\_\_\_.

- Operating system
- Application program

- Database
  - DBMS
- 

**3. In Entity Relationship Data Model, which of the following symbol is used to represent Entity Type?**

- Parallelogram
  - Oval
  - Rectangle
  - Diamond
- 

**4. A person who is responsible for proper working of database and DBMS is known as**

- Database Administrator
  - End User
  - Analyst
  - Application Programmer
- 

**5. How many users can access data stored in a database using SQL server?**

- Many users concurrently
  - Exactly 50 users
  - Only one user at a time
  - Maximum 10 users
- 

**6. A graphical representation of a system showing flow of data between its different components is known as \_\_.**

- Hierarchy Charts
  - Pie Chart
  - Gantt Chart
  - Data Flow Diagram
-

7. Which of the following company develops SQL server software?

- Microsoft
  - Oracle
  - HP
  - Acer
- 

8. A type of Data Flow Diagram which provides minimal amount of details about the working of system is known as \_\_\_\_\_.

- Level 2 diagram
  - Level 1 diagram
  - Context diagram
  - Level 3 diagram
- 

9. In an Entity Relationship diagram, a rectangle represents \_\_\_\_\_.

- Relationship
  - Identifier
  - Attributes
  - Entities
- 

10. \_\_\_\_\_ represents characteristics of an object.

- Modality
- Relationship
- Cardinality
- Attribute

? Arrow symbol in Data Flow Diagram represents

- Decision making
- Flow of data ✓
- System components

❑ In SQL server, data is stored in database in the form of

- Objects
- Tables ✓
- Files
- Images

❑ Relationships between two entities in the Entity Relationship Data Model are represented by

- Line
- Oval symbol
- Diamond symbol ✓
- Rectangular box

❑ \_\_\_\_\_ represents characteristics of an object.

- Attribute ✓
- Modality
- Relationship
- Cardinality

❑ In an Entity Relationship diagram, a rectangle represents \_

- Attributes
- Entities ✓
- Identifier
- Relationship

❑ The process of identifying entity types, their properties and relationships between them is known as \_\_\_\_\_.

- Descriptor
- Cardinality
- Phrase
- Abstraction ✓

❑ Application program, Operating system, DatabaseSQL server is a \_\_\_\_\_.

- Software ✓

❑ A type of Data Flow Diagram which provides minimal amount of details about the working of system is known as

- Level 3 diagram
- Level 2 diagram
- Context diagram ✓
- Level 1 diagram

❑ The instances of \_\_\_\_\_ cannot exist independently?

- Strong Entity
- Hybrid Entity
- Weak Entity ✓
- Naming Entity

❑ According to the definition of an entity, which of the following is NOT included in it?

- Concept ✓
- Object
- Person

The process of identifying entity types, their properties and relationships between them is known as:

- O Cardinality
- O Abstraction ✓
- O Phrase
- O Descriptor

2. Which of the following is used to represent an association between different entities?

- O Attribute
- O Identifier
- O Entity
- O Relationship ✓

3. Which of the following statement is true about Entity Set?

- O A group of attributes of a particular entity type

- O A group of relationship between different entities
- O A group of instances of particular attributes
- O A group of entity instances of a particular entity type

4. In Entity Relationship Data Model, which of the following symbol is used to represent Entity Type?

- O Oval
- O Rectangle
- O Parallelogram
- O Diamond

5. The instances of \_\_\_\_\_ cannot exist independently?

- O Naming Entity
- O Hybrid Entity
- O Strong Entity
- O Weak Entity

1. Relationships between two entities in the Entity Relationship Data Model are represented by \_\_

- Rectangular box
- Oval symbol
- Line
- Diamond symbol

2. Represents characteristics of an object.

- Modality
- Relationship
- Attribute
- Cardinality

3. Which of the following is used to represent an association between different entities?

- Identifier
- Attribute
- Entity

- Relationship
4. In Entity Relationship Data Model, which of the following symbol is used to represent Entity Type?
- Oval
  - Diamond
  - Parallelogram
  - Rectangle
5. In an Entity Relationship diagram, a rectangle represents \_\_\_\_\_.
- Identifier
  - Attributes
  - Relationship
  - Entities

1. Represents characteristics of an object.

- Modality
- Attribute
- Relationship
- Cardinality

2. In an Entity Relationship diagram, a rectangle represents:

- Identifier
- Entities
- Relationship
- Attributes

3. The process of identifying entity types, their properties and relationships between them is known as \_\_\_\_\_.

- Phrase
- Cardinality
- Abstraction

- Descriptor

4. Relationships between two entities in the Entity Relationship Data Model are represented by:

- Diamond symbol ✓
- Rectangular box
- Line
- Oval symbol

5. According to the definition of an entity, which of the following is NOT included in it?

- Object
- Concept
- Person
- Action ✓

1. Which of the following diagram is most commonly used for designing databases?

- Data Flow Diagram ✓
- Sequence Diagram
- Tree Diagram
- Block Diagram

2. The first step of creating a level 0 Data Flow Diagram is to:

- Identify prominent modules of system ✓
- Establish link between different entities
- Create a Data Store
- Represent interaction between external entities

3. A Context Level Data Flow Diagram shows:

- External entities only
- Data Store only
- Detailed working of the system

- Input/Output to and from the process and interaction with external entities ✓

4. A type of Data Flow Diagram which provides minimal amount of details about the working of the system is known as \_\_\_\_\_.

- Level 3 diagram
- Context diagram ✓
- Level 2 diagram
- Level I diagram

5. A graphical representation of a system showing the flow of data between its different components is known as:

- Hierarchy Charts
- Gantt Chart
- Pie Chart
- Data Flow Diagram ✓

☐ Arrow symbol in Data Flow Diagram represents \_\_

- Flow of data ✓
- Decision making
- System components
- Entity

☐ Which of the following diagram is most commonly used for designing databases?

- Sequence Diagram
- Block Diagram
- Data Flow Diagram ✓
- Tree Diagram

☐ A type of Data Flow Diagram which provides minimal amount of details about the working of the system is known as

- Context diagram ✓

- Level 3 diagram
- Level 1 diagram
- Level 2 diagram

☒ A simple rectangle symbol in Data Flow Diagram is used to represent

- Processes
- Data Store
- Level
- External Entities ✓

Which of the following is the main user interface of Microsoft SQL server?

- Gesture-based Interface
- Modular Interface
- Graphical User Interface ✓
- Voice-activated Interface

2. Microsoft SQL server is a

- Network
- Hierarchical
- Hybrid
- Relational ✓

3. Which of the following company develops SQL server software?

- Microsoft ✓
- Acer
- Oracle
- HP

4. The basic purpose of Microsoft SQL server is \_\_\_\_\_ .

- To store and retrieve data from database ✓
- To design web pages
- To represent data in graphical form

- To fetch the data from Internet links

5. A person who is responsible for proper working of database and DBMS is known as

- Application Programmer
- Database Administrator ✓
- End User
- Analyst

1. A person who is responsible for the proper working of database and DBMS is known as:

- Analyst
- Database Administrator ✓
- Application Programmer

---

2. Which of the following company develops SQL server software?

- HP
- Microsoft ✓
- Acer
- Oracle

---

3. Microsoft SQL server is a \_\_\_\_\_ DBMS.

- Hybrid
- Relational ✓
- Hierarchical

---

4. The basic purpose of Microsoft SQL server is \_\_\_\_\_.

- To store and retrieve data from database ✓
- To fetch the data from Internet links
- To design web pages

- To represent data in graphical form
- 

5. Which of the following is the main user interface of Microsoft SQL server?

- Voice-activated interface
- Graphical User Interface ✓**
- Modular Interface
- Gesture-based Interface

1. Which of the following company develops SQL server software?

- Microsoft ✓
- HP
- Acer
- Oracle

2. SQL server is a

- DBMS ✓
- Operating system
- Database
- Application program

3. In SQL server, data is stored in the database in the form of

- Files
- Objects
- Tables ✓

4. How many users can access data stored in a database using SQL server?

- Only one user at a time
- Exactly 50 users
- Maximum 10 users
- Many users concurrently ✓

5. Microsoft SQL server is a \_\_\_\_\_ DBMS.

- Hybrid
- Hierarchical
- Relational ✓

1. How many users can access data stored in a database using SQL server?

Options:

- Maximum 10 users
- Exactly 50 users
- Many users concurrently
- Only one user at a time

Correct option: Many users concurrently

2. SQL server is a \_\_\_\_\_.

Options:

- Database
- Operating system
- Application program
- None of the above

Correct option: Database

3. In SQL server, data is stored in database in the form of \_\_\_\_\_.

Options:

- Tables
- Objects
- Files
- Images

Correct option: Tables

4. The basic purpose of Microsoft SQL server is \_\_\_\_\_.

Options:

- To store and retrieve data from database
- To represent data in graphical form
- To design web pages
- To fetch the data from Internet links

Correct option: To store and retrieve data from database

5. Microsoft SQL server is a \_\_\_\_\_ DBMS.

Options:

- Network
- Hierarchical
- Relational
- Hybrid

Correct option: Relational

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Note: Live quiz MCQs also repeated in Exam (6, 7)

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