SAMPLE MID-SEMESTER TEST QUESTIONS

1. 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 was design for
   c. You cannot get access to the database through the source application
   d. Vendors provide all the reports that are needed to run the business

2. Which of the following provides the <u>best</u> description for timely data?
   a. Data available from every transaction
   b. Data available in the data warehouse after a very short time (e.g. no more than 2 minutes) after appearing in an operational system.
   c. Data that is delivered to the report viewer when they press the 'refresh' button
   d. Depends on the business process

3. What is the <u>main goal</u> of integrating organisational data?
   a. Create single view of organizational data
   b. Creating enterprise view of data
   c. Create master data
   d. All of the above

4. There are five types of data warehouse architecture (Centralized, Independent, Federated, Hub and Spoke, Datamart Bus). Which of the following statements is <u>true</u>?
   a. Centralized is always preferred because it is built by the IT department and fastest do implement.
   b. The Hub and Spoke is similar to the centralized method but it also allows data marts to be created for various departments.
   c. A Independent approach is best because the consultants which create it are independent from the business and are not influenced by internal politics.
   d. Federated Systems are data warehouses in the cloud and perform better than on premises solutions.

5. How <u>many</u> data warehouses an organization can have?
   a. One
   b. Two to five
   c. Five to seven
   d. As many as needed

6. How <u>many</u> data marts an organization can have?
   a. One
   b. Two to five
   c. Five to seven
   d. As many as needed

7. 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 the information needs of a single business group
    d. It is always built and loaded from information from in the enterprise data warehouse

8. Star schemas supports efficient (fast) organizational decision making because?
    a. They support a business analytics view of the organisation
    b. Business intelligence visualization can only be used to connect to them
    c. It has de-normalised data which requires less joins than operational systems
    d. Both a and c

9. Which of the following statements are true about metadata?
    a. It is used by the database management system to manage its operations and is not visible to anyone else.
    b. It contains description about fields and tables in the data warehouse which can help understand the (data) linage of the fields
    c. It contains information about pre-defined queries and reports
    d. b and c

10. Every star schema has dependencies in its load. Which of the following statements are true?
    a. The performance of the load is dependent on when the source database is taken offline for loading.
    b. Fact and Dimension Tables should be loaded in parallel to improve the overall load time of the star schema
    c. The dependencies are only restricted by the hop (or execution order) as created in the ETL tool.
    d. Fact tables are always loaded after dimension tables to ensure dimension keys are available for lookup.