



Cs 403 Solved



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Examination VU Examination System (...

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CS403 Database Management Systems

BC110401019 (SANIYA MUZAFFAR)

Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Controlling Redundancy in Databases DOES NOT help to

Answer (Please select your correct option)

☐ Avoid data duplication

☐ Avoid unnecessary wastage of storage space

☐ Avoid unauthorized access to data

☐ Avoid data inconsistency

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 2 of 52 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)

☐ Integrated Data Dictionary

☐ Free Standing Data Dictionary

☐ Cross Reference Matrix

☐ Weak Entity

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Examination VU Examination System (...)

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CS403 Database Management Systems

BC110401019 (SANIYA MUZAFFAR)

Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following types of partitioning reduces the chances of unbalanced partitions?

Answer (Please select your correct option)

☐ Vertical

☐ List

☐ Hash

☐ Range

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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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CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is a correct way of selecting all the columns from a table called PERSONS?

Answer (Please select your correct option)

☐ SELECT FROM * Persons

☐ SELECT * FROM Persons

☐ SELECT * WHERE Persons

☐ SELECT WHERE * Persons

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 6 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is used to add or drop columns in an existing table?

Answer (Please select your correct option)

☐ ALTER

☐ HAVING

☐ SELECT

☐ THEN

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Examination VU Examination System (...

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Question No : 7 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following gives all the fields from employee table named as EMP?

Answer (Please select your correct option)

☐ select * from EMP

☐ select emp* from EMP

☐ select emp_id where EMP

☐ select * where EMP

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 8 of 52 Marks: 1 (Budgeted Time 1 Min)

DML commands are used for:

Answer (Please select your correct option)

☐ inserting data into databases

☐ creating databases

☐ destroying databases

☐ creating DB objects

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Examination VU Examination System (...

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Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is not an operation of relational algebra?

Answer (Please select your correct option)

☐ Union

☐ Reminder

☐ Cartesian Product

☐ Set Difference

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There are five basic operations in relational algebra: Selection, Projection, Cartesian product, Union, and Set Difference.

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Examination VU Examination System (...

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Question No : 10 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 : 11 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following stores the Textual Data?

Answer (Please select your correct option)

☐ Tinyint

☐ Smallint

☐ Bigint

☐ Varchar

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Question No : 12 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following commands is used to drop the table named STUDENT?

Answer (Please select your correct option)

☐ DROP TABLE STUDENT

☐ TABLE STUDENT DROP

☐ TABLE DROP STUDENT

☐ STUDENT TABLE DROP

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Examination VU Examination System (...

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Question No : 13 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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Examination VU Examination System (...

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Question No : 14 of 52 Marks: 1 (Budgeted Time 1 Min)

Procedure of finding the size of Cartesian Product is _____

Answer (Please select your correct option)

- ☐ the number of columns in the first table multiplied by the number of columns in the second table.
- ☐ the number of columns in the first table multiplied by the number of rows in the second table.
- ☐ the number of rows in the first table multiplied by the number of columns in the first table.
- ☐ the number of rows in the first table multiplied by the number of rows in the second table.

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Examination VU Examination System (...

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Question No : 15 of 52 Marks: 1 (Budgeted Time 1 Min)

Suppose there are 7 rows and 6 columns in TABLE1 and 5 rows and 3 columns in TABLE2; what is the size of the Cartesian product incase of CROSS JOIN between these two tables?

Answer (Please select your correct option)

☐ 35

☐ 21

☐ 30

☐ 18

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Examination VU Examination System (...)

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Question No : 17 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is not related with Browser based forms development?

Answer (Please select your correct option)

- ☐ HTML
- ☐ ASP
- ☐ Front Page
- ☐ Dev C

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Examination VU Examination System (...

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Question No : 18 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ is an example of non-volatile memory.

Answer (Please select your correct option)

☐ SRAM

☐ Cache Memory

☐ Flash memory

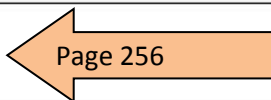
☐ DRAM

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Examination VU Examination System (...

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Question No : 20 of 52 Marks: 1 (Budgeted Time 1 Min)

What is the impact of setting multiple indexes for the same key?

Answer (Please select your correct option)

- ☐ Multiple indexes for the same key can not be set
- ☐ It increases efficiency
- ☐ It decreases efficiency
- ☐ It will increase complexity as the access time will be increased

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Examination VU Examination System (...

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Question No : 21 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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Examination VU Examination System (...

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Question No : 22 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is true regarding Index?

Answer (Please select your correct option)

- ☐ Index can only be created for a single table in database
- ☐ Index can maximum be created for two tables in database
- ☐ Index can only be created, when a database has at least 3 tables
- ☐ Index can be created for every table in the database

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Examination VU Examination System (...)

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Question No : 23 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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Examination VU Examination System (...

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Question No : 24 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT CORRECT Regarding VIEWS?

Answer (Please select your correct option)

- ☐ VIEWS can be used to interact with the database.
- ☐ Through VIEWS users can focus on their interested data.
- ☐ VIEW can show one or more records from a database.
- ☐ VIEW cannot be updated

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 25 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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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 26 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.

Answer (Please select your correct option)

☐ Time, Space and number of files

☐ Number of Files

☐ Space

☐ Time

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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 used to summarize the data.
- ☐ They can not be partitioned.
- ☐ Their existence is transparent to SQL applications and users.

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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

☐ Durability

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 29 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a feature of "Database Transaction"?

Answer (Please select your correct option)

- ☐ Users should be able to regard the execution of each transaction as atomic.
- ☐ It must follow the ACID properties.
- ☐ Either all actions of a Transaction are carried out or none are.
- ☐ Transaction always affects the every other concurrent transaction.

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Examination VU Examination System (...)

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Question No : 30 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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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 31 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

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 32 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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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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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Examination VU Examination System (...)

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Question No : 34 of 52 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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Examination VU Examination System (...

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Question No : 35 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following feature allows many users to use a DBMS at the same time?

Answer (Please select your correct option)

☐ Robustness

☐ Concurrency

☐ Scalability

☐ Efficiency

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Question No : 36 of 52 Marks: 1 (Budgeted Time 1 Min)

Major drawback of Traditional File Processing System is

Answer (Please select your correct option)

- ☐ Sharing of data
- ☐ Congestion Control
- ☐ Data Inconsistency
- ☐ Concurrency

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BC110401019 (SANIYA MUZAFFAR)

Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Data is also called

Answer (Please select your correct option)

☐ Organized facts

☐ Raw facts

☐ Information

☐ Processed facts

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Question No : 38 of 52 Marks: 1 (Budgeted Time 1 Min)

A DBMS which performs all necessary actions associated to a database, is a collection of

Answer (Please select your correct option)

☐ Steps

☐ Programs

☐ Files

☐ Processes

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Examination VU Examination System (...)

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Question No : 39 of 52 Marks: 1 (Budgeted Time 1 Min)

Minimal Super Key can also be named as

Answer (Please select your correct option)

☐ Candidate key

☐ Alternate key

☐ Foreign key

☐ Secondary key

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Examination VU Examination System (...)

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

Basic building block of Relational Data Model is

Answer (Please select your correct option)

☐ Manipulation Language

☐ Row

☐ Table

☐ Cartesian product

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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

List down two different classifications of indexes.

Answer (Please click here to Add Answer)

Normal Arial 12 B I U

Indexes are classified as under:

- Clustered vs. Un-clustered Indexes
- Single Key vs. Composite Indexes
- Tree-based, inverted files, pointers

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

State two problems that can come up as a result of Inconsistent Database?

Answer (Please click here to Add Answer)

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Data inconsistency leads to a number of problems, including

loss of information and incorrect results.

As a result of the **data inconsistency**, these files duplicate some **data** such as addresses and names, compromising **data** integrity.

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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

Discuss the purpose of SELECT clause in SQL query.

Answer (Please click here to Add Answer)

The SELECT clause specifies the table columns that are retrieved.

The **SQL SELECT clause** returns a result set of records from one or more tables. A **SELECT clause** retrieves zero or more rows from one or more database tables or database views. In most applications, **SELECT** is the most commonly used data query language (DQL) command

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

How a VIEW can be used for security purpose?

Answer (Please click here to Add Answer)

Views can be used as security mechanisms by allowing users to access data through the view, without granting the users permissions to directly access the underlying base tables of the view.

Views are **used for security purposes** because they provide encapsulation of the name of the table. Data is in the virtual table, not stored permanently. Views **display** only selected data. We **can** also **use Sql Join s** in the Select statement in deriving the data for the **view**.

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

Create a simple index, named "PersonIndex", on the CNIC field of the PERSON table.

Answer (Please click here to Add Answer)

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INDEX Syntax

```
CREATE INDEX PersonIndex
ON PERSON (CNIC);
```

CREATE UNIQUE INDEX Syntax

```
CREATE UNIQUE INDEX PersonIndex
ON PERSON (CNIC);
```

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Examination VU Examination System (...

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

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

Give an Example of Dead Lock.

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

In concurrent computing, a deadlock is a state in which each member of a group is waiting for another member, including itself, to take action

Example:-

Transaction T1 gets an exclusive lock on object A, T2 gets an exclusive lock on B, T1 requests an exclusive lock on B and is queued, and T2 requests an exclusive lock on A and is queued. Now, T1 is waiting for T2 to release its lock and T2 is waiting for T1 to release its lock! Such a cycle of transactions waiting for locks to be released is called a deadlock.

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

Student (STU_ID, STU_NAME, FATHER_NAME, ADDRESS, CITY, PHONE_NO)

Write a SQL query on student table to get record of all students which belongs to City Lahore or Islamabad and Student Name start from alphabet A.

Answer (Please click here to Add Answer)

```
select STU_ID,STU_NAME,FATHER_NAME,ADDRESS,CITY,PHONE_NO
from student
where STU_NAME LIKE 'A%'and CITY in ('Lahore','Islamabad')
order by STU_NAME
```

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Examination VU Examination System (...)

CS403 Database Management Systems BC110401019 (SANIYA MUZAFFAR)

Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

Create a view named 'Student-List' on STUDENT table which will show STU_ID and STU_NAME of those students, who belongs to Lahore.

STUDENT (STU_ID, STU_NAME, FATHER_NAME, ADDRESS, CITY, PHONE_NO)

Answer (Please click here to Add Answer)

Creating view:
Create View student-list As (Select STU_ID,STU_NAME,FATHER_NAME,ADDRESS,CITY,PHONE_NO)
from student
where CITY ='Lahore%';

following query is to display upper view:
select * from student-list

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