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SECTION : "A"

DEPARTMENT : BS (SE)

PAPER : DATABASE

EXAM : MID TERM

SEMESTER : 4<sup>th</sup>

SUBMET TO : RIMSHIA KHAN

DATE : 22, April, 2020



ANSWER NO: 1

PART: 1

ID AND CELL Attribute Is

A Candidate Key.

PART: 2

DATA INTEGRITY:-

"Data integrity is the process of ensuring that data is accurate and consistent over its whole life cycle."

DATA REDUNDANCY:-

Data redundancy is a condition that can cause the same piece of data to be stored in multiple places of a database or a storage device.



## PART : 3

A multivalued attribute of an entity is an attribute that can have more than one value associated with the key of the entity.

**For-Example :-**

A large company could have many divisions, some of them possibly in different cities. In this case, division or division-name would be classified as a multivalued attribute of the company entity. The headquarters-address attribute of the company, on the other hand, would normally be a single-valued attribute.

## PART : 4

- Emphasizes the integration and sharing of data throughout the organization.
- Requires fundamental reorientation or shift through process, starting w/top management.
- Used typically access only those entities that are necessary to meet their job requirement, resulting in

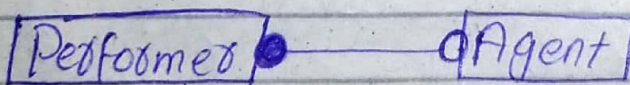


- in DB Scope that is easier to grasp.
- Enable ~~and~~ end users and app programmers to share data, and it enables data to be shared among multiple apps rather than propagated and stored in new files for every new application.
  - Also provide facilities for controlling data access, enforcing data integrity, managing concurrency control, and restoring a DB.

## PART: 5

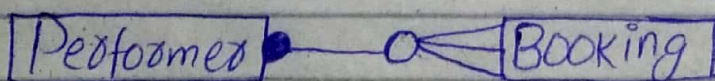
### MANDATORY ONE:-

It might be possible for agent to make bookings that do not involve performers.



### MANDATORY MANY:-

A Performers have one or more booking.

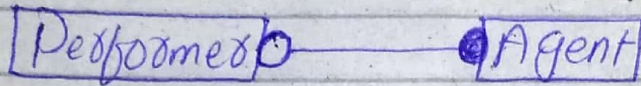


### OPTIONAL ONE:-

It might be



Possible for Performers to make booking themselves, without using with Agent.



### OPTIONAL MANY:-

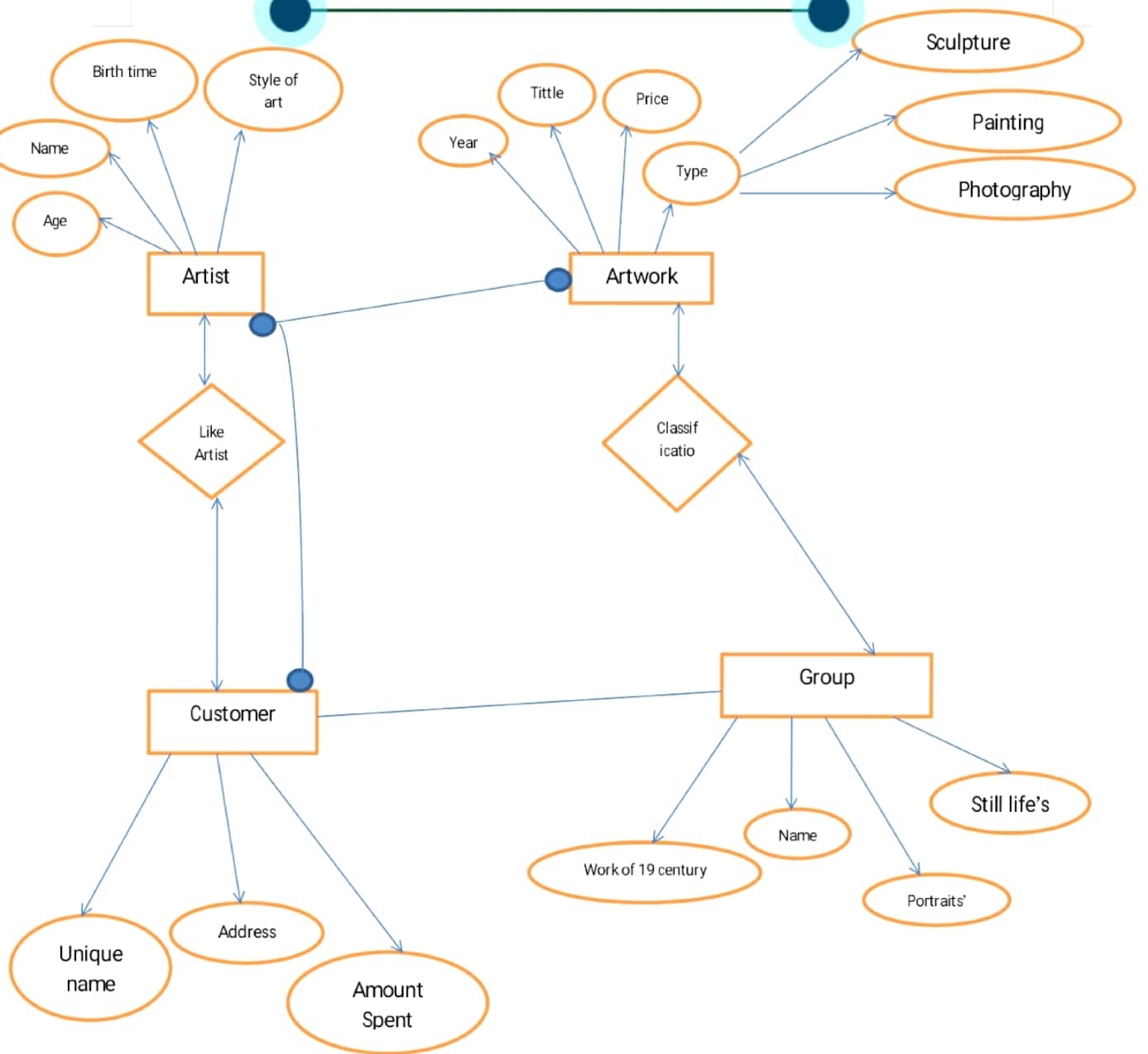
A Performer might have one or more bookings; each booking must involve one Performer.



### **PART: 6**

A shared corporate database must be accurate and available at all time. This requires that comprehensive procedures be developed and used for providing backup copies of data and for restoring database when damage occurs. These considerations have acquired increased urgency in today's security-conscious environment. A modern database management system, normally automates many more of the backup and recovery tasks than a file system.

Answer 2





# ANSWER NO : 3

Student	
PK	Student ID
	Student name
	Student address

Enrollment	
PK, FK	Student ID
PK, FK	Course ID

Course	
PK	Course ID
	Course no
	Section no

Seat	
PK	Seat no
FK	Seat Position
	Student ID

Class	
PK	Section no
PK	Course ID
	Class date & time
	num-registered