

# VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI  
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**TEAM HADI(VU LAHORE)**

## MID TERM PAST PAPER

We Deal All Kind of VU Project  
(PHP, .NET, ANDROID, PYTHON)

**MADE AND SOLVED BY HADI**

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

If there are N records in a table, then the selectivity of primary key column is

Note Correct answer solve with stamp :

Answer ( Please select your correct option )

1/N



N/2

lg (N)

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is one class of decision support environment.

Answer ( Please select your correct option )

OLAP



OLTP

Data Cleansing

ETL

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Normally Selectivity of query in data warehouse is

Answer ( Please select your correct option )

High

Low

Not measured



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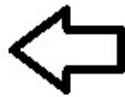
Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

De-Normalization normally speeds up

Answer ( Please select your correct option )

Data Retrieval



Data Modification

Development Cycle

Data Replication

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

De-Normalization normally slows down

Answer ( Please select your correct option )

Data Retrieval

Data Modification



Development Cycle

Data Replication

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

Geography is a good example of

Answer ( Please select your correct option )

One-dimensional Hierarchy

Multidimensional Hierarchy

Non-Dimensional

Linear Hierarchy



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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

Partition elimination is not possible with

Answer ( Please select your correct option )

Normalization

Round-Robin

De-normalization

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

OLAP is Analytical Processing instead of Transaction Processing, and OLAP is a

Answer ( Please select your correct option )

Physical database design

Implementation technique

Framework



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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

ER is a \_\_\_\_\_ design technique that seeks to remove the redundancy in data.

Answer ( Please select your correct option )

- Logical **true**
- Physical
- Data Dependent
- Transaction Dependent

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

Pre-computed \_\_\_\_\_ can solve performance problems

Answer ( Please select your correct option )

Aggregates

Facts

Dimensions

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

Extract, Transform, Load (ETL) process consist of steps which are \_\_\_\_\_.

Answer ( Please select your correct option )

Independent and Interrelated

Independent or Interrelated

Dependent and Interrelated

Dependent or Interrelated

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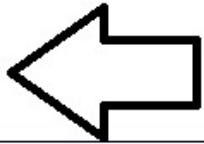
Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

In full extraction, data is extracted completely from the source system. Therefore there is no need to keep track of changes to the \_\_\_\_\_

Answer ( Please select your correct option )

Data Source



DWH

Data Mart

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

Data Extraction from source systems is a difficult task because source systems are \_\_\_\_\_

Answer ( Please select your correct option )

Homogeneous

Heterogeneous

true



Identical

Standardized

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

Lexical errors fall in which type of class of anomalies

Answer ( Please select your correct option )

- Syntactically Dirty Data
- Semantically Dirty Data
- Coverage Anomalies
- Missing Values Anomalies



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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

The degree of similarity between two records, often measured by a numerical value between \_\_\_\_\_, usually depends on application characteristics.

Answer ( Please select your correct option )

0 and 1



0 and 10

0 and 100

0 and 99

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

As consumers, human beings judge the quality of things during their life-time.

- I Consciously
- II Subconsciously
- III Unconsciously

book

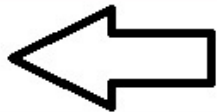
Answer ( Please select your correct option )

I Only

II Only

III Only

I & II Only



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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

The growth of master files and magnetic tapes exploded around the mid- \_\_\_\_\_.

Answer ( Please select your correct option )

1950s.

1960s.

1970s.

1980s.



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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

Relational databases allow you to navigate the data in \_\_\_\_\_ that is appropriate using the primary, foreign key structure within the data model.

Answer ( Please select your correct option )

Only One Direction

Any Direction



Two Direction

None of these

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

In ROLAP access to information is provided via relational database using \_\_\_\_\_ standard SQL.

Answer ( Please select your correct option )

ANSI **true**



Microsoft

Oracle

SAP

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

If  $w$  is the window size and  $n$  is the size of data set, then the complexity of merging phase in BSN method is \_\_\_\_\_

Answer ( Please select your correct option )

- $O(n)$
- $O(w)$
- $O(w n)$
- $O(w \log n)$

true



Correct answer solved by hadi

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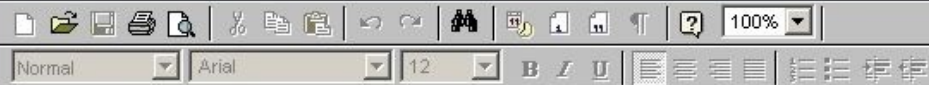
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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

List down the two ways to simplify the ER Model.

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



- § Two general methods:
- § De-Normalization
- § Dimensional Modeling (DM)

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

List down any two advantages of applying “change data capture” technique in modern systems.

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

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Normal Arial 12 B I U

There are  
no procedural walls, and the data users capture data and retrieve makes the business to grow.

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

“Splitting of single field” is one of the types of transformation. It is used to store individual components of names and addresses in separate fields in data warehouse. In your point of view, what are the benefits doing this?

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

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The benefits of doing this is  
Joining of parts selected from many source systems  
is more widespread in the data warehouse environment.

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

In your point of view what may be the possible reasons to perform conversion task during data transformation? Explain with an example.

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



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**This is an all-inclusive task. It includes a large variety of rudimentary conversions of single fields for two primary reasons (i) to standardize among the data extractions from disparate source systems, and (ii) to make the fields usable and understandable to the users.**

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Identify the given statements as correct or incorrect and justify your answer in either case.

1. "Median is an example of Distributive Aggregate".
2. "With the help of "current value field" method we can track as many changes as we wish".

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



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1. **INCORRECT** because...

The holistic aggregates that give a complete picture of the data, such as median.

2. **CORRECT.**

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Identify the given statements as correct or incorrect and justify your answer in either case.

1. "When attributes or records are missing in extracted data then the data is semantically dirty".
1. "Pattern-based data cleansing technique identify outlier fields and records using the values of Mean and Standard Deviation".

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



Normal Arial 12 B I U

1; INCORRECT... because when attributes or records are missing in extract data then the data is coverage Anomalies.  
2;INCORRECT...because Pattern-based: Identify outlier fields and records that do not conform to existing patterns in the data. Combined techniques (partitioning, classification, and clustering) are used to identify patterns that apply to most records.

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