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Q No 1 Answer the following short Question.

(1) What is metadata in Database?
Give 1 example?

Ans: Metadata:

The data providing information about one or more aspect of the data, it is used to summarize basic information about which can make tracking and working with specific data easier.

For example:

Time & date of creation

(2) List down the Components of Database environment?

- Case tools
- Repository.
- Database Management System
- Databas
- Application programs
- System Developers.
- End users.

(3) Give 4 example of DBMS?


- 1- NADRA database (Maintaining the NIC information our country)
- 2- University database (maintaining the information concerning, student, courses, lecturers, teacher)
- 3- online app database (maintain the customer information etc)
- 4) School database (maintaining the student information etc)


(4) What is a Data warehouse?

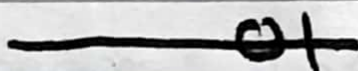
Ans Data Warehouse:


A data warehousing is process for collecting & managing data from varied sources to provide meaningful business insights. A data warehouse is typically used to connect & analyze business data from heterogeneous sources. The data warehouse is the core of the BI system which is built for data analysis & reporting.

(5) How are the following represented using ER diagram - - - - ?


Mandatory one


Mandatory Many

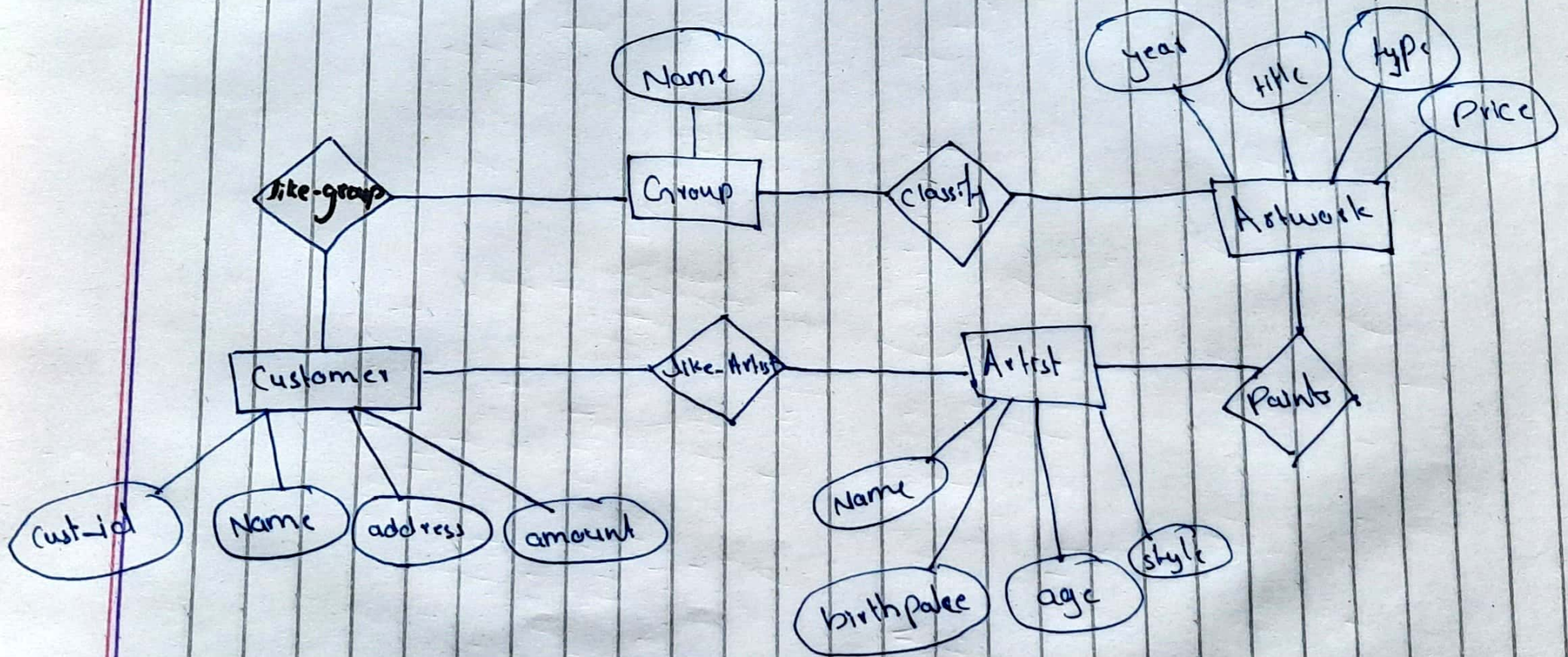

optional one


optional Many

(6) What are CASE tools on database Environment?

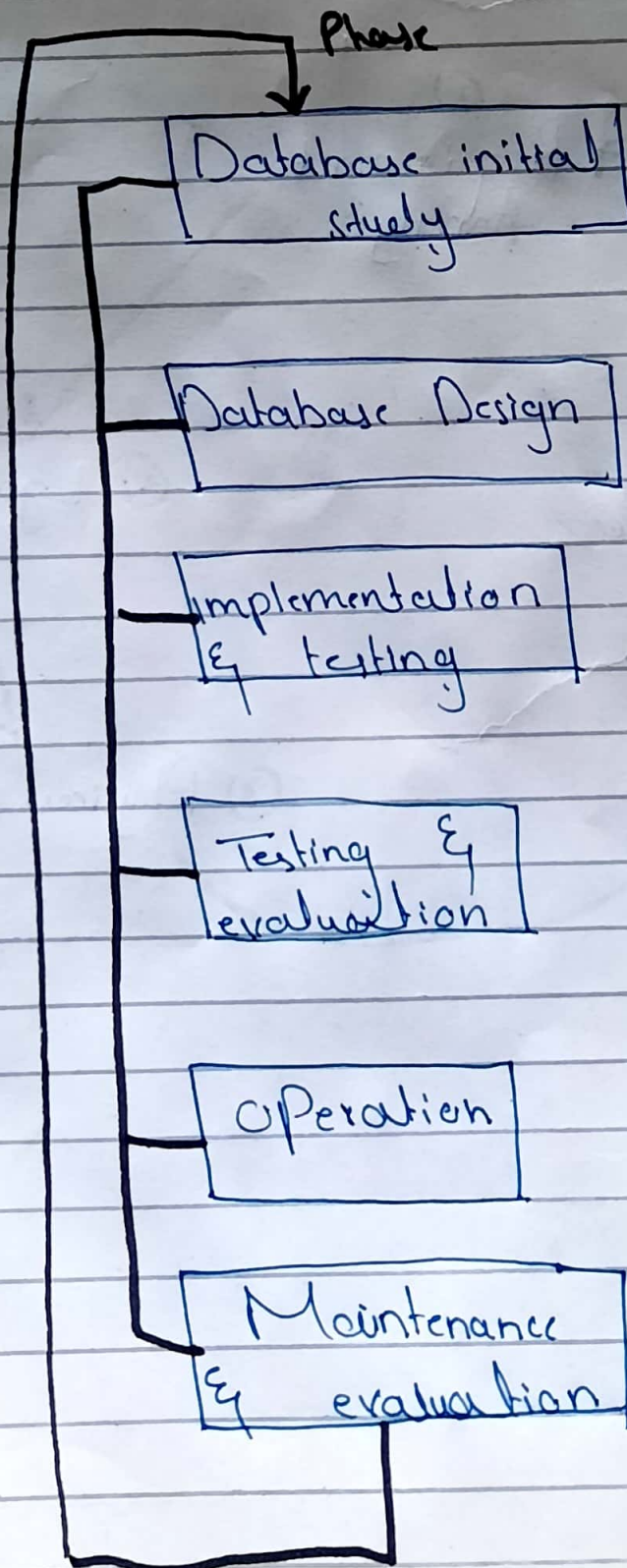
CASE (Computerized - Aided Software Engineering) Tools Package are software packages that include many tools that can be helpful when it comes to database design. The main goal of these packages is to give designers a way of representing systems that are too complex to understand in their source code or schema based forms.

Q No 2 Draw an ERD from the following - - - - ?



Q No 3

(a) Draw the flow of phases in Database development life cycle?



(b) Conceptual & Relational models are created in which phase of database Development life cycle?

The Conceptual phase is the initial phase of research and involves the intellectual process of developing a research idea a realistic and appropriate research design. The relational model for database management is a approach to managing data.