C2_QUIZ
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* Required
The space overhead in dynamic hashing is than that of static hashing
O More
Less
C Equal
None of the mentioned
Clear selection
If a relation of n attributes is having only one candidate key then the number of possible super keys
O 2^n
② 2^(n-1)
O 2^n -1
O 2^n + 1
Clear selection

	A index is the one which satisfies all the columns requested in the query without performing further lookup into the clustered index?	
Clustered		
Non Clustered	I	
Covering		
B-Tree		
	Clear selection	
Find Highest Nor	mal Form of Given Relation. R(ABCDE) {ABD->C,BC->D,CD->E}	
O 1NF		
O 2NF		
3NF		
BCNF		
	Clear selection	
If every Candida	te key of R is Simple Candidate Key then Realtion R?	
In 1NF but ma	y not in 2NF	
In 2NF but ma	y not in 3NF	
3NF may not i	n BCNF	
BCNF		
	Clear selection	

R(ABC) F:{AB->C,C->A}. candidate key: AB and BC. The relation is in
1NF
O 2NF
○ 3NF
BCNF
Clear selection
A table has fields FI, F2, F3, F4, F5 with the following functional dependencies F1 \rightarrow F3 F2 \rightarrow F4 (F1 . F2) \rightarrow F5 In terms of Normalization, this table is in *
1NF
O 2NF
○ 3NF
O NONE
The schema of a relation employee included an attribute children whose domain elements are sets of names. Then what is the type of attribute children in this relation?
○ Single valued
Composite
Multivalued
O Derived
Clear selection

For a Person entity, we have age and dateOfBirth attribute assattribute age is	sociated with it. The
Composite	
Multivalued	
Derived	
Single-Valued	
	Clear selection
Double line in ER Diagram represents :	
Weak entity set	
O Derived Attribute	
Partial Participation of an entity set	
Total participation of an Entity set	
	Clear selection

What is the type of decomposition described in the given image IDsalary name street city 57766 Kim Main Perryridge 75000 98776 Kim North Hampton 67000 employee city salary IDname name street 57766 Kim Kim Main Perryridge 75000 98776 Kim Kim North Hampton 67000 **Dependency Preserving** Lossless Lossy Not a proper decomposition Clear selection on the attribute A of relation r consists of one bitmap for each value that A can take. Bitmap index **Bitmap** Index Array Clear selection

In which of the following, a separate schema is created consisting of that attribute and the primary key of the entity set. *
A many-to-many relationship set
A multivalued attribute of an entity set
A one-to-many relationship set
None of the above
To identify the deleted records we use the
Existence bitmap
Current bitmap
Final bitmap
O Deleted bitmap
Clear selection
In ordered indices the file containing the records is sequentially ordered, a is an index whose search key also defines the sequential order of the file.
Clustered index
Structured index
O Unstructured index
Non clustered index
Clear selection

In a index, an index entry appears for only some of the search-key values.
O Dense
Sparse
○ Straight
Continuous
Clear selection
What is NOT true about index?
Indexes should not be used on columns that contain a high number of NULL values.
O Indexes are special lookup tables that can be used by the database search engine to speed up data updates.
O Implicit indexes are indexes that are automatically created by the database server when an object is created.
Indexes take memory slots which are located on the disk.
Five node splitting operations occurred when an entry is inserted into a B-tree. Then how many nodes are written?
11
O 7
O 14
O 13
Clear selection

Out of the following options, select the correct command for CREATING an index?
CREATE INDEX index_name ON table_name;
CREATE INDEX index_name ON database_name;
INSERT INDEX index_name ON table_name;
INSERT INDEX index_name ON database_name;
Clear selection
which of the following is TRUE ?
BCNF with Dependency preservation is always possible.
A relation with only two attributes is in BCNF.
No relation can be in both 3NF and BCNF.
If every attribute of relation R is Prime attribute then R is always in BCNF.
Clear selection
The form of dynamic hashing that avoids the additional level of indirection is called as
Linear hashing
Static hashing
O Directive hashing
O Indirective hashing
Clear selection

Bitmap indices are a specialized type of index designed for easy querying on		
O Bit values		
O Binary digits		
Multiple keys		
O Single keys		
	Clear selection	
Which of the following is true?		
B + tree allows only the rapid random access		
B + tree allows only the rapid sequential access		
B + tree allows rapid random access as well as rapid sequential acc	ess	
B + tree allows rapid random access and slower sequential access		
	Clear selection	
Out of the following options, select the correct command for DF index in SQL?	ROPPING an	
DROP INDEX index_name table_name;		
DELETE INDEX index_name;		
DROP INDEX index_name;		
DROP INDEX table_name index_name;		
	Clear selection	

State True or False. There is always a decomposition into Boyce-codd normal form that is lossless and dependency preserving. *
☐ True
False
A time period during which database fact is valid is called?
O Interval Time
Available Time
Acquired Time
Valid Time
Clear selection
In a relational data model, which one of the following statements is TRUE?
Relation with 2 attributes always in BCNF
If all attributes of a relation are prime attributes, then the relation is in BCNF
BCNF decompositions preserve functional dependencies.
Every relation has at least one non-prime attribute.
Clear selection

...

Consider the following implications relating to functional and multivalued dependencies given below, which may or may not be correct.

C2_QUIZ

- i. if $A \to \to B$ and $A \to \to C$ then $A \to BC$
- ii. if $A \to B$ and $A \to C$ then $A \to \to BC$
- iii. if $A \to \to BC$ and $A \to B$ then $A \to C$
- iv. if A o BC and A o B then A o o C

Exactly how many of the above implications are valid?

- \bigcirc
- \bigcirc
- \bigcirc 2
- \bigcirc 3

Which of these forms has a relation that possesses the data and information about every individual entity? *

- O 5NF
- 4NF
- O 3NF
- O 2NF

What is the maximum number of keys that a B+ -tree of order 3 and of height 3 have?	
O 3	
O 80	
O 27	
26	
Clear selection	n

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