- 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 <u>efficient (fast)</u> organizational decision-making?
 - a. It provides data at the lowest level of detail
 - b. It has up to date data
 - c. It has de-normalised 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 <u>not very useful</u> 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*