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Database Design Solved MCQs- Part 2

MCQs

Multiple Choice Questions

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The	RDBMS terminology for a row is
0	Tuple
0	Relation
0	Attribute
0	Degree
A D	BMS query language is designed to
0	Support end users who use English-like commands
O	Support in the development of complex applications software
O	Specify the structure of a database
0	All of the above
In S	QL, testing whether a subquery is empty is done using
0	Distinct
0	Unique
0	Null
0	Exists
Rela	ations produced from an E-R model will always be
0	First normal form
0	Second normal form

Third normal form

0	Fourth normal form
_	
The	e database schema is written in
0	HLL
0	DML
0	DDL
0	DCL
	entity set that does not have sufficient attributes to form a primary is a
0	Strong entity set
\circ	weak entity set
О	Simple entity set
0	Primary entity set
	ich level of Abstraction describes what data are stored in the abase?
\circ	Physical level
\circ	View level
0	Abstraction level
0	Logical level
 Wh	ich of the following is a low level operator?
0	Insert

\circ	Update
\circ	Delete
0	Directory
_	
	nich of the following statements is true, when structure of database with 20 records is modified
0	? EOF () Prints T
О	? BOF () Prints F
O	? BOF () Prints T
0	? EOF () Prints F
If d	lata are stored sequentially on a magnetic tape,they are ideal for
\circ	On line application
0	Batch processing application
О	Spreadsheet application
0	Decision making application
	e result of the UNION operation between R1 and R2 is a relation at includes
0	All the tuples of R1
\circ	All the tuples of R2
0	All the tuples of R1 and R2
О	All the tuples of R1 and R2 which have common columns
_	

The method in which records are physically stored in a specified

ord	order according to a key field in each record is	
0	Hash	
0	Direct	
0	Sequential	
O	All of the above	
The	e default level of consistency in SQL is	
0	Repeatable read	
0	Read committed	
\circ	Read uncommitted	
0	Serializable	
(i) [(ii) (iii) (iv) (v) (dictive model. Data set Information set Input set Process set Output set Test set	
0	(i), (ii) and (iv)	
0	(ii), (iv) and (v)	
0	(i), (v) and (vi)	
0	(ii), (iii) and (v)	
ope	ich of the following is not a consequence of concurrent erations?	
\circ	Lost update problem	

0	Update anomaly
О	Unrepeatable read
0	Dirty read
Dat	ta security threats include
O	Privacy invasion
О	Hardware failure
С	Fraudulent manipulation of data
C	Encryption and decryption
ıne	e relational model feature is that there
O	Is no need for primary key data
С	Is much more data independence than some other database models.
О	Are explicit relationships among records.
0	Are tables with many dimensions
	ack of normalization can lead to which one of the following
0	Incortion problems
0	Insertion problems Deadlock
0	Lost updates
0	Deferred updates
_	_

Assume transaction A holds a shared lock R. If transaction B also

req	requests for a shared lock on R.	
0	It will result in a deadlock situation.	
O	It will immediately be rejected.	
0	It will immediately be granted.	
0	It will be granted as soon as it is released by A.	
inc ma	Itree used as an index for a large database table has four levels luding the root node. If a new is key inserted in this index ,then the ximum number of nodes that could be newly created in the ocess are	
\circ	5	
\circ	4	
\circ	3	
О	2	
Wh	nat deletes the entire file except the file structure ?	
0	ERASE	
0	DELETE	
O	ZAP	
\circ	PACK	
	e operation which is not considered a basic operation of relational ebra is	
О	Join	
O	Selection	
0	Union	

0	Cross product
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AC	lata model is a collection of conceptual tools for describing
О	Data and data relationships
О	Data semantics and consistency constraints
О	Data,data relationship,data semantics and consistency constraints
0	None of the above
Tw	o phase protocol in a database management is
0	A concurrency mechanism that is not deadlock free
О	A recovery protocol used for restoring a database after a crash
О	Any update to the system log done in two phases
0	Not effective in database
	ta item characteristics that are important in data management lude
О	Width
О	Language
O	Spelling
0	All of these
	nich diagram provides a formal graphic notation for modelling jects, classes and their relationships to one another ?
0	Object diagram

O	Class diagram
0	Instance diagram
C	Analysis diagram
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Sp	ecialization is process.
0	top-down
О	bottom up
0	both (A) and (B)
0	none of these
	e distinguishable parts of a record are called
О	Data
О	Files
О	Fields
0	All of these
On	e solution to the multivalued dependency constraint problem is to
O	Split the relation into two relations, each with a single theme
О	Change the theme
О	Create a new theme
0	Add a composite key
A t	able joined with itself is called

0	Self Join
0	Outer Join
0	Equi Join
_	
The	e view of total database content is
0	Conceptual view
О	Internal view
О	External view
0	Physical View
	A hashed file A sequential file
0 0	BC stands for Object Database Connectivity Oral Database Connectivity Oracle Database Connectivity
0	Open Database Connectivity

Which of the following is the recovery management technique in

DDBMS? 2PC (Two Phase Commit) Backup Immediate update All of the above Which of the following is an optimistic concurrency control method? Validation based \circ Time stamp ordering Lock-based \circ None of these Which allocation scheme would work best for a file system implemented on a device that can only be accessed sequentially,a tape driver, for instance? Contiguous allocation \circ Non contiguous allocation \circ Indexed allocation \circ None of the above A form can be used to Modify records Delete records Format printed output All of these

A data mart contain Summarized data De normalised data Aggregate departmental data All of these The concept of locking can be used to solve the problem of Deadlock Lost update Inconsistent All of the above **Data integrity control** Is used to set upper and lower limits on numeric data Requires the use of passwords to prohibit unauthorized access to the Has the data dictionary keep the date and time of last access last back-up, and most recent modification for all files All of the above **Every BCNF decomposition is** Dependency preserving Not dependency preserving \circ Need be dependency preserving None of these

Wh	Which of the following is the result of a SELECT statement?	
0	TRIGGER	
0	INDEX	
\circ	TABLE	
0	None of these	
Wh	nich of the following is another name for weak entity?	
0	Child	
\circ	Owner	
\circ	Dominant	
\circ	All of the above	
Dat	ta independency in DBMS is known as Data modeling Data hiding	
O	Data capturing	
0	Data consistency	
_		
Wh	ich command is the fastest among the following ?	
0	COPY TO <new file=""></new>	
0	COPY STRUCTURE TO <new file=""></new>	
0	COPY FILE <file 1=""> <file 2=""></file></file>	

COPY TO MFILE-DAT DELIMITED

What is a relationship called when it is maintained between two entities?	
0	Unary
0	Binary
О	Ternary
0	Quaternary
	ich normal form is considered adequate for relational database sign?
0	2NF
0	3NF
О	4NF
0	BCNF
	composition help in eliminating some of the problems of bad
0	Redundancy
0	Inconsistencies
0	Anomalies
0	All of the above
	ich possibility among the following is invalid in case of data flow gram?

A process having inbound data flows more than outbound data flows

- A data flow between two processes
- A data flow between the data stores
- A data store having more than one inbound data flows

Which of the following concurrency control schemes is not based on the serializability property?

- Two phase locking
- Graph-based locking
- Time-stamp based locking
- None of these