DATABASE-1

Marks :40 , Time: 1 hr

Total points   15/42

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✗   **Which is not the relational algebra operator?**

○ Set difference

◉ Cartesian product

○ Rename

○ Join

Correct answer

◉ Set difference

✕   Which of the following is generally used for performing tasks like creating 1
the structure of the relations, deleting relation?

○ DML(Data Manipulation Language)

○ Query

○ Relational Schema

○ DDL(Data Definition Language)

Correct answer

◉ DDL(Data Definition Language)

✕   Which of the following provides the ability to query information from the 1
database and insert tuples into, delete tuples from, and modify tuples in
the database?

○ DML(Data Manipulation Language)

◉ DDL(Data Definition Language)

○ Query

○ Relational Schema

Correct answer

◉ DML(Data Manipulation Language)

✓ The given Query can also be replaced with_____:

SELECT name, course_id
FROM instructor, teaches
WHERE instructor_ID= teaches_ID;

○ Select name,course_id from teaches,instructor where instructor_id=course_id;

◉ Select name, course_id from instructor natural join teaches;

○ Select name, course_id from instructor;

○ Select course_id from instructor join teaches;

✗ Which one of the following given statements possibly contains the error?

◉ select * from emp where empid = 10003;

○ select empid from emp where empid = 10006;

○ select empid from emp;

○ select empid where empid = 1009 and Lastname = 'GELLER';

Correct answer

◉ select empid where empid = 1009 and Lastname = 'GELLER';

✕　In the below-given Query, which of the following can be placed in the Query's blank portion to select the "dept_name" that also contains Computer Science as its ending string?

1

```
SELECT emp_name
FROM department
WHERE dept_name LIKE ' _____ Computer Science';
```

◉　&

○　_

○　%

○　$

Correct answer

◉　%

✕　What do you mean by one to many relationships?

1

○　One class may have many teachers

○　One teacher can have many classes

◉　Many classes may have many teachers

○　Many teachers may have many classes

Correct answer

◉　One teacher can have many classes

✕   In the following Query, which of the following can be placed in the Query's   1
blank portion to display the salary from highest to lowest amount, and
sorting the employs name alphabetically?

SELECT *
FROM instructor
ORDER BY salary ____, name __;

○ Ascending, Descending

◉ Asc, Desc

○ Desc, Asc

○ All of the above

Correct answer

◉ Desc, Asc

✓   A Database Management System is a type of _____software.   1

◉ It is a type of system software

○ It is a kind of application software

○ It is a kind of general software

○ Both A and C

✓ The term "NTFS" refers to which one of the following?   1

  ⦿ New Technology File System

  ○ New Tree File System

  ○ New Table type File System

  ○ Both A and C

✓ A huge collection of the information or data accumulated form several   1
  different sources is known as _____:

  ○ Data Management

  ○ Data Mining

  ⦿ Data Warehouse

  ○ Both B and C

✓ Which of the following can be used to extract or filter the data &   1
  information from the data warehouse?

  ○ Data redundancy

  ○ Data recovery tool

  ⦿ Data mining

  ○ Both B and C

✕   Which one of the following refers to the copies of the same data (or
information) occupying the memory space at multiple places.

⦿ Data Repository

◯ Data Inconsistency

◯ Data Mining

◯ Data Redundancy

Correct answer

⦿ Data Redundancy

✓   Which one of the following refers to the "data about data"?

◯ Directory

◯ Sub Data

◯ Warehouse

⦿ Meta Data

✓   Which of the following refers to the level of data abstraction that describes
exactly how the data actually stored?

◯ Conceptual Level

⦿ Physical Level

◯ File Level

◯ Logical Level

✕   In general, a file is basically a collection of all related_____.

○ Rows & Columns

◉ Fields

○ Database

○ Records

Correct answer

◉ Records

✕   The term "Data" refers to:

○ The electronic representation of the information(or data)

○ Basic information

○ Row Facts and figures

◉ Both A and C

Correct answer

◉ Row Facts and figures

✗   Which of the following refers to the number of tuples in a relation?   1

○ Entity

◉ Column

○ Cardinality

○ None of the above

Correct answer

◉ Cardinality

✗   Which one of the following is a type of Data Manipulation Command?   1

○ Create

○ Alter

○ Delete

◉ All of the above

Correct answer

◉ Delete

✕   Which of the following is a top-down approach in which the entity's higher   1
level can be divided into two lower sub-entities?

○ Aggregation

○ Generalization

○ Specialization

◉ All of the above

Correct answer

◉ Specialization

✕   In which one of the following, the multiple lower entities are grouped (or   1
combined) together to form a single higher-level entity?

◉ Specialization

○ Generalization

○ Aggregation

○ None of the above

Correct answer

◉ Generalization

✓   In a relation database, every tuples divided into the fields are known as
the_____.   1

○ Queries

◉ Domains

○ Relations

○ All of the above

✗   Which of the following is used in the application programs to request data   1
from the database management system?

○ Data Manipulation language

○ Data Definition Language

○ Data Control Language

◉ All of the above

Correct answer

◉ Data Manipulation language

✓   Which one of the following command is used to delete the existing row in a   1
table?

◉ Delete

○ Update

○ Insert

○ None of the above

✕ Which of the following commands is used to save any transaction permanently into the database?

○ Commit

○ Rollback

◉ Savepoint

○ None of the above

Correct answer

◉ Commit

✓ Which one of the following commands is used to restore the database to the last committed state?

○ Savepoint

◉ Rollback

○ Commit

○ Both A & B

✗ The database management system can be considered as the collection of _____ 1
_____ that enables us to create and maintain the database.

○ Translators

○ Programs

◉ Keys

○ Language activity

Correct answer

◉ Programs

✗ Which of the following refers collection of the information stored in a 1
database at a specific time?

○ Independence

○ Instance of the database

◉ Schema

○ Data domain

Correct answer

◉ Instance of the database

✓ The term "Data independence" refers to____

○ Data is defined separately and not included in the programs

○ Programs are not dependent on the logical attributes of the data

○ Programs are not dependent on the physical attributes of the data

◉ Both B & C

✕ What is the relation calculus?

◉ It is a kind of procedural language

○ It is a non-procedural language

○ It is a high-level language

○ It is Data Definition language

Correct answer

◉ It is a non-procedural language

✕ Which one of the following refers to the total view of the database content

○ Conceptual view

◉ Physical view

○ Internal view

○ External view

Correct answer

◉ Conceptual view

✕ The architecture of a database can be viewed as the _____   1

○ One level

◉ Two-level

○ Three-level

○ Four level

Correct answer

◉ Three-level

✓ The Database Management Query language is generally designed for the ____   1

○ Support end-users who use English like commands

○ Specifying the structure of the database

○ Support in the development of the complex applications software

◉ All of the above

✓ Which of the following keys is generally used to represents the relationships between the tables?   1

○ Primary key

◉ Foreign key

○ Secondary key

○ None of the above

✕   A computer security protocol for logging-in can be considered as the
example of the _____ component of an information system.

◉ Data

◯ Software

◯ Procedure

◯ Hardware

Correct answer

◉ Procedure

✓   Which one of the following is commonly used to define the overall design
of the database?

◯ Application program

◯ Data definition language

◉ Schema

◯ Source code

✗   Which one of the following commands is used to modify a column inside 🔘1
table?

◯ Drop

◉ Update

◯ Alter

◯ Set

Correct answer

◉ Alter

✗   When a primary key is define in the table, DBMS automatically creates a 1
___ on a primary key column

◯ Unique index

◯ Sequence

◉ Trigger

◯ Synonym

Correct answer

◉ Unique index

✕   Which normal form is the partial dependency removed?

◉ First

◯ Second

◯ Third

◯ BCNF

Correct answer

◉ Second

✓   The problem caused by independent multivalued dependencies is eliminated in which of the normal form?

◯ 3NF

◯ BCNF

◉ 4NF

◯ 5NF

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