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CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM 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!



CS403 Database Management Systems

BC110401325 (RIZWAN ALI)

Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

In which of the following situations, Clustering is suitable:

Answer (Please select your correct option)

- Frequently updating
- Relatively static
- Frequently deletion
- Relatively dynamic



Correct answer solved by hadi
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120:00



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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Vertical partitioning is done on the basis of

Answer (Please select your correct option)

Attributes



Rows

Clustering

Replication

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

SQL is an _____ standard computer language

Answer (Please select your correct option)

- ANSI
- General
- Cold fusion
- Interactive



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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following statements creates a database named COMPANY.

Answer (Please select your correct option)

- CREATE DATABASE COMPANY
- CREATE DB company
- ADD DATABASE copmany
- CREATE company DATABASE

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is used to access and manipulate data.

ok A DML is a language, which enables users to access and manipulate data

Answer (Please select your correct option)

DDL

DML

DCL

ERD

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not true about relational tables?

Answer (Please select your correct option)

- Values of an attribute are of the same type.
- Primary Key identifies records uniquely.
- Each column must have a unique name.
- The sequence of rows is significant.



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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

If $D \rightarrow E$ and $E \rightarrow F$ then $D \rightarrow F$.
This inference rule is called as _____.

Answer (Please select your correct option)

ok Additivity or Union:

Transitivity

Additive

Projectivity

Augmentation

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following SQL Function does not use input parameter?

Answer (Please select your correct option)

- LOWER
 - UPPER
 - LEN
 - CURRENT_TIME
- cnfrm kar lo String (LOWER, UPPER, SUBSTRING, LEN)

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

“Select * from STUDENT, DEPARTMENT” is an example of

Answer (Please select your correct option)

Cartesian Join

I THINK

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Inner Join

Outer Join

Full Outer Join

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a DDL Command?

Answer (Please select your correct option)

Create table

Alter table

Insert into

Create database



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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following stores the Textual Data?

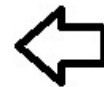
Answer (Please select your correct option)

Tinyint

Smallint

Biggint

Varchar



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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the correct syntax for SELECT statement?

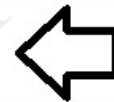
Answer (Please select your correct option)

SELECT column_name(s) FROM table_name

SELECT FROM table_name column_name(s)

FROM SELECT column_name(s) table_name

FROM table_name SELECT column_name(s)



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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Identify the command to remove a record from the table.

Answer (Please select your correct option)

- DROP
- INSERT
- UPDATE
- DELETE



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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a type of user interface?

Answer (Please select your correct option)

- Graphical User Interface (GUI)
- Forms
- Database Schema
- Text based Interface



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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not correct about input forms?

Answer (Please select your correct option)

- Provide an easy, effective, efficient way to enter data into a table
- Especially useful when the person entering the data is not familiar with the inner workings
- Provide different controls to add data into the tables
- One input forms can populate one table at a time

a and c both chk this

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is a control that presents a set of choices from which a user can select one or more items; items can be text, graphics, or both.

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Answer (Please select your correct option)

Button

List box

Text input

Report



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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

The main memory of a computer system is also known as

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Answer (Please select your correct option)

- ROM
- RAM
- PROM
- Hard disk



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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is incorrect regarding Indexes?

Answer (Please select your correct option)

It can not be created on composite attributes.

Index can be defined even when there is no data in the table.

It support Range selections.

It can be created using 'Create Index' statement.

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

CLUSTERED Index is created automatically, when we create _____

Answer (Please select your correct option)

- ERD
- Database
- Cross Reference Matrix
- Primary Key

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true about the views?

Answer (Please select your correct option)

- View can only show few attributes of a table
- View can not be used for retrieving data
- View can not be used as security mechanisms
- We can customize the order of the table fields through Views



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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following SQL Command will DROP a view named "STUDENT"

Answer (Please select your correct option)

- DROP VIEW STUDENT
- DROP FROM STUDENT VIEW
- DELETE STUDENT FROM VIEW
- DELETE ALL STUDENT VIEW



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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following command shows all the columns from "PRODUCT-VIEW?"

Answer (Please select your correct option)

SELECT * FROM PRODUCT-VIEW



SELECT PRODUCT-VIEW

SHOW ALL PRODUCT-VIEW

PRODUCT-VIEW SELECT

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ must identify a record in the table, uniquely.

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Answer (Please select your correct option)

- Hash Algorithm
- Key
- SQL Statement
- Index



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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

To access a file ABC, sequential file access involves too much _____ as compared to direct file access.

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Answer (Please select your correct option)

Time, Space and number of files

by concept

Number of Files

Space

Time

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

A file with _____ records, with sequential access file, an average of _____ key comparisons are necessary.

ok Consider, for example, the case of simple linear search on a file with 1,000 records.
With the sequential organization, an average of 500 ke

Answer (Please select your correct option)

10000, 5500

10000, 5000

10000, 4500

10000, 500



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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of following is INCORRECT about "Materialized Views"?

Answer (Please select your correct option)

- These are suitable in "Data Warehouses".
- These are schema objects which can be use to summaries the data.
- They can not be partitioned.
- Their existence is transparent to SQL applications and users.

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not the property of Transaction?

Answer (Please select your correct option)

Atomicity

Consistency

Redundancy

ok atomicity, consistency, isolation, and durability

Durability

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Dead Lock can be prevented by giving each transaction a _____.

Answer (Please select your correct option)

Priority

Name

Clustered Index

Cartesian Join

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is used to detect the dead lock.

Answer (Please select your correct option)

- Wait-for graph
- Cross Reference Matrix
- Inner Join
- Clustered Index

ok 50% bcz wo jo lock ka graph bna ha shaid wo ha

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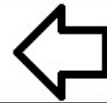
Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

To read a database object, it is first brought into _____ from disk, and then its value is copied into a program variable.

Answer (Please select your correct option)

- Main Memory
- Flash Memory
- SATA Hard Disk
- Solid State Hard Disk



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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Locking is maintained by _____

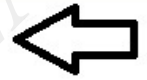
Answer (Please select your correct option)

End User

Form Designer

Lock Manager

User Interface



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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

After execution of "commit" statement, _____ is updated first.

Answer (Please select your correct option)

- Database Buffer
- Clustered-Index
- Non-Clustered Index
- Application Program



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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following feature provides more data reliability in a DBMS?

1. general cncpt ha mgr smj ni a rain a mil rha pta kar k bta dena

Answer (Please select your correct option)

Data Sharing

Controlled redundancy

Better Data Integrity

Concurrency

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Attributes that jointly make a composite attribute are called _____ of that attribute.

Answer (Please select your correct option)

- Entity
- Instance
- Domain
- Components

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

How we CANNOT determine the cardinalities of a system?

Answer (Please select your correct option)

By interviewing the Users

Through analysis of the Organization

Using the system requirements

Creating by ourselves

ok c and D ma say koi 1 ha

Determination of the cardinalities is done by interviewing the users of the system and by the analysis of the organization.

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

As a general rule, which external entity of DFD cannot appear as an entity type in ERD?

Answer (Please select your correct option)

- An entity with many instances
- A super-type entity
- A subtype entity
- An entity type for which instance is single

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true about foreign key?

Answer (Please select your correct option)

- Foreign key should not be from the same domain as is the primary key
- Foreign key and Primary key names must be same
- There can be only ONE foreign key in a table/relation
- Home relation of foreign key attribute is the one, which is present as primary in another relation



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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

In which type of relationship, PK of the same Entity type can be used as FK?

39. agar pk jo ha uski FK 1 ki jga kafi bar use ho skti to one to many or agar single he to one to one ab khud andaza lgao or mgy v btao

Answer (Please select your correct option)

One-to-many

One-to-one

Many-to-many

Recursive

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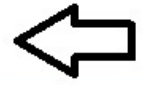
Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following operation allows certain selections and Cartesian product into one operation?

Answer (Please select your correct option)

- Join
- Select
- Project
- Union



Correct answer solved by hadi
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CS403 Database Management Systems BC110401325 (RIZWAN ALI)

Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

Discuss the situation in which we use GROUP BY clause ?

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

The GROUP BY clause can be used in a SELECT statement to collect data across multiple records and group the results by one or more columns. It is added to SQL because aggregate functions (like SUM) return the aggregate of all column values every time they are called, and without the GROUP BY function it is impossible to find the sum for each individual group of column values.

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

What are the two ways to create a new view in the database?

Create database view;
Create database

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

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Indent, Outdent, Undo, Redo, and a 100% zoom level.

create dataabse view;
i think so

There are two ways to create a new view in your database.
You can:

- Create a new view from scratch.
- Or, make a copy of an existing view and then modify it.

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CS403 Database Management Systems BC110401325 (RIZWAN ALI)

Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

Discuss any two situations of Concurrent Access of data?

ya ha 100%

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Answer (Please click here to Add Answer)

ya wala ni ha page 314 pay 3 point
i think
Lost Update Problem • Uncommitted Update Problem • Inconsistent Analysis Problem

There are different situations during concurrent access of the data: • Different transactions accessing (reading or writing) same object and one or all writing it

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CS403 Database Management Systems

BC110401325 (RIZWAN ALI)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Why we use Cross Reference Matrix?

How do you explain Cross Reference Matrix? (Marks 2)

Answer:- (Page 65)

This is a tool available in the data dictionary and helps us in finding entities of the database and their associations.

Answer (Please click here to Add Answer)

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page 65 pay be ha

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CS403 Database Management Systems

BC110401325 (RIZWAN ALI)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

```
SELECT * FROM Persons
WHERE FirstName LIKE '%a';
What does the above statement return?
```

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

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apna cncpt use hna ha

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose, we have an ERD having two entities, Voter and Ballot paper. There is one to one relationship between these two entities.

Voter Entity has attributes as;

Voter-CNIC, Voter-name

Ballot Paper Entity has attributes as;

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

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Ballot Paper Entity has attributes as;
Paper-id, Paper-type

Paper-id = Ballot Paper Serial Number
Paper-type = Vote is conducted for Provincial or National Assembly

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

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3rd wali glt lag rhi ha bcz is mai hum attribute ko theak thara say nhi likh rhy han baqi
2no ma thk ha

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Analyze the statement given below and identify as correct or incorrect. Justify your answer in either case.
"Usually, we prefer direct access over sequential access of files."

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

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CS403 Database Management Systems BC110401325 (RIZWAN ALI)

Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

Give an Example of Dead Lock.

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

Give one example of Deadlock. (Marks 3)
Answer:- [Click here for detail](#)
A simple computer-based example is as follows. Suppose a computer has three CD drives and three processes. Each of the three processes holds one of the drives. If each process now requests another drive, the three processes will be in a deadlock. Each process will be waiting for the "CD drive released" event, which can be only caused by one of the other waiting processes. Thus, it results in a circular chain.

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Analyze the below query and find out why it will not work? Also correct the error(s).

```
SELECT * FROM customer WHERE Year>'2004';
```

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

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Question No : 50 of 52

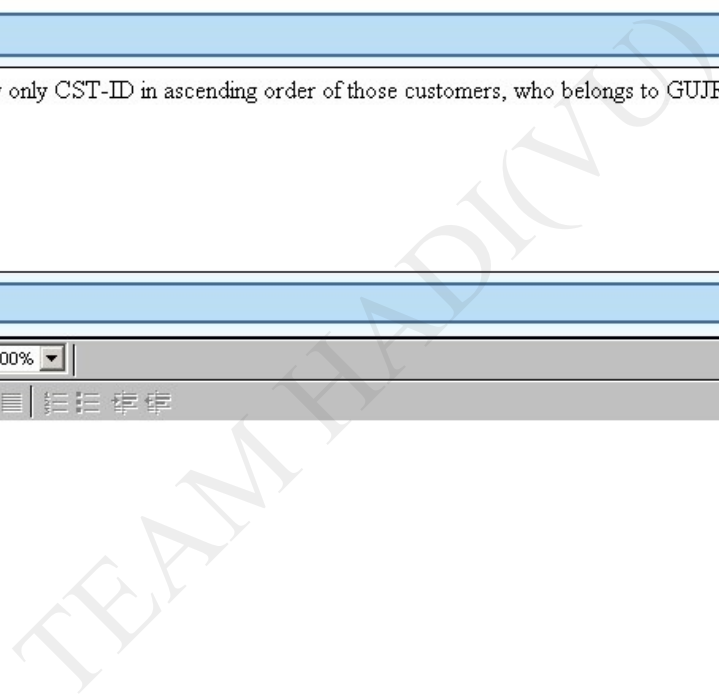
Marks: 5 (Budgeted Time 10 Min)

Create a view named STUDENT-LIST on CUSTOMER table to show only CST-ID in ascending order of those customers, who belongs to GUJRANWALA city

CUSTOMER (CST-ID, CST-NAME, CITY)

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

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Examination VU Examination System (... x)

CS403 Database Management Systems BC110401325 (RIZWAN ALI)

Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

If we have two tables Table 1 and Table 2. Table 1 and Table 2 have same attributes and same records in them. Consider, we have 20 indexes on Table 1 and 14 indexes on Table 2. In Index Sequential File, we want to perform three operations (Insertion, Updation and Searching) on values in both tables. Keeping in mind, the scenario above; analyze the statements given below and identify as correct or incorrect.

A – Time to insert value in Table 1 is greater than in Table 2.

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

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CS403 Database Management Systems BC110401325 (RIZWAN ALI)

Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Proposed time, we want to perform three operations (insertion, updation and searching) on values in both tables. Keeping in mind, the scenario above, analyze the statements given below and identify as correct or incorrect.

- A - Time to insert value in Table 1 is greater than in Table 2.
- B - Time to update value in Table 2 is greater than in Table 1.
- C - Time to retrieve data from Table 1 is less than Table 2.

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

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Map each option of Column1 with appropriate option in Column2

Column 1	Column 2
1: Strong entity	A: Successful candidate key

Answer (Please click here to Add Answer)

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a-->d
Strong Entity Type An entity type whose instances can exist independently

2-->A
The primary key can also be defined as the successful candidate key.

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

2: Primary key	B: May or may not return unique instance
2: Secondary key	C: Dependent existence
3: Weak entity	D: Independent existence

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

secondary key-----B
uch attributes on which we need to access the instances of an entity type that may not necessarily return unique instance is called the secondary key.

weak--->C
An entity type whose instances cannot exist without being linked with instances of some other entity type,

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