





12. (a) Suppose that a data warehouse consists of the four dimensions, date, spectator, location, and game, and the two measures, count and charge, where charge is the fare that a spectator pays when watching a game on a given date. Spectators may be students, adults, or seniors, with each category having its own charge rate. (8)

- (i) Draw a star schema diagram for the data warehouse.
- (ii) Starting with the base cuboid [date, spectator, location, game], what specific OLAP operations should one perform in order to list the total charge paid by student spectators at GM Place in 2004? (8)

Or

- (b) Discuss the approaches for mining of multi level Association rules from transaction data base. Give relevant example.

13. (a) (i) With a neat sketch discuss the data warehouse architecture. (8)
- (ii) Discuss the various types of meta data. (8)

Or

- (b) Write short notes about the following :
- (i) Meta data systems (8)
- (ii) Data warehouse process managers. (8)

14. (a) Illustrate about the Service level agreement of data warehouse.

Or

- (b) Illustrate about the Backup and recovery of data warehouse systems.

15. (a) Illustrate about the salient features of data warehouse.

Or

- (b) Briefly describe the following with suitable examples.
- (i) Capacity planning of data warehousing (8)
- (ii) Testing the data warehouse. (8)