Master of Computer Application (MCA)-I (CBCS Pattern) Second Semester CBCS
PSMCAT204.1 - Paper-IV : Elective-I : Data Warehousing

P. Pages : 2

Time : Three Hours

|| *3209* ||

Max. Marks : 80

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Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram wherever necessary.
3. Avoid vague Answers.

1. Either

a) Explain Data Modeling using star schema for Multidimensional view. **8**

b) Explain MOLAP architecture in detail. **8**

OR

c) Explain OLAP tools and the Internet. **8**

d) What are the architectural Strategies and organizational issues of a Datawarehouse. **8**

2. Either

a) Explain types of Data Marts and Meta data for a Data Mart. **8**

b) Explain OLAP tools in open source domain. **8**

OR

c) Explain data preparation and its types in data mining. **8**

d) Explain:- **8**
   i) Database Segmentation.
   ii) Predictive Modelling.

3. Either

a) Consider the following schema **8**
   • Employee (<u>Person-name</u>, Street, city)
   • Works (<u>Person-name</u>, Company-name, Salary)
   • Company (<u>Company-name</u>, city)
   • Manager (<u>Person-name</u>, manager-name)
   i) Find the names of all employees who works for foist Bank Corporation.
   ii) Find the names of all employee's who live in same city as the company for which they work.
   iii) Find the names of all employee's who eurn more than every employee of small bank corporation.

b) Explain what do you mean by sequence with proper example. **8**

OR

c) What is the use of joins in SQL. Write on example of equijoin. **8**

d)	i)	State the importance of nested queries.	**8**
	ii)	Consider the following schema.	

Sales – order (Order-no, client-no, order-date)
Client – Master (Client – no, name, Bal-due)
Retrieve . all the records placed by a client named 'John Mathew's from sales – order table.

4. Either

a) What are the Stored procedure in PL/SQL and what are the different parts of a stored procedure. **8**

b) Explain in brief the following terms. **8**
   i) Shared lock   ii) Exclusive Lock.

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OR

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c) Explain what is a Database Trigger and its use. Also write syntax for creating trigger. **8**

d) Explain what is a view and why do we use view. Also give one example of creating a view for multiple table's. **8**

5. Solve all the questions.

a) Explain the important characteristics of a Data ware house. **4**

b) Write a short note on Database Segmentation. **4**

c) What are Aliases in SQL with one example. **4**

d) How would you avoid a deadlock in SQL. **4**

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