

COMP_R16_V_CSC502_QP_Section1

* Required

Q1. ALL MCQ QUESTIONS ARE COMPULSORY IN THIS SECTION. Each Question carry 2 Marks.

The physical storage structure or device could be changed without affecting the conceptual schema, this is known as _____ *

- ☐ External data independence
- ☒ Physical data Independence
- ☐ View data independence
- ☐ Logical data Independence

A data dictionary is a repository that manages _____ *

- ☒ Metadata
- ☐ Log
- ☐ Schema
- ☐ Memory



If you want to maintain and store information about your car insurance company, a car would be considered a(n) ____ *

- ☐ Relation
- ☒ Entity
- ☐ Attribute
- ☐ Instance

The number of entities to which another entity can be associated via a relationship set is expressed as: *

- ☐ Attribute
- ☒ Cardinality
- ☐ Schema
- ☐ Entity

The attribute Retirement_date is calculated from DATE_OF_JOINING. The attribute Retirement_date is *

- ☐ Single Valued
- ☒ Derived
- ☐ Composite
- ☐ Multivalued



The _____ operation, allows us to find set of all common tuples that are belonging to both Relation R and Relation S. *

- ☐ Set difference
- ☐ Union
- ☒ Set Intersection
- ☐ Join

The type of operation which extends the Projection operation by allowing functions of attributes to be included in the projection list. *

- ☐ Join
- ☐ Projection
- ☐ Union
- ☒ Generalized Projection

The operation which produces a relation $R(X)$ that includes all tuples $t[x]$ in $R_1(Z)$ that appears in R_1 in combination with every tuple from $R_2(Y)$. *

- ☐ Set difference
- ☐ Join
- ☒ Cartesian Product
- ☐ Set division



The Join operation in which it keeps every tuple in first or left relation R if no matching tuple is found in S, then the attributes of S in join result filled with NULL values *

- ☐ Right Outer Join
- ☐ Outer Join
- ☒ Left Outer join
- ☐ Full Join

In SQL which command is used to add new column in existing table ? *

- ☐ Create
- ☐ Record
- ☐ Insert
- ☒ Alter

Consider the following relation Movies (theater, address, capacity) Which of the options will be needed at the end of the SQL query : SELECT P1.address FROM movies P1 such that it always finds the addresses of theaters with maximum capacity? *

- ☒ WHERE P1.capacity > = All (select P2. capacity from Movies P2)
- ☐ WHERE P1.capacity > Any (select max (P2. capacity) from Movies P2)
- ☐ WHERE P1.capacity > All (select max (P2. capacity) from Movies P2)
- ☐ WHERE P1.capacity > = Any (select P2. capacity from Movies P2)



The output of SQL statement `SELECT SUBSTR('ABFJRTSKIL',6) FROM Schema;` *

- ☐ RTSKIL
- ☐ KIL
- ☒ TSKIL
- ☐ SKIL

In SQL , the View command is declared as: *

- ☒ Create or replace view V as <query expression>;
- ☐ define view V as <query expression>;
- ☐ define view V like <query expression>;
- ☐ Create V as <query expression>

When a non key attribute depends on another non key attribute, it is called *

- ☐ Functional Dependency
- ☐ Automicity
- ☒ Transitive dependency
- ☐ Partial dependency



2NF is *

- ☒ 1NF and every non-key attribute is fully functionally dependent on the entire primary key
- ☐ only atomic attributes and primary key is defined
- ☐ every non-key attribute is fully functionally dependent on the entire primary key
- ☐ No transitive dependencies

If a transaction has obtained a _____ lock, it can read but cannot write on the item *

- ☐ Exclusive Mode
- ☒ Shared Mode
- ☐ Read only mode
- ☐ Write only mode

Deadlocks are possible only when one of the transactions wants to obtain a(n) _____ lock on a data item *

- ☐ Complete
- ☐ Shared
- ☐ Binary
- ☒ Exclusive



Which of the following concurrency control protocols ensure both conflict serializability and freedom from deadlock? I. 2-phase locking II. Time-stamp ordering *

- ☐ Neither I and II
- ☐ I only
- ☐ Both I and II
- ☒ II only

If a schedule S can be transformed into a schedule S' by a series of swaps of non-conflicting instructions, then S and S' are *

- ☒ Conflict Equivalent
- ☐ Non-Conflict Equivalent
- ☐ Equivalent
- ☐ Strict

If several concurrent transactions are executed over the same data set and the second transaction updates the database before the first transaction is finished, the ____ property is violated and the database is no longer consistent. *

- ☒ Isolation
- ☐ Consistency
- ☐ Durability
- ☐ Atomicity

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