

DATABASE-1

Total points 26/40 

Marks :40 , Time: 45 min

Name *

Shreyas Bhatkar

12- DIGIT PRN *

240840520075



✗ 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 the structure of the relations, deleting relation? 1/1

- ☐ DML(Data Manipulation Language)
- ☐ Query
- ☐ Relational Schema
- ☒ DDL(Data Definition Language)

✓



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

☒ DML(Data Manipulation Language) ✓

☐ DDL(Data Definition Language)

☐ Query

☐ Relational Schema



✗ The given Query can also be replaced with_____:

0/1

```
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;

Correct answer

- ☒ Select name, course_id from instructor natural 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 Query's blank portion to select the "dept_name" that also contains Computer Science as its ending string?

0/1

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

- ☐ &
- ☐ -
- ☐ %
- ☒ \$

✗

Correct answer

- ☒ %



✓ 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?

0/1

- ☐ New Technology File System
- ☐ New Tree File System
- ☒ New Table type File System
- ☐ Both A and C

✗

Correct answer

- ☒ New Technology File System



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

- ☐ Data Management
- ☐ Data Mining
- ☒ Data Warehouse
- ☐ Both B and C



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

- ☐ 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 0/1 exactly how the data actually stored?

☒ Conceptual Level

✗

☐ Physical Level

☐ File Level

☐ Logical Level

Correct answer

☒ Physical Level



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

0/1

☒ Rows & Columns

✗

☐ Fields

☐ Database

☐ Records

Correct answer

☒ Records

✗ The term "Data" refers to:

0/1

☐ 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?

0/1

- ☐ Entity
- ☒ Column
- ☐ Cardinality
- ☐ None of the above

✗

Correct answer

- ☒ Cardinality

✗ 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 level can be divided into two lower sub-entities? 0/1

- ☒ Aggregation
- ☐ Generalization
- ☐ Specialization
- ☐ All of the above



Correct answer

- ☒ Specialization

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

- ☐ Specialization
- ☒ Generalization
- ☐ Aggregation
- ☐ None of the above



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

- ☐ Queries
- ☒ Domains
- ☐ Relations
- ☐ All of the above



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

- ☒ 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 table? 1/1

- ☒ Delete
- ☐ Update
- ☐ Insert
- ☐ None of the above



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

- ☒ Commit
- ☐ Rollback
- ☐ Savepoint
- ☐ None of the above



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

☐ 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 database at a specific time? 1/1

- ☐ 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?

0/1

- ☐ It is a kind of procedural language
- ☐ It is a non-procedural language
- ☒ It is a high-level language
- ☐ It is Data Definition language

✗

Correct answer

- ☒ It is a non-procedural 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 _____

1/1

- ☐ 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?

1/1

- ☐ 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.

1/1

- ☐ Data
- ☐ Software
- ☒ Procedure
- ☐ Hardware



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

- ☐ Application program
- ☐ Data definition language
- ☒ Schema
- ☐ Source code



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

- ☐ Drop
- ☐ Update
- ☒ Alter
- ☐ Set



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

- ☒ Unique index
- ☐ Sequence
- ☐ Trigger
- ☐ Synonym



✗ Which normal form is the partial dependency removed?

0/1

- ☐ First
- ☐ Second
- ☒ Third
- ☐ BCNF



Correct answer

- ☒ Second



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

0/1

☐ 3NF

☒ BCNF

☐ 4NF

☐ 5NF

✗

Correct answer

☒ 4NF

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