DATABASE -2

Total points   24/40   ?

Marks :40 , Time: 1 hr

Name *

Amol Gavit

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250240320013

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✓ An attribute or combination of attributes in one table whose values must   1/1
either match the primary key in another table or be null is called _____.

○ Secondary Key

○ Super key

○ Candidate Key

◉ Foreign Key   ✓

✓   A transaction state changes from active to_____, after the transaction has 1/1
been rolled back and the database restored to its state prior to the start of
the transaction.

○ a. Partially committed

○ b. Committed

⦿ c. Aborted   ✓

○ d. Failed

✓ How is specialization denoted in an ER Diagram?   1/1

⦿ a. Triangle labeled IS A   ✓

○ b. Rectangle labeled IS A

○ c. Rectangle Labeled HAS A

○ d. Triangle labeled HAS A

✕   What stores the metadata about the structure of the database, in particular 0/1
the schema of the database?

○   a. Indices

◉   b. Database log   ✕

○   c. Data files

○   d. Data Dictionary

Correct answer

◉   d. Data Dictionary

✓   What is a schedule for a set of transactions?   1/1

○   a. It consists of all instructions of those transactions.

○   b. It preserve the order in which the instructions appear in each individual
transaction.

◉   c. Both a and b   ✓

○   d. None of these

✓ Which is the correct SQL syntax from the following to create a PRIMARY   1/1
   KEY constraint on existing table " EMPLOYEE " on " EMPID " column and
   currently column does not contain any value?

○ a. Alter table EMPLOYEE Add Constraint PK - EMPID Primary Key, EMPID;

○ b. Update table EMPLOYEE Add Constraint PK - EMPID Primary Key (EMPID);

⦿ c. Alter table EMPLOYEE Add Constraint PK - EMPID Primary Key (EMPID);   ✓

○ d. Alter table EMPLOYEE Add Constraint PK - EMPID Primary Key, (EMPID);

✕ What information is not provided by a data dictionary?   0/1

⦿ a. How data is used   ✕

○ b. Where data is located

○ c. Size of storage disk

○ d. Who owns or is responsible for data

Correct answer

⦿ c. Size of storage disk

✗   How can a tuple be divided in a relational schema?   0/1

○   a. Domains

◉   b. Queries   ✗

○   c. Relations

○   d. Joins

Correct answer

◉   a. Domains

✗   0/1

A relation is in this form if it is in BCNF and has no multivalued
dependenciesA.

○   second normal form.

◉   third normal form.   ✗

○   fourth normal form.

○   domain/key normal form.

Correct answer

◉   fourth normal form.

✓ Which of the following is a group of one or more attributes that uniquely identifies a row? 1/1

⦿ A. Key ✓

◯ B. Determinant

◯ C. Tuple

◯ D. Relation

✓ 1/1

In the relational model, relationships between relations or tables are created by using:

◯ A.composite keys.

◯ B. determinants.

◯ C. candidate keys.

⦿ D. foreign keys. ✓

✓ Which of the following is not a restriction for a table to be a relation? 1/1

◯ A. The cells of the table must contain a single value.

◯ B. All of the entries in any column must be of the same kind.

⦿ C. The columns must be ordered. ✓

◯ D. No two rows in a table may be identical.

✗ A relation in this form is free of all modification anomalies.   0/1

○ A. First normal form

○ B. Second normal form

◉ C. Third normal form   ✗

○ D. Domain/key normal form

Correct answer

◉ D. Domain/key normal form

✓ A tuple is a(n):   1/1

○ A. column of a table.

○ B. two dimensional table.

◉ C. row of a table.   ✓

○ D. key of a table.

✓ Which of the following indicates the maximum number of entities that can 1/1
   be involved in a relationship?

○ A. Minimum cardinality

◉ B. Maximum cardinality   ✓

○ C. ERD

○ D. Greater Entity Count (GEC)

✕   Which type of entity cannot exist in the database unless another type of   0/1
     entity also exists in the database, but does not require that the identifier of
     that other entity be included as part of its own identifier?

○   A. Weak entity

◉   B. Strong entity   ✕

○   C. ID-dependent entity

○   D. ID- independent entity

Correct answer

◉   A. Weak entity

✕   Which of the following refers to something that can be identified in the   0/1
     users' work environment, something that the users want to track?

○   A. Entity

◉   B. Attribute   ✕

○   C. Identifier

○   D. Relationship

Correct answer

◉   A. Entity

✕   The DBMS acts as an interface between what two components of an   0/1
    enterprise-class database system?

   ○   A. Database application and the database

   ○   B. Data and the database

   ◉   C. The user and the database application   ✕

   ○   D. Database application and SQL

Correct answer

   ◉   A. Database application and the database

✓   1/1

A DBMS that combines a DBMS and an application generator is _____ .

   ○   A. Microsoft's SQL Server

   ◉   B. Microsoft's Access   ✓

   ○   C. IBM's DB2

   ○   D. Oracle Corporation's Oracle

✓   1/1

You have run an SQL statement that asked the DBMS to display data in a
table named USER_TABLES. The results include columns of data labeled
"TableName," "NumberOfColumns" and "PrimaryKey." You are looking at
_____

○ A. user data.

◉ B. metadata   ✓

○ C. A report

○ D. indexes

✓   which of the following is a correct SQL query   1/1

○ A) Select * from emp where eid=100 , ename='a'

○ B) Select * from emp where eid=100 ename='a'

○ C) Select * where eid=100 and ename='a' from emp

◉ D) Select * from emp where eid=100 and ename='a'   ✓

?

✕   How many null values can a unique key column have in MySQL   0/1

○ A) Multiple

○ B) 0

◉ C) 1   ✕

○ D) 2

Correct answer

◉ A) Multiple

✓   which of the following set operators are supported by MySQL   1/1

◉ A) Union   ✓

○ B) Intersect

○ C) Minus

○ D) Except

✕   4NF is designed to cope with: 0/1

○ A) Transitive dependency

◉ B) Join dependency   ✕

○ C) Multi valued dependency

○ D) None of these

Correct answer

◉ C) Multi valued dependency

✕   In a relational database a referential integrity constraint can be specified   0/1
    with the help of

◉ A) primary key   ✕

○ B) foreign key

○ C) secondary key

○ D) none of the above

Correct answer

◉ B) foreign key

✓   A Function that has no partial dependencies is in   1/1

○ A) 3NF

◉ B) 2NF   ✓

○ C) 4NF

○ D) BCNF

✗   If every non-key attribute is functionally dependent on the entire primary   0/1
key, then the relation will be in:

○ A) 3NF

○ B) 2NF

◉ C) 4NF   ✗

○ D) BCNF

Correct answer

◉ B) 2NF

✓   Third normal form is based on the concept of   1/1

○ A) Closure Dependency

◉ B) Transitive Dependency   ✓

○ C) Normal Dependency

○ D) Functional Dependency

✗   **What SQL clause is used to restrict the rows returned by a query?**   0/1

○ a) AND

○ b) WHERE

◉ c) Group   ✗

○ d) FROM

Correct answer

◉ b) WHERE

✓   **The USE command?**   1/1

○ a) Is used to load code from another file

○ b) Has been deprecated and should be avoided for security reasons

○ c) Is a pseudonym for the SELECT command

◉ d) Should be used to choose the database you want to use once you've
connected to MySQL   ✓

✓   **A subquery in an SQL SELECT statement is enclosed in:**   1/1

○ A. braces -- {...}.

○ B. CAPITAL LETTERS.

◉ C. parenthesis -- (...) .   ✓

○ D. brackets -- [...].

✗   Find the SQL statement below that is equal to the following: SELECT NAME 0/1
FROM CUSTOMER WHERE STATE =
'VA';

○   A. SELECT NAME IN CUSTOMER WHERE STATE IN ('VA');

⦿   B. SELECT NAME IN CUSTOMER WHERE STATE = 'VA';   ✗

○   C. SELECT NAME IN CUSTOMER WHERE STATE = 'V';

○   D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

Correct answer

⦿   D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

✓   The EXISTS keyword will be true if   1/1

⦿   a) Any row in the subquery meets the condition only.   ✓

○   b) All rows in the subquery fail the condition only.

○   c) Both of these two conditions are met.

○   d) Neither of these two conditions is met.

✓   Which of the following can be addressed by enforcing a referential integrity 1/1
constraint?

○   a) All phone numbers must include the area code

○   b) Certain fields are required (such as the email address, or phone number) before
the record is accepted

◉   c) Information on the customer must be known before anything can be sold to   ✓
that customer

○   d) When entering an order quantity, the user must input a number and not some
text (i.e., 12 rather than 'a dozen')

✓   The relationship between DEPARTMENT and EMPLOYEE is a: 1/1

○   a) One-to-one relationship

○   b) Many-to-many relationship

◉   c) One-to-many relationship   ✓

○   d) Many-to-one relationship

✓   Which of the following query is correct for using comparison operators in   1/1
SQL?

○   A) SELECT sname, coursename FROM studentinfo WHERE age>50 and <80;

◉   B) SELECT sname, coursename FROM studentinfo WHERE age>50 and age <80; ✓

○   C) SELECT sname, coursename FROM studentinfo WHERE age>50 and WHERE
age<80;

○   D) None of the above

✓ How to Delete records from studentinfo table with name of student 'Hari   1/1
Prasad'?

○ A) DELETE FROM TABLE studentinfo WHERE sname='Hari Prasad';

◉ B) DELETE FROM studentinfo WHERE sname='Hari Prasad';   ✓

○ C) DELETE FROM studentinfo WHERE COLUMN sname='Hari Prasad';

○ D) DELETE FROM studentinfo WHERE sname LIKE 'Hari Prasad';

✗   Which of the following isolation levels doesn't allow non-repeatable   0/1
reads?

○ A) Repeatable Reads

◉ B) Read Committed   ✗

○ C) both

○ D) none

Correct answer

◉ C) both

✕   Which of the following isolation levels doesn't allow phantom reads?   0/1

○ A) Repeatable Reads

◉ B) Read uncommitted   ✕

○ C) Read Committed

○ D) Serializable

Correct answer

◉ D) Serializable

✓   How to select all data from studentinfo table starting the name from letter 1/1
    'r'?

◉ A) SELECT * FROM studentinfo WHERE sname LIKE 'r%';   ✓

○ B) SELECT * FROM studentinfo WHERE sname LIKE '%r%';

○ C) SELECT * FROM studentinfo WHERE sname LIKE '%r';

○ D) SELECT * FROM studentinfo WHERE sname LIKE '_r%';

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