

1. What is the main goal of dimensional modelling?
 - a. Produce simple end user-friendly database structures
 - b. Optimize the update performance
 - c. Facilitate the administration of databases
 - d. All of the above
2. Which of the following sources can be used to extract data?
 - a. Source databases
 - b. Flat (e.g. csv) and excel files maintained by business
 - c. Application Programming Interfaces (APIs)
 - d. All of the above
3. Which of the following is an incorrect description of a data mart?
 - a. It provides enterprise wide view of all organisational data
 - b. It is a subsection of a data warehouse
 - c. It focuses on a single business process
 - d. It can connect to other data marts
4. Why does data warehouse design support efficient (fast) organizational decision-making?
 - a. It provides data at the lowest level of detail
 - b. It has up to date data
 - c. It has denormalised data
 - d. Both a and c
5. Which description is correct for non-volatile data?
 - a. It gets updated immediately every time data changes
 - b. Helps with historical analysis of data
 - c. Users have a "read only" access
 - d. All of the above
6. What visualization operator do dimension hierarchies enable?
 - a. Drill down
 - b. Drill across
 - c. Pivoting
 - d. All of the above
7. Chunking is a method which can be used to build a star schema. The chunking involves?
 - a. Using a Hub and spoke architecture
 - b. Using an independent architecture
 - c. Identifying tables which are classified as transactions, components and classification and using them to create facts, dimensions and hierarchy tables in the star schema
 - d. Identifying tables which are classified as transactions, components and classification and using them to create facts and dimensions in the star schema

8. Operational systems are not very useful for strategic information needs because:
- a. They do not have up-to-date data
 - b. The information in them is only applicable for the purpose of the process that the system is design for
 - c. You cannot get access to the database through the source application
 - d. They provide aggregated measures that are too difficult to understand for running a business
9. Which of the following provides the best description for a transactional database?
- a. Offers a historical perspective through archival data
 - b. Delivers a comprehensive overview over organisational data
 - c. Provides reports to the viewers when they press the 'refresh' button
 - d. Are optimized for the immediate support of a particular business process
10. The data to ink ratio is a way to:
- a. Improve your visualization by making specific parts of your visualization bold
 - b. Highlight important visuals with a colourful background
 - c. Improve the visual effect of your image by choosing the correct picture for your dashboard
 - d. Remove redundant features from your visual