

Damietta University  
Faculty of Computers and Artificial  
Intelligence  
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Academic Year: 2021/2022  
Course Name: Database Systems (IS 221)  
Level 02  
Time Allowed: 60 min  
April 12, 2022

# Mid-term Exam

**Student name.....**

**ID** .....

**Answer the following questions:**

**1. Define the following terms:**

### A. Referential integrity constraint

is a foreign key value that should refer to a key value in a tuple or be wholly null

## B. SQL

is Structured query language used for creating , designing and manipulating databases

**2. Complete the following sentences:**

**A.** .....<sup>primary</sup> key is the candidate key that is selected to identify tuples uniquely within the relation.

DBMS(Database Management System)

**B. ....** is the software that manages and controls access to the database.

**Question 1: Choose the correct answers:**

**A.** If you were collecting and storing information about your online ordering company, customers would be considered a(n) .....

- a) Relation      ~~b) Entity~~  
c) Instance      d) Attribute

**B. ....** is the process of maximizing the differences between members of an entity by identifying their distinguishing characteristics.

- a) Generalization                      b) Union

c) Inheritance

~~d) Specialization~~

**C.** One of the following is not an advantages of the database approach:

- A. Increased sharing of data
- B. Increased productivity
- ~~C. Increased redundancy~~
- D. Increased concurrency

**D.** .....is an entity type that includes one or more distinct subgroupings of its occurrences, which require to be represented in a data model.

- A. Subclass
- B. Member
- ~~C. Superclass~~
- D. Regular

**E.** Which one of the following SQL statements is correct?

- ~~A. UPDATE table\_name SET attribute1 = 'new\_value1', attribute2= 'new\_value2' WHERE attribute1 = 'old\_value1';~~
- B. UPDATE table\_name SET attribute1= 'new\_value1' AND attribute2= 'new\_value2' WHERE attribute1 = 'old\_value1';
- C. UPDATE attribute1, attribute2 SET 'new\_value1', 'new\_value2' WHERE attribute 1 = 'old\_value1';
- D. UPDATE attribute1, attribute2 SET 'new\_value1' AND 'new\_value2' WHERE attribute 1 = 'old\_value1';