CS403 - Database Management Systems
Grand Quiz 2020 (Covid19)
Solved By Sonu Ilyas Mughal
Question # 1 of 30 (Start time: 10:10:37 PM, 09 July 2020)

In many to many relationship a third table is created for the relationship, which is also called as ________________.

Select the correct option

- Binary relation
- Associative entity type
- Unary relationship
Question # 3 of 30 (Start time: 10:13:07 PM, 09 July 2020)
The conceptual database design is drawn through___________.

Select the correct option
Data model
E-R model
Database design
Question # 4 of 30 ( Start time: 10:14:25 PM, 09 July 2020 )

The maximum PL/SQL size of data type "VARCHAR2" in DBMS is _____________ bytes.

Select the correct option

- 42767
- 52767
- 32767
Question # 3 of 30 (Start time: 13:16:17 PM, 03 July 2020)

__________________ are those attributes that are a combination of two or more than two attributes.

Select the correct option

- Default value
- Null value
- Primary key
- Composite Attributes
Question # 6 of 30 ( Start time: 10:15:32 PM, 09 July 2020 )

A relation is said to be in BCNF when

Select the correct option

- it has overlapping composite keys
- it has no composite keys
- it has no multivalued dependencies
Question # 7 of 30 ( Start time: 10:16:36 PM, 09 July 2020 )

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

Select the correct option

- One to one relationship
- One to many relationship
- Many to many relationship
Question # 8 of 30 ( Start time: 10:17:03 PM, 09 July 2020 )

In cross reference matrix attributes are mention on ______ and reports are mention on ________.

Select the correct option

- Y axis, X axis
- Y axis, Z axis
- X axis, Y axis
**Question # 9 of 30 (Start time: 10:18:28 PM, 09 July 2020)**

Each __________ of a table contains atomic/single value.

<table>
<thead>
<tr>
<th>Select the correct option</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cell</strong></td>
</tr>
<tr>
<td><strong>Row</strong></td>
</tr>
<tr>
<td><strong>Column</strong></td>
</tr>
</tbody>
</table>
Question # 10 of 30 (Start time: 10:18:54 PM, 09 July 2020)

Each component of DBMS performs _____ functions.

Select the correct option

1. Similar
2. Different
3. Identical
Question # 11 of 30 (Start time: 10:19:37 PM, 09 July 2020)

Which database design represents the structure of the database?

Select the correct option

- Conceptual
- Internal
- External
**Question # 12 of 30** *(Start time: 10:20:58 PM, 09 July 2020)*

A collection of concepts that can be used to describe the structure of a database

**Select the correct option**

<table>
<thead>
<tr>
<th>Database</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBMS</td>
</tr>
<tr>
<td>Data model</td>
</tr>
</tbody>
</table>
Question # 13 of 30 (Start time: 10:21:37 PM, 09 July 2020)

Which of the following does not belong to the Semantic Data Model.

Select the correct option

- ER- Data Model
- Network Data model
- Object oriented data model
Question # 14 of 30  (Start time: 10:23:06 PM, 09 July 2020)
Suppose, we have two entities “Shape” and “Triangle”, then which of the following is a correct statement?

Select the correct option

- Shape is a super type entity and Triangle is a sub type entity
- Shape is a sub type entity and Triangle is a super type entity
- Shape and Triangle both are super type entities
- Shape and Triangle both are sub type entities
Question # 16 of 30 (Start time: 10:25:25 PM, 09 July 2020)

Relational Calculus is a ____________ relational data manipulation language.

Select the correct option

- Procedural, Informal
- Non-Procedural, Informal
- Procedural, Formal
Question # 17 of 30 (Start time: 10:26:23 PM, 09 July 2020)

Which constraint is generally used for efficiency purposes in the data entry process?

Select the correct option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Null value</td>
<td></td>
</tr>
<tr>
<td>Integer value</td>
<td></td>
</tr>
<tr>
<td>Default value</td>
<td></td>
</tr>
</tbody>
</table>
Question # 18 of 30 (Start time: 10:27:00 PM, 09 July 2020)

Candidate keys which are not selected as primary key are called____

Select the correct option

- Secondary Keys
- Foreign Keys
- Alternate Keys
Question # 19 of 30  

Start time: 10:27:33 PM, 09 July 2020

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

Select the correct option

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>attributes</td>
<td></td>
</tr>
<tr>
<td>entities</td>
<td></td>
</tr>
<tr>
<td>keys</td>
<td></td>
</tr>
</tbody>
</table>
Question # 20 of 30  ( Start time: 10:28:22 PM, 09 July 2020 )

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

Select the correct option

- Weak
- Strong (Correct)
- Derived
- Dependent
Question # 21 of 30 (Start time: 10:28:44 PM, 09 July 2020)

A ____________ is used to combine rows from two or more tables, based on a related column between them.

Select the correct option

- Select operator
- Project operator
- Join operation
- Delete operator
**Question # 22 of 30** (Start time: 10:29:53 PM, 09 July 2020)

A software package designed to store and manage databases

<table>
<thead>
<tr>
<th>Select the correct option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
</tr>
<tr>
<td><strong>DBMS</strong></td>
</tr>
<tr>
<td>Data model</td>
</tr>
</tbody>
</table>
Question # 23 of 30 (Start time: 10:30:24 PM, 09 July 2020)

How data security can be assured in the database?

Select the correct option

- By hiding data from all
- Through concurrent access of users
- By asking users not to share things
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Question # 25 of 30 (Start time: 10:31:22 PM, 09 July 2020)

The conceptual database design can be transformed into any ________.

Select the correct option

- Data model
- Database design
- E-R model
Question # 26 of 30 ( Start time: 10:32:18 PM, 09 July 2020 )

For third normal form we concentrate on relations with one key, and we eliminate transitive dependencies.

Select the correct option

- Candidate
- Composite
- Super key
- Primary key
Question # 27 of 30 ( Start time: 10:33:23 PM, 09 July 2020 )

If A -> B and A -> C, then A -> BC
The Inference Rule applies is;

Select the correct option

- Union
- Decomposition
- Augmentation
Question # 28 of 30 (Start time: 10:34:12 PM, 09 July 2020)

Given the following relation it is not 3 NF because
Student (roll no, name, course no, course max. marks, year of study, address), where roll no is PK

Select the correct option

- **it is not in 2 NF**
- it does not have composite key
- non-key attributes course no and course max. marks are functionally dependent
**Question # 29 of 30 (Start time: 10:35:41 PM, 09 July 2020)**

Duplication of data in controlled redundancy is controlled and ______.

**Select the correct option**

<table>
<thead>
<tr>
<th>Option</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Deliberate</td>
<td></td>
</tr>
<tr>
<td>Necessary</td>
<td></td>
</tr>
<tr>
<td>Precise</td>
<td></td>
</tr>
</tbody>
</table>
Question # 1 of 30 (Start time: 10:44:34 PM, 09 July 2020)

A patient can be an outdoor or indoor. Analyze this statement and tell what type of constraint will be applied on patient?

Select the correct option

- Total completeness
- Partial Completeness
- Total Disjoint
- Partial Disjoint
Question # 3 of 30 (Start time: 10:46:53 PM, 09 July 2020)

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

Select the correct option

- Multi-valued
- Single-valued
- No-valued
- Composite
Question # 4 of 30 ( Start time: 10:48:06 PM, 09 July 2020 )

The entity relationship diagram is used to graphically represent the ____ database model.

Select the correct option

- condensed
- physical
- logical
Question # 5 of 30 (Start time: 10:49:15 PM, 09 July 2020)

A relation is said to be in BCNF when

Select the correct option

- it has overlapping composite keys
- it has no composite keys
- it has no multivalued dependencies
Question # 6 of 30 ( Start time: 10:50:35 PM, 09 July 2020 )

How many types of cardinality is specified about relationship?

Select the correct option

- Two
- One
- Three
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Question # 7 of 30 ( Start time: 10:50:49 PM, 09 July 2020 )

Database Application is a program which is used for performing certain operations such as

Select the correct option

- Insertion of data
- Extraction of data
- Updating the data
Question # 8 of 30 (Start time: 10:51:04 PM, 09 July 2020)

The basic purpose of Diamond in ER diagram is to show the ________________.

Select the correct option

- Attributes
- Relationships
- Composite attribute
Question # 9 of 30 (Start time: 10:51:16 PM, 09 July 2020)

Collection of raw facts is called ____.

Select the correct option

- Information
- Object
- Output
Question # 10 of 30 (Start time: 10:51:27 PM, 09 July 2020)

Given the following relation it is not 3 NF because Student (roll no, name, course no, course max. marks, year of study, address), where roll no is PK

Select the correct option

- it is not in 2 NF
- it does not have composite key
- non-key attributes course no and course max. marks are functionally dependent
Question # 11 of 30 (Start time: 10:52:48 PM, 09 July 2020)

There are ______ basic properties of the database relations.

Select the correct option

- Four
- Three
- Six
Question # 12 of 30 (Start time: 10:53:41 PM, 09 July 2020)

Major benefit of data sharing is:

Select the correct option

- Data of same applications placed at same place
- Data of same applications placed at different places
- Data of different application placed at same place
Question # 13 of 30 ( Start time: 10:54:28 PM, 09 July 2020 )

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

Select the correct option

- Five
- Ten
- Fifteen
Question # 14 of 30 (Start time: 10:55:23 PM, 09 July 2020)

Which of the following might be represented with a single-valued attribute?

<table>
<thead>
<tr>
<th>Select the correct option</th>
</tr>
</thead>
<tbody>
<tr>
<td>person's phone number</td>
</tr>
<tr>
<td>car's color</td>
</tr>
<tr>
<td>employee's educational background</td>
</tr>
</tbody>
</table>
Question # 15 of 30 (Start time: 10:56:52 PM, 09 July 2020)

Which of the following is INCORRECT about naming entities?

Select the correct option

- Singular nouns are used
- Write in capitals
- Organization specific names can be used
- Always use abbreviations as they are convenient
Question # 16 of 30 ( Start time: 10:58:07 PM, 09 July 2020 )

Each ____________ of a table contains atomic/single value.

Select the correct option

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cell</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Row</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Column</strong></td>
<td></td>
</tr>
</tbody>
</table>
Question # 17 of 30 (Start time: 10:58:18 PM, 09 July 2020)

Each component of DBMS performs _____ functions.

Select the correct option

- Similar
- Different
- Identical
**Question # 18 of 30** *(Start time: 10:58:30 PM, 09 July 2020)*

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

**Select the correct option**

- Binary operator
- Project operator ***Correct***
- Join operation
- Select Operator
Question # 19 of 30 (Start time: 10:59:06 PM, 09 July 2020)

Which one of the following is not an advantage of DBMS.

Select the correct option

- Data consistency
- Recovery procedure is difficult
- Faster development of new applications
While converting to 2NF all the columns are deleted from the original table except for the determinant which will serve as a __________ key.

Select the correct option

- Composite Key
- Super key
- Foreign key
- Primary key
Question # 21 of 30 (Start time: 11:00:56 PM, 09 July 2020)

If A → B and A → C, then A → BC
The Inference Rule applies is;

Select the correct option

- Union
- Decomposition
- Augmentation
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Question # 22 of 30 (Start time: 11:01:07 PM, 09 July 2020)

The _________ determines that the link between two entities is optional or mandatory.

Select the correct option

- [ ] Maximum cardinality
- [x] Minimum cardinality
- [ ] Maximum degree
Question # 23 of 30 ( Start time: 11:02:12 PM, 09 July 2020 )

If an entity "motor cycle" is associated with at most one "driver", then the relationship between these two entities is:

Select the correct option

- One to one
- One to many
- Many to many
- Many to one
Question # 25 of 30 (Start time: 11:04:40 PM, 09 July 2020)

We have two entities “Person” and “Doctor”. Which of the following is best suitable type of relationship between the mentioned entities?

<table>
<thead>
<tr>
<th>Select the correct option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inheritance</td>
</tr>
<tr>
<td>Sub type</td>
</tr>
<tr>
<td>Super type</td>
</tr>
<tr>
<td>Unary</td>
</tr>
</tbody>
</table>
Question # 27 of 30 (Start time: 11:06:25 PM, 09 July 2020)

The conceptual database design is drawn through ____________.

Select the correct option

- Data model
- E-R model
- Database design
Question # 28 of 30 (Start time: 11:06:53 PM, 09 July 2020)

In___________ appropriate data model is chosen.

Select the correct option

- ERD
- Conceptual Database Design
- Logical Database Design
Question # 29 of 30 (Start time: 11:08:04 PM, 09 July 2020)

Normalization is a process of restructuring a relation to

Select the correct option

- minimize duplication of data in a database
- maximize duplication of data to ensure reliability
- make it of uniform size
Question # 30 of 30 ( Start time: 11:08:44 PM. 09 July 2020 )

Which of the following tool is used to graphically represent the components and design of the system?

Select the correct option

- CRM
- DFD
- CRF
- EDF
A patient can be an outdoor or indoor. Analyze this statement and tell what type of constraint will be applied on patient?

Select the correct option

- Total completeness
- Partial Completeness
- Total Disjoint
- Partial Disjoint