

Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

Identify the incorrect statement among the given.

Answer (Please select your correct option)

- An entity may be an object with a physical existence like a car.
- Age can be considered as a single value attribute of a person.
- The attribute Date_of_birth can be considered as a derived attribute.
- Skill is a multivalued attribute.

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ Constraint states that primary key can not be null.

Answer (Please select your correct option)

Entity Integrity

Correct answer solved by hadi
Cell No:03228043306
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Referential Integrity

Null

Domain

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following shows least amount of detail?

Answer (Please select your correct option)

Context DFD

Level 0 DFD

Level 1 DFD

Level 2 DFD

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

Incase of Context Level DFD, the System is represented by

Answer (Please select your correct option)

At least one Process

One Process only

Two Processes

Three Processes

Correct answer solved by hadi
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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is created by "Database Management System" for its usage?

Answer (Please select your correct option)

Free Standing Data Dictionary

Cross Reference Matrix

Weak Entity

Integrated Data Dictionary

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is Semantic Data Model?

Answer (Please select your correct option)

E-R Data Model

Correct answer solved by hadi
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Hierarchical Data Model

Network Data Model

Relational Data Model

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

Name and _____ are part of the Definitions of an attribute.

Answer (Please select your correct option)

Domain

Symbol

Property

Entity Instance

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ provides the change transparency between Conceptual and External level.

Answer (Please select your correct option)

Physical Data Independence

Correct answer solved by hadi
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Concurrency Control

Logical Data Independence

Functional Dependency

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is CORRECT about Three Level Schema Architecture?

Answer (Please select your correct option)

- External level presents data to the user
- Internal level in a database system will definitely be relational
- External Level cannot contain user views
- Conceptual Level is core of the architecture

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ is not the responsibility of DBMS

Answer (Please select your correct option)

Support for Data Communication

Integrity Services

Data processing

Grant of access rights



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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

The ER- data model is an example of:

Answer (Please select your correct option)

Physical database design

Logical database design

Relational database design

Conceptual database design

Correct answer solved by hadi
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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following design elements does not require an entire table to implement?

Answer (Please select your correct option)

- Entity
- Recursive relationship
- Many-to-Many relationship
- Multi-valued attribute

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider two sets A and B. A contains 3 elements and B contains 4. How many elements do their Cartesian product contains?

Answer (Please select your correct option)

12

Correct answer solved by hadi
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9

16

7

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ is not an operation of relational algebra.

Answer (Please select your correct option)

Addition

Union

Cartesian Product

Set Difference

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following features enforces a relation into 2nd normal form?

Answer (Please select your correct option)

Relation is in 1NF and every non-key attribute is partially dependent on super key.

Relation is not in 1NF and non-key attribute is non-transitively dependent on primary key.

Relation is in 1NF and every non-key attribute is fully functionally dependent on primary key.

Correct answer solved by hadi
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The domain of attribute may include multiple values.

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

If in a relation R, all non key attributes are fully functionally dependent on key attributes. The relation R is in _____.

Answer (Please select your correct option)

2NF

3NF

BCNF

Higher NF

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

A Student has five courses at max registered in a semester and there are many students as well in a course.
Student and Course entities have _____ cardinality.

Answer (Please select your correct option)

One to One

One to Many

Many to One

Many to Many

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

R X θ S, If R and S are relations and θ is a _____.

Answer (Please select your correct option)

Table Name

Attributes

Primary Key

Condition

Correct answer solved by hadi
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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following represents a valid Primary Key for a Student Registration table?

Answer (Please select your correct option)

Student-ID

Student-Father-Name

Student-Class

Student-Semester

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following Normal Form deals with multi valued dependency?

Answer (Please select your correct option)

2NF

3NF

4NF

5NF

Correct answer solved by hadi
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Email: usmanraj20@gmail.com

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

List down the two types of Completeness Constraints.

Answer ([Please click here to Add Answer](#))

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

“Student CGPA (StdCGPA) is identified through student name (StdName)”

Represent the above statement into the functional dependency (FD) notation.

Answer ([Please click here to Add Answer](#))

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Employee

Emp-ID	Emp-Name	City
1	ABC	Lahore
2	DEF	Islamabad
3	GHI	Lahore
4	JKL	Karachi

Answer (Please [click here](#) to Add Answer)

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

2	DEF	Islamabad
3	GHI	Lahore
4	JKL	Karachi

Dept-Head

Head-ID	Dept-Name
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Answer (Please [click here](#) to Add Answer)

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Dept-Head

Head-ID	Dept-Name
1	HR Dept
3	Accounts Dept

Answer (Please [click here](#) to Add Answer)

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

1	HR Dept
3	Accounts Dept

We have two relations Employee and Dept-Head. You have to write resultant table after applying Semi join on these two relations as Employee X (Semi Join) Dept-Head.
Where,
Condition for Semi Join is, Employee.Emp-ID = Dept-Head.Head-ID

Answer ([Please click here to Add Answer](#))

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Why do the relational data model considered as simple?

Answer (Please [click here](#) to Add Answer)

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Course

Course-ID	Course-Title	Instructor-ID	Instructor-Specialization
101	ABC	1	PQR
201	DEF	2	STU
301	GHI	1	PQR

Answer (Please [click here](#) to Add Answer)

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

101	ABC	1	PQR
201	DEF	2	STU
301	GHI	1	PQR
401	JKL	3	YZX
402	MNO	4	ASD

Answer (Please [click here](#) to Add Answer)

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

401	JKL	3	YZX
402	MNO	4	ASD

Where
Course-ID is a Primary Key of the relation Course

Answer ([Please click here to Add Answer](#))

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

402	MNO	4	ASD
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Where
Course-ID is a Primary Key of the relation Course

Find that the relation is in which normal form and also discuss, how Update Anomalies would occur in the relation.

Answer ([Please click here to Add Answer](#))



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Consider the following two columns. The Column A consists of terms related to the ER model and Column B consists of terms used in the relational model.

Column A	Column B
1. Entity Type	A. Primary or Candidate Key
2. Key Attribute	B. Domain
3. Composition Attribute	C. Relation and foreign Key

Answer (Please [click here](#) to Add Answer)



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

1. Entity Type	A. Primary or Candidate Key
2. Key Attribute	B. Domain
3. Composition Attribute	C. Relation and foreign Key
4. Multi-Valued Attribute	D. Set of simple component attributes
5. Value Set	E. Relation

Answer (Please [click here](#) to Add Answer)

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

3. Composition Attribute	C. Relation and foreign Key
4. Multi-Valued Attribute	D. Set of simple component attributes
5. Value Set	E. Relation

The terms in Column A have been mapped to Column B so that it corresponds to the mapping process of the ER Model into a Relational model. Map each of the entry in column A to the appropriate entry in column B?

Answer (Please [click here](#) to Add Answer)



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