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1. What does the abbreviation DBMS stand for?

A. Digital Base Mapping System.

B. Data Borrowing and Movement Software.

C. Database Management System.

D. Database Manipulation Software.

Ans: C

2. The advantages of Standard Query Language (SQL) include which of the following in relation to GIS databases?

A. It is good at handling geographical concepts.

B. It is widely used.

C. It is simple and easy to understand.

D. It uses a pseudo-English style of questioning.

Ans: A

3. Which of the following are characteristics of an RDBMS?

A. Keys may be unique or have multiple occurrences in the database.

B. It cannot use SQL.

C. Queries are possible on individual or groups of tables.

D. Tables are linked by common data known as keys.

E. Data are organized in a series of two-dimensional tables each of which contains records for one entity.

Ans: D

4. What is a 'tuple'?

A. A row or record in a database table.

B. Another name for the key linking different tables in a database.

C. An attribute attached to a record.

D. Another name for a table in an RDBMS.

Ans: A

5. Which of the following are issues to be considered by users of large corporate GIS databases?

A. The need for multiple copies of the same data and subsequent merging after separate updates.

B. The need to manage long transactions.

C. The need for manual transfer of records to paper.

D. The need for multiple views or different windows into the same databases.

E. The need for concurrent access and multi-user update.

Ans: D

6. Which of the following are features of the object-oriented approach to databases?

A. The need to split objects into their component parts.

B. The ability to represent the world in a non-geometric way.

C. The ability to develop more realistic models of the real world.

D. The ability to develop databases using natural language approaches.

E. The ability to develop database models based on location rather than state and behaviour.

Ans: C

7. Redundancy is minimised with a computer based database approach.

A. True

B. False

Ans: A

8. The relational database model is based on concepts proposed in the 1960s and 1970s.

A. True

B. False

Ans: A

9. A row in a database can also be called a domain.

A. True

B. False

Ans: B

10. A first step in database creation should be needs analysis.

A. True

B. False

Ans: A