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SUBJECT Database Systems

1. What is metadata in Database? Give 1 example

Ans :

Metadata providing information about one or more aspects of the data; it is used to summarize basic information about data which can make tracking and working with specific data easier

e.g

include: Means of creation of the data. Purpose of the data. Time and date of creation.

2. List down the components of database environment?

Ans :

The components of database environment.

- *CASE Tools*
- *Repository*
- *Database Management System (DBMS)*
- *Database*

Application Programs

- *User Interface*
- *Data/Database Administrators*
- *System Developers*
- *End Users*

3. Give 4 examples of database Management System (DBMS)

Ans :

- Oracle
- Clipper
- FoxPro
- MySQL

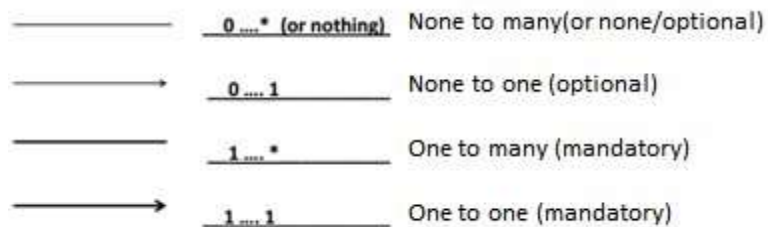
4 . What is a Data warehouse?

Ans :

A Datawarehouse is the repository of a data and it is used for Management decision support system. Datawarehouse consists of wide variety of data that has high level of business conditions at a single point in time. In single sentence, it is repository of integrated information which can be available for queries and analysis.

5. How are the following represented using ER Diagram: Mandatory one, Mandatory many, Optional one, Optional Many?

Ans :



6. What are CASE tools on Database Environment?

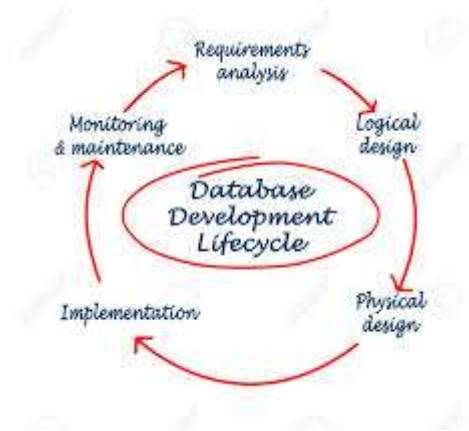
Ans :

CASE Tools—computer-aided software engineering. These tools providing automated support for systems development

Q 3: (5 Marks)

- a) Draw the flow of phases in Database Development Life Cycle.

Ans :



b)

Conceptual and Relational Models are created in which phase of Database Development Life Cycle?

Ans : The second phase

Database activity—Thorough and integrated conceptual data modeling

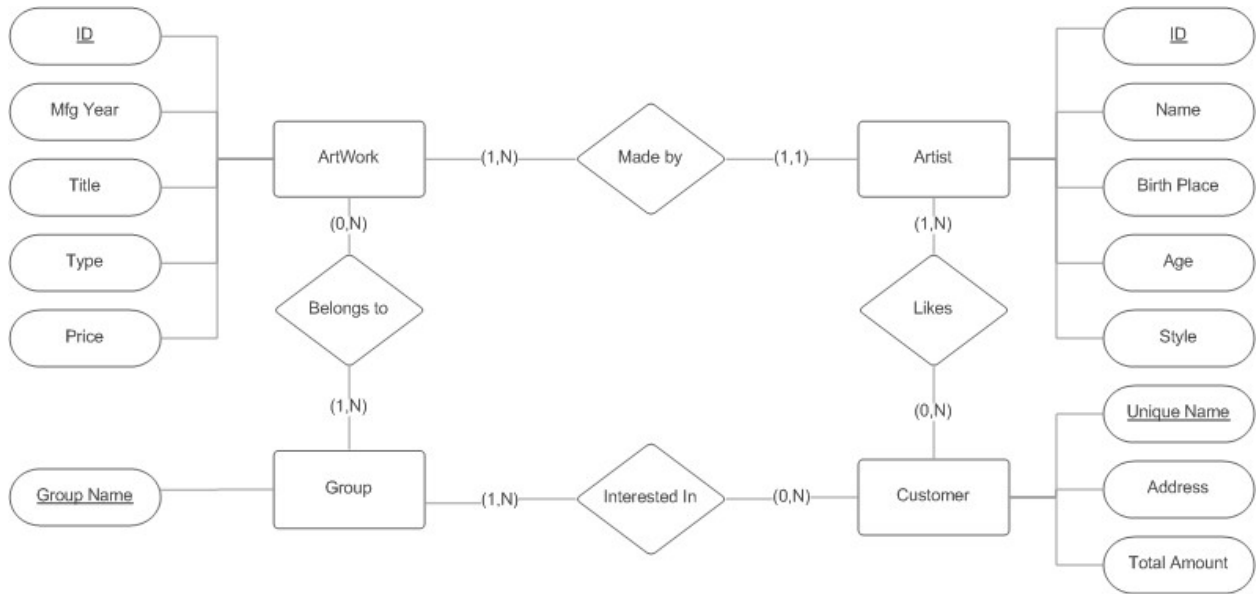
Purpose—thorough requirements analysis and structuring

Deliverable—functional system specifications

Q 2: Draw an ERD from the following business rules: Use proper notations for the type of attributes

Ans :

A relational schema corresponding to description and ER diagram is given below.



ARTIST (AName, Birthplace, Age, Style)

ARTWORK (Title, Year, Type, Price, AName)

CUSTOMER (CustId, CName, Address, Amount)

GROUP (GName)

CLASSIFY (Title, GName)

LIKE_GROUP (CustID, GName)

LIKE_ARTIST (CustID, AName)