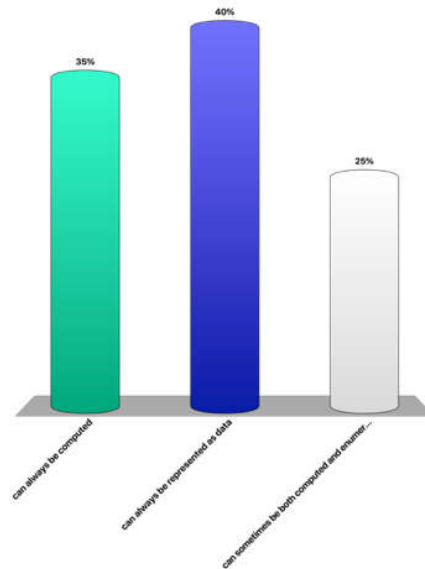


Functions in models ...

1. can always be computed
2. can always be represented as data
3. can sometimes be both computed and enumerated



Can you give a concrete example of a function in an information system, where the function can be alternatively computed or enumerated?

Interpretation relationships ..

1. are always computable
2. are sometimes computable
3. are uniquely defined

Can you give an example of a computable interpretation relationship?

What is not specified in a data definition language?

1. The structure of a relational table
2. The query of a user
3. A constraint on a relational table
4. The definition of a view

Logical data independence is not intended to ...

1. support different conceptual models on the same database
2. create a conceptual model over different databases
3. change a conceptual model without affecting the database schema

Which is wrong? An index structure ...

1. is defined as part of physical database design
2. is selected during query optimization
3. accelerates search queries
4. accelerates tuple insertion

Persistence means that ...

1. a change of a transaction on a database is never lost after it is completed
2. the state of a database is independent of the lifetime of a program
3. the same logical database can be stored in different ways on a storage medium

Grouping Facebook users according to their interest by analyzing the content of their tweets is ...

1. a retrieval task
2. a data mining task
3. an evaluation task
4. a monitoring task

Creating a web portal for comparing product prices is (primarily) a problem of ...

1. Distributed data management
2. Heterogeneous data integration
3. Collaboration among autonomous systems

If Google stores the search result of a Swiss client on a Swiss server after retrieving it from its US servers, it is doing

1. distributed query processing
2. data partitioning
3. data replication
4. data caching

Which of those platforms is using multi-cast?

1. Bittorrent
2. Twitter
3. SMS
4. Google search

Creating a web portal for comparing product prices requires to address

1. Syntactic
heterogeneity
2. Semantic
heterogeneity
3. Both

An ontology is a ...

1. database
2. database schema
3. data model
4. data modeling
formalism
5. model

Trust is ...

1. a quality of information
2. a quality of a user
3. a quality of the relationship among user and information
4. a quality of the relationship among users