Name: Score: -	/
Quiz1Fa	all2018And2022

Based on the material from Week 1 and Week 2 -You have 30 minutes to complete this quiz.

You may only move forward, not backwards.

## Part 1

Match the term to an example of it (select the best pairing):

1. Data A. Laura's Address Book

B. A hospital (the doctors, the nurses, 2. Database

the beds, the equipment)

3. Mini-world C. MySQL or MSAccess

4. Database Management System D. March 19, 2014 (DBMS)

Answer Point Value: 2.0 points Answer Key: 1:D, 2:A, 3:B, 4:C

Match the following attribute terminology to an example of each.

1. Multivalued Attribute A. Phone Number (Cell, Home, Work)

B. Seat G4 (seat number given to a 2. Derived Attribute passenger taking a given flight)

C. 24 square metres (area of a 3. Composite Attribute rectangle where the width and height are also stored)

D. 250123456 (student number of a 4. Key Attribute Western Student)

E. 65 Compton Cres, London, Ontario 5. Relationship Attribute (street, city, prov)

Answer Point Value: 2.0 points Answer Key: 1:A, 2:C, 3:E, 4:D, 5:B

Assume we are designing an ER diagram for a student rental housing company. Which of the following would be represented as an ENTITY? (Select all that apply)  A. Student First Name
B. Rents
C. Landlord
D. Apartment
D. Apartment
Answer Point Value: 2.0 points Answer Key: C,D
Assume you have an entity called PERSON that has many attributes but only one multivalued attribute and that multivalued attribute is called LANGUAGESSPOKEN. If you map this entity to a relational model, how many tables will be created?  A. 1  B. 2
$^{ extstyle  e$
O. Depends also on the number of composite attributes
C E. Both C and D
Answer Point Value: 1.0 points Answer Key: B
Which of the following relationships has total participation on the RIGHT side of the relationship (reading from left to right)? Pick the best, most reasonable answer.  A. COUNTRY contains CITY
B. PERSON currently renting MOVIE
C. PAINTING painted by PERSON
D. PERSON rented MOVIE
Answer Point Value: 1.0 points

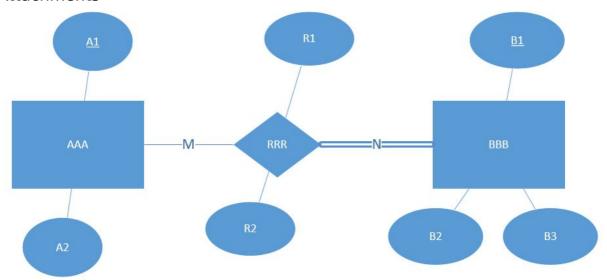
Answer Key: A

Which of the following is NOT a many to many relationship?  A. Actor performs in Movie	
B. Photographer takes Photograph	
C. Aunt has Niece	
D. Singer sings Song	
Answer Point Value: 1.0 points Answer Key: B	
Which of the following relationships contains a weak entity?  A. BOOK writtenby AUTHOR	
B. BOOK has CHAPTER	
C. BOOK publishedby PUBLISHER	
D. BOOK includedat BOOKWEBSITE	
Answer Point Value: 1.0 points Answer Key: B	
Which of the following represents a one to one relationship  A. CLASSROOM resides in SCHOOL	
B. TEACHER is principal of SCHOOL	
C. TEACHER teaches at SCHOOL	
D. STUDENT assigned to TEACHER	
Answer Point Value: 1.0 points	

Answer Key: B

Given the following diagram, which of the following correctly represents the way this ER diagram would map to a relational database?

## **Attachments**



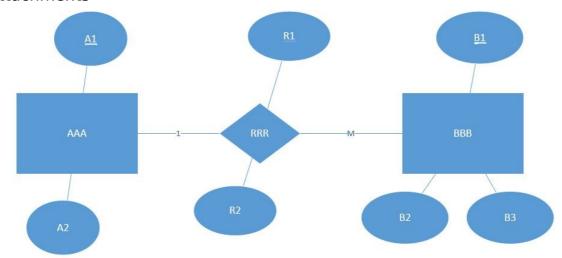
- A. 3 tables: the first table would have 2 attributes, the next table would have 4 attributes and the last table would have 3 attributes.
- B. 2 tables: one with 2 attributes and one with 6 attributes
- C. 3 tables: the first table would have 2 attributes, the next table would have 2 attributes and the last table would have 3 attributes.
- D. 2 tables: one with 4 attributes and one with 3 attributes

Answer Point Value: 1.0 points

Answer Key: A

Given the following diagram, once it is completely mapped to a relational database, how many attributes will the table representing Entity BBB contain?

## **Attachments**



- O A. 3
- C B. 4
- C. 6
- C D. 7
- E. None of the above

Answer Point Value: 1.0 points

Answer Key: C

As long as a foreign key is not part of the primary key for a relation (table), a database might allow it to be NULL.

True

False

Answer Point Value: 1.0 points

Answer Key: True

The speed and efficiency of the database is determined mainly at which level of
the 3 Schema Architecture?
C A. External Level
C B. Conceptual Level
C. Internal Level

Answer Point Value: 1.0 points Answer Key: C