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Section → (A) BS(SE)

Subject → Data Base

Class Timing → Friday 8:00 / 5:00

Q1 ⇒ Answer the following Question in maximum 2 to 3 lines.

① → which attribute in the following table is a candidate key? Assume that no more data will ever be added to this table?

Ans① →

Candidate Key :-

A Candidate key is an attribute or combination of attributes and column or a set of column in a table that can uniquely identify. So in the following table that student ID and cell Phone number is the candidate key. Because the ID and the cell number can uniquely identify the student.

② → What is data Redundancy and Data integrity?

② →

Data Redundancy :-

Data Redundancy is a condition create with in a

data base or data storage technology in which the same piece of data is held in two separate places.

e.g:

Two different feild with a single data Base.

Data integrity:

Data integrity is the completness, correctness and consistency of data this can be indicated by the absences or b/w two update of a data record.

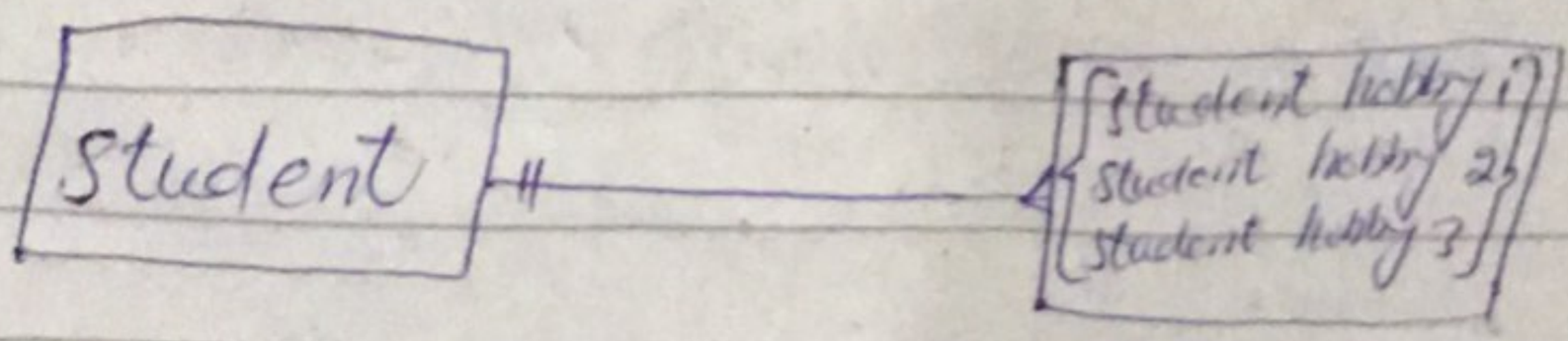
③ How a multivalued composite attribute is represented in conceptual model. Show with example?

③ →

Multivalued composite attributes:

A multivalued composite attributes is that entity which have more than one attribute at the one Time -

Multivalued attribute representation in Conceptual Model-



Now in this eg a Student with a Multiple hobbies. Mean single Entity with a Multivalued attributes.

④ ➢ How is these reduced maintenance, in database approach?

Ans ④ ➢

Maintenance:

Maintenance is that are when the change the data Base or improvement that is called Maintenane.

⑧ ➢ How are the following represented using ER Diagram: Mandatory one Mandatory many. optional one, optional many?

(5) → Mandatory one using ER diagram -

—||

(2) Mandatory many using ER diagram.

—|<

(3) optional one using ER diagram.

—o|

(4) optional Many using ER diagram.

—o<

(6) → Why is there an explicit need of backup in database approach?

(6) →

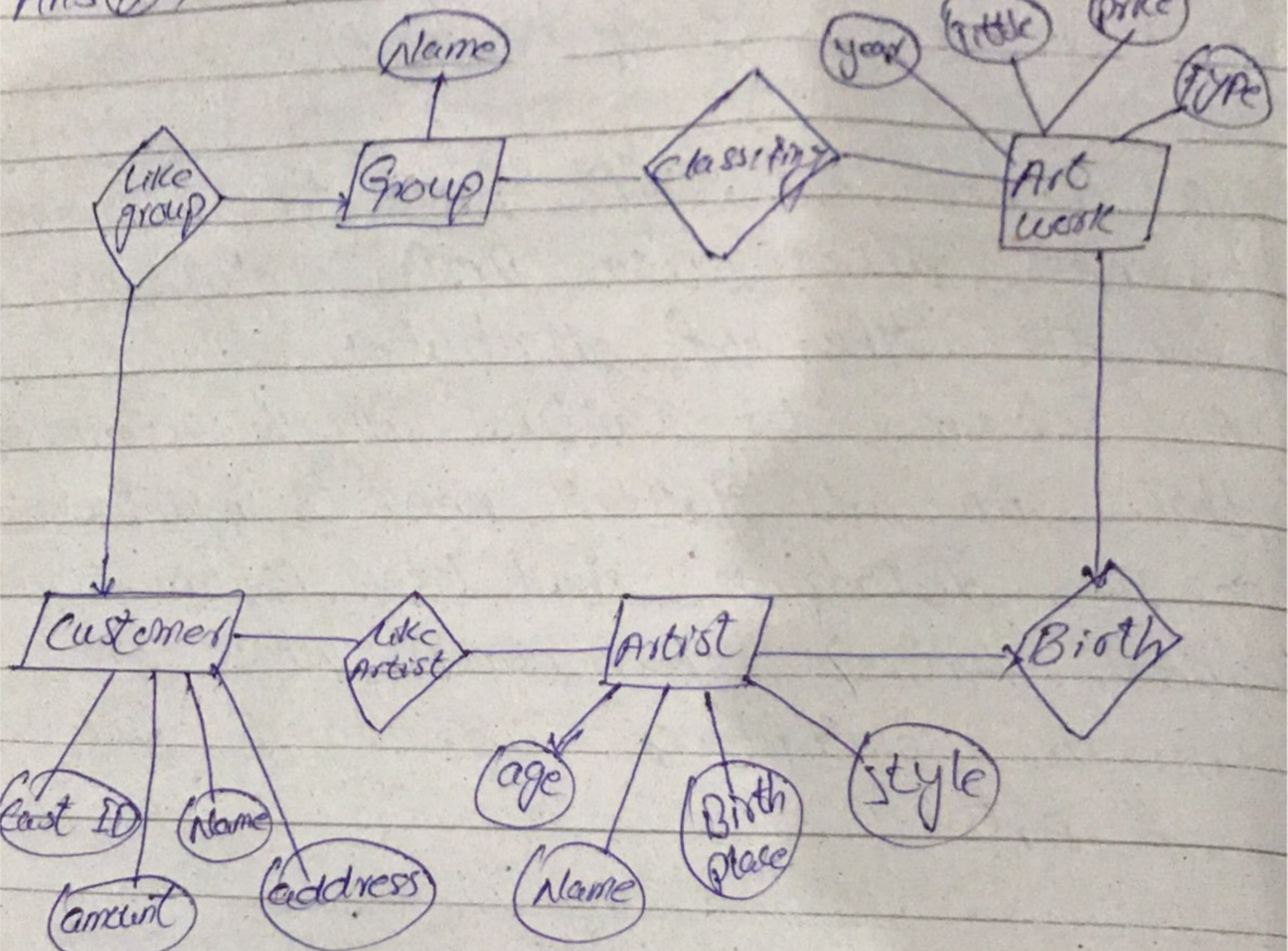
Need of Backup :-

The DBMS should provide backup facilities that Produce a backup copy of the entire data Base The copy should stored in

a secured location where it is Pro-
tected from loss or Damage.

Q2: Draw an ERD from the following
business rules. use proper notations
for the type of attributes
A Schema to Captual all the informatio
that An art gallery need to maintain.
→ The database shall keep information
about Artists, their names (which are
unique) birthplace. age. and style
of Art?

Ans (2) →



Q(3) → Convert the following Model to the Conceptual Model to Relational model?

Ans (3) →

Ans 7