DATABASE-1

Total points   34/40   ?

Marks :40 , Time: 45 min

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✗ **Which is not the relational algebra operator?**   0/1

○ Set difference

○ Cartesian product

○ Rename

◉ Join   ✗

Correct answer

◉ Set difference

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

○ DML(Data Manipulation Language)

○ Query

○ Relational Schema

● DDL(Data Definition Language)   ✓

✓ Which of the following provides the ability to query information from the   1/1
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

✓ The given Query can also be replaced with_____: 1/1

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?   1/1

○ 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';   ✓

✓ In the below-given Query, which of the following can be placed in the   1/1
   Query's blank portion to select the "dept_name" that also contains
   Computer Science as its ending string?

SELECT emp_name

FROM department

WHERE dept_name LIKE '_____ Computer Science';

○ &

○ _

◉ %   ✓

○ $

✓ What do you mean by one to many relationships?   1/1

○ One class may have many teachers

◉ One teacher can have many classes   ✓

○ Many classes may have many teachers

○ Many teachers may have many classes

✓   In the following Query, which of the following can be placed in the Query's   1/1
     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

✕   A Database Management System is a type of _____software.   0/1

○ 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

Correct answer

◉ It is a type of system software

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

⦿ 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   1/1
   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 &   1/1
   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.   1/1

◯ Data Repository

◯ Data Inconsistency

◯ Data Mining

◉ Data Redundancy   ✓

✓ Which one of the following refers to the "data about data"?   1/1

◯ Directory

◯ Sub Data

◯ Warehouse

◉ Meta Data   ✓

✓ Which of the following refers to the level of data abstraction that describes 1/1 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_____.   1/1

○ Rows & Columns

○ Fields

○ Database

◉ Records   ✓

✓ The term "Data" refers to: 1/1

○ The electronic representation of the information(or data)

○ Basic information

◉ Row Facts and figures   ✓

○ Both A and C

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

○ Entity

○ Column

◉ Cardinality   ✓

○ None of the above

✗   Which one of the following is a type of Data Manipulation Command?   0/1

○ 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   1/1
    level can be divided into two lower sub-entities?

○ Aggregation

○ Generalization

◉ Specialization   ✓

○ All of the above

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

○ Specialization

◉ Generalization   ✓

○ Aggregation

○ None of the above

✕   In a relation database, every tuples divided into the fields are known as   0/1
the_____.

○ Queries

○ Domains

◉ Relations   ✕

○ All of the above

Correct answer

◉ Domains

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

◉ Data Manipulation language   ✓

○ Data Definition Language

○ Data Control Language

○ All of the above

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

◉ Delete   ✓

◯ Update

◯ Insert

◯ None of the above

✓ Which of the following commands is used to save any transaction   1/1
permanently into the database?

◉ Commit   ✓

◯ Rollback

◯ Savepoint

◯ None of the above

✓ Which one of the following commands is used to restore the database to   1/1
the last committed state?

◯ Savepoint

◉ Rollback   ✓

◯ Commit

◯ Both A & B

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

○ Translators

◉ Programs   ✓

○ Keys

○ Language activity

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

○ Independence

◉ Instance of the database   ✓

○ Schema

○ Data domain

✓ The term "Data independence" refers to____   1/1

○ 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?   1/1

○ It is a kind of procedural language

◉ It is a non-procedural language   ✓

○ It is a high-level language

○ It is Data Definition language

✓ Which one of the following refers to the total view of the database content? 1/1

◉ Conceptual view   ✓

○ Physical view

○ Internal view

○ External view

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

○ One level

○ Two-level

◉ Three-level   ✓

○ Four level

✕ **The Database Management Query language is generally designed for the** _____   0/1

◉ 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

Correct answer

◉ All of the above

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

◯ Primary key

◉ Foreign key   ✓

◯ Secondary key

◯ None of the above

✓ A computer security protocol for logging-in can be considered as the   1/1
example of the _____ component of an information system.

○ Data

○ Software

◉ Procedure   ✓

○ Hardware

✓ Which one of the following is commonly used to define the overall design   1/1
of the database?

○ Application program

○ Data definition language

◉ Schema   ✓

○ Source code

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

○ Drop

○ Update

◉ Alter   ✓

○ Set

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

◉ Unique index   ✓

○ Sequence

○ Trigger

○ Synonym

✓ Which normal form is the partial dependency removed?   1/1

○ First

◉ Second   ✓

○ Third

○ BCNF

✗ The problem caused by independent multivalued dependencies is   0/1
eliminated in which of the normal form?

◉ 3NF   ✗

○ BCNF

○ 4NF

○ 5NF

Correct answer

◉ 4NF

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