

ALCCS

Code: CS482
Time: 3 Hours

Subject: DATA WAREHOUSE DESIGN & IMPLEMENTATION

Max. Marks: 100

SEPTEMBER 2010

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.**

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- Q.1** **(7 × 4)**
- Which techniques can be used to make feedback loop harmonious?
 - Differentiate between Data warehouse and Data Mart.
 - What are the goals of a Data Warehouse? Explain.
 - Define extract program. What are its advantages?
 - When is design review performed? Who should be in a design review?
 - Explain primary and secondary data in the context of snapshots in the data warehouse.
 - Data warehouse is subject oriented and integrated. Comment.
- Q.2**
- Give reasons for the iterative development of data warehouse. Also explain the role of data model in iterative development. **(10)**
 - What is stored in meta data in a data warehouse environment? **(4)**
 - Define OLAP cube. Mention its advantages and disadvantages over relational technology. **(4)**
- Q.3**
- What are the four basic constructs found at the midlevel data model? Explain it with the help of an example. **(10)**
 - Explain the characteristics or features of a data warehouse? **(8)**
- Q.4**
- Differentiate between Star Schema, Snowflake Schema and fact constellations with the help of a diagram. **(10)**
 - What are issues related to the use and storage of external data in the data warehouse? Also mention the methods to capture and store external information. **(8)**
- Q.5**
- Discuss the basic components/ elements of the data warehouse with the help of a diagram. **(10)**
 - Differentiate between the following:
 - OLTP and OLAP
 - Database and Data Warehouse**(4+4)**
- Q.6**
- Discuss three different types of distributed data warehouse. Explain local and global data warehouses. **(10)**

b. What is EIS? Explain it with the help of an example. (8)

Q.7 Write short notes on any **THREE** of the following: (6+6+6)

- (i) ERP-oriented Corporate Data Warehouse
- (ii) Data Warehouse Physical Data Model
- (iii) Structuring Data in Data Warehouse
- (iv) Granularity in Data warehouse Environment.