1/24/12 ALCCS

## **ALCCS**

## **FEBRUARY 2009**

Code: CS482 Subject: DATA WAREHOUSE DESIGN & IMPLEMENTATION
Time: 3 Hours Max. Marks: 100

## NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.

Q.1 (7 x 4)

- a. Explain atleast four benefits of granularity of data in warehouse design.
- b. Differentiate between OLTP systems and Decision Support systems.
- c. What are the different ways in which technology can support efficient index access?
- d. Write an algorithmic path to calculate the row/ space occupied by a data warehouse.
- e. How is the dimensional modeling tool better suited for a data warehousing as compared to the semantic data model like ER model?
- f. Mention one advantage and one disadvantage of multiple platforms in management of common detail in Distributed Datawarehouse.
- g. Discuss the advantages of a star schema.
- Q.2 a. Discuss the structure of a data warehouse using a figure. (8)
  - b. Illustrate using a small example the term "Partitioning of data". Discuss in detail partitioning as design approach for a data warehouse. (10)
- Q.3 a. Explain the process of Normalisation in warehouses. List its advantages. (8)
  - b. Why is metadata necessary for using, for building and for administrating a data warehouse? (10)
- Q.4 a. Discuss the complexities in transformation and integration of data. (8)
  - b. What is the difference between local and global warehouses? (10)
- Q.5 a. A warehouse is a subject-oriented, integrated, time-variant, and non-volatile collection of data in support of management's decision-making process. Explain. (8)
  - b. What is meant by drill down analysis? Explain its benefits to the manager. (10)
- Q.6 a. Give the stages of migration from a corporate data model to the architected environment. (8)

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b. Discuss in detail, why it is advisable to keep summary data in the EIS and not in the detailed data. (10)

<b>Q.7</b> Write short notes on an	y
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(i)	Language Interface in
warehouse.	
(ii)	Lock Management.
(iii)	Spider web.
(iv)	Event mapping.

(6+6+6)

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