

For Solved Visit **VU Answer**

## CS403 Final Term Papers By Waqar (File 5)

VU Examination System (CLIENT) VUTES 6.5 : Fall 2012 (FinalTerm) : - Windows Internet Explorer

http://localhost/VUTES/client/Instructions.aspx

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

Which of the following is not the component of Relational Data Model?

Answer ( Please select your correct option )

- Integrity Constraint
- Manipulation Language
- Relation / Table
- Domain Constraint

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Question No : 2 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is used to manage the Database and its Users.

Answer ( Please select your correct option )

- DBMS
- File Processing System
- DFD
- Cross Reference Matrix

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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)

Which of the following is one of the purposes of using DML commands?

Answer ( Please select your correct option )

- Creating databases
- Destroying databases
- Inserting data in tables
- Create table

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

\_\_\_\_\_ is used to create and destroy database and database objects

Answer ( Please select your correct option )

- ERD
- DCL
- DDL
- DML

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Question No : 8 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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Question No : 9 of 52 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 : 10 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

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

"Select \* from STUDENT, DEPARTMENT" is an example of

Answer ( Please select your correct option )

- Cartesian Join
- Inner Join
- Outer Join
- Full Outer Join

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Question No : 12 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 : 13 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer ( Please select your correct option )

- TRUNCATE TABLE STUDENT
- TABLE TRUNCATE STUDENT
- TABLE STUDENT TRUNCATE
- STUDENT TABLE TRUNCATE

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Question No : 14 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 : 15 of 52 Marks: 1 (Budgeted Time 1 Min)

If a relation contains single Key, the relation is automatically in \_\_\_\_\_.

Answer ( Please select your correct option )

- 1NF
- 2NF
- 3NF
- 4NF

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Question No : 16 of 52 Marks: 1 (Budgeted Time 1 Min)

The following sentence is incorrect about sub-query.

Answer ( Please select your correct option )

- A sub query must be enclosed in the parenthesis.
- A sub query must be put in the left hand of the comparison operator.
- A sub query cannot contain ORDER-BY clause.
- A query can contain more than one sub queries.

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Question No : 17 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 in case of CROSS JOIN between these two tables?

Answer ( Please select your correct option )

- 35
- 21
- 30
- 18

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

\_\_\_\_\_ is a control that users click to perform an action.

Answer ( Please select your correct option )

- Button
- Text box
- Input form
- Report

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Question No : 19 of 52 Marks: 1 (Budgeted Time 1 Min)

The main memory of a computer system is also known as

Answer ( Please select your correct option )

- ROM
- RAM
- PROM
- Hard disk

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Question No : 20 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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Question No : 21 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ records data by burning macroscopic holes in the surface of the disk with a laser.

Answer ( Please select your correct option )

- Hard disk
- RAM
- Optical disk
- Floppy disk

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

\_\_\_\_\_ is not a feature of hash access.

Answer ( Please select your correct option )

- indexes to search or maintain
- Very fast direct access
- Inefficient sequential access
- Use when direct access is needed, but sequential access is not

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Question No : 23 of 52 Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ is disadvantage of chaining technique to handle the collisions.

Answer ( Please select your correct option )

- Unlimited Number of elements
- Fast re-hashing
- Overhead of multiple linked lists
- Maximum number of elements must be known

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Question No : 24 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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Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is the correct way of removing the Index called branchNoIndex?

Answer ( Please select your correct option )

- DROP INDEX branchNoIndex;
- APPEND INDEX branchNoIndex;
- REMOVE INDEX branchNoIndex;
- DEL INDEX branchNoIndex;

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Question No : 26 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a type of VIEWS?

Answer ( Please select your correct option )

- Materialized View
- Simple Views
- Complex View
- Cross Reference View

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Question No : 27 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 : 28 of 52 Marks: 1 (Budgeted Time 1 Min)

A perfect hash function map a key to distinct location having search time \_\_\_\_\_.

Answer ( Please select your correct option )

- $O(1)$
- $O(n)$
- $O(n+1)$
- $O(n-1)$

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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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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 )

- Name
- Clustered Index
- Cartesian Join
- Priority

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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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Question No : 32 of 52 Marks: 1 (Budgeted Time 1 Min)

Wait-for graph is maintained by \_\_\_\_\_

Answer ( Please select your correct option )

- Lock manager
- Index Manager
- View Manager
- Constraint Manager

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Question No : 33 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 : 34 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 : 35 of 52 Marks: 1 (Budgeted Time 1 Min)

To make a change in Traditional File Processing System was difficult due to

Answer ( Please select your correct option )

- Independent program and data
- Program and data interdependence
- Slow system performance
- Lack of computer knowledge

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

In DFD, Collector shows the \_\_\_\_\_ of data to a single point

Answer ( Please select your correct option )

- Divergence
- Convergence
- Subtraction
- Separation

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Question No : 37 of 52 Marks: 1 (Budgeted Time 1 Min)

Attributes on which we don't need to access the unique instances of an entity type is called

Answer ( Please select your correct option )

- Primary key
- Secondary key
- Alternate key
- Foreign key

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

DFD and CRM help to identify the

Answer ( Please select your correct option )

- Attribute
- Entity types
- Data Model
- Database

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

A patient can only be an indoor or an outdoor patient, what do you conclude about patient entity from above statement?

Answer ( Please select your correct option )

- Complete Disjoint
- Total Completeness
- Partial Disjoint
- Partial overlapping

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

Which of the following is true about a relation?

Answer ( Please select your correct option )

- We cannot determine the degree of a relation
- A relation is subset of a Cartesian product
- A relation is a three dimensional arrangement
- A relation can only have a limited number of records

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

Discuss the purpose of OR operator in SQL Command?

Answer ( Please click here to Add Answer )

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

Write any two similarities between materialized views and indexes?

Answer ( Please click here to Add Answer )

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

Part of ER diagram for "University System" is given below. Mention Dependency exists between entities from the list provided.  
(Dependencies: Existence, Identifier, Referential)

Department —| Faculty

Answer ( Please click here to Add Answer )

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

List Down the four important view types.

Answer ( Please click here to Add Answer )

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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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Question No : 46 of 52 Marks: 3 (Budgeted Time 6 Min)

Convert the following relation into one normal form ahead. (For example: if relation is in 2<sup>nd</sup> normal form, convert it into 3<sup>rd</sup> normal form.)

Student				
Student-ID	Student-Name	Father-Name	City	Hobby

Answer ( Please click here to Add Answer )

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

Create a unique index named 'IndexNum' on the 'CustName' column of the table 'Customer'.

Answer ( Please click here to Add Answer )

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Question No : 48 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.

- In Recovery Procedure, the transactions which have begin and an abort entry are Redone.

Answer ( Please click here to Add Answer )

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

Student-Record (STU\_ID, STU\_NAME, SEM\_NO, TOTAL\_SEM\_MARKS)

Write a SQL query on Student-Record table to find the total number of students that have Total marks higher than the average marks in class.

Answer ( Please click here to Add Answer )

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

Column 1	Column 2
1 - Log File	A - Direct Access File Organization
2 - Indexed Sequential	B - Double File Access
3 - Index	C - Transaction File
4 - (Index + Data)	D - Unique Key

Answer ( Please click here to Add Answer )

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

Analyze the scenario given below and answer the following questions?

- ADNAN is an employee of a University named "virtual university of Pakistan". He joined the IT department of VU in September 10<sup>th</sup> 2008. Now he has three years experience. He has many hobbies.

0. Identify one simple attribute?

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

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

Dead Lock is a serious threat for the concurrent transactions: Shortly explain the approach, which is used to detect the Dead Locks by DBMS.

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

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