

AI-108

April -2018

B.C.A., Sem.-IV

CC-208 : Database Management System – II

Time : 3 Hours]

[Max. Marks : 70

1. (A) (1) List out the DML commands. Explain INSERT and DELETE commands with example. 4

(2) Explain logical operators with examples. 3

OR

(1) Discuss the functions COUNT, AVG, MIN and SUM with example.

(2) What is a virtual table ? State its purpose with syntax. Give an example of it.

(B) (1) What is constraint ? Explain DEFAULT and PRIMARY KEY constraint with example. 4

(2) How to change a column's data type in Oracle ? Explain with example. 3

OR

(1) How to create table in Oracle ? Explain the table structure with example.

(2) Explain BETWEEN, LIKE and IN special operators with example.

2. (A) (1) Explain BI framework with diagram. 4

(2) What is OLAP ? Explain any two characteristics in brief. 3

OR

(1) What are the requirements of decision support database ?

(2) What is Business Intelligence ? Discuss the general steps involved in BI.

- (B) (1) What is Data warehouse and what are its main characteristics ? 4
(2) Give the difference between Operational Data and Decision Support Data from the data analyst's point of view. 3

OR

- (1) What is data mining ? Explain four phases of data mining.
(2) Explain the need for data analysis in brief.

3. (A) (1) Write a short-note on advantages of DDBMS. 4
(2) Write a short-note on Evolution of DDBMS. 3

OR

- (1) Explain the DDBMS components in brief.
(2) Explain Two-Phase Commit Protocol in brief.

- (B) (1) Explain the characteristics of distributed Database Management System. 4
(2) Explain Distributed Database and Distributed processing in brief. 3

OR

- (1) Explain SPSD and MPMD in brief.
(2) Write a short-note on Distribution Transparency.

4. (A) (1) Explain "JOIN ON" clause and "JOIN USING" clause with example. 4
(2) Explain TO_CHAR and TO_DATE functions in ORACLE with example. 3

OR

- (1) Explain INTERSECT and UNION ALL relation set operators.
(2) Explain CORRELATED SUBQUERY with example.

- (B) (1) Write a short-note on OUTER JOIN with its types. 4
(2) Explain CEIL and SUBSTR functions in ORACLE. 3

OR

- (1) Explain WHERE SUBQUERY and IN SUBQUERY with example.
(2) Write a short note on SEQUENCE in Oracle.

5. Answer the following :

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- (1) Full form of DDL is _____.
- (2) The transaction processor is also known as Data Manager. (True/False)
- (3) MPSD is stands for _____.
- (4) The _____ transparency ensures that the system will continue to operate in the event of a node failure.
- (5) The UNION statement combines rows from two or more queries with duplicate rows. (True/False)
- (6) To enter the data into a table UPDATE command is used. (True/False)
- (7) A natural join returns all rows with matching values in the matching columns and eliminates duplicate columns. (True/False)
- (8) The COMMIT command is used for temporary saves the changes. (True/False)
- (9) A query inside a query is known as _____.
- (10) The data warehouse and operational environment are separated. (True/False)
- (11) Client/Server architecture provides a framework within which new system can be designed, developed and implemented. (True/False)
- (12) The Decision support database schema must support non-normalized data representations. (True/False)
- (13) To add the primary key in existing table, which command is used ?
 - (a) ALTER TABLE
 - (b) MODIFY TABLE
 - (c) CHANGE TABLE
 - (d) All of the mentioned
- (14) _____ is used to returns the number of characters in string value.