Read and answer each question carefully. You may use your text book and other resources available, but you may NOT discuss the test questions with other students in the class.

1. Compare and contrast the differences between ORDBMS and OODBMS date modeling features. (10 points)

2. What are the advantages and disadvantages of extending the relational data model? (10 points)

3. What are the main features of the SQL:2008 standard that appears in Oracle? (10 points)

4. Compare and contrast procedures, functions, and methods. (10 points)

5. Briefly describe the functionality of user-defined types (UDTs). (20 points)

6. Discuss the differences between a subtype and a supertype. (20 points)

7. Briefly describe the functionality of user-defined routines (UDRs). (20 points)

The following two extra credit questions are for those who did not score well on a previous test, who wish to have any points earned assigned to a prior test in order to achieve a higher score.

Extra Credit 1 (25 points)

Describe the characteristics and main functions of the following components of a data warehouse:

(a) ETL manager;
(b) Warehouse manager;
(c) Query manager;
(d) Metadata; and
(e) End-user access tools.

Extra Credit 2 (20 points)

Describe the features of Oracle that support the core requirements of data warehousing.