AN-106

April-2017

B.C.A., Sem.-IV

CC-208 : Database Management System – II

Time : 3 Hours] **[Max. Marks : 70**

1. (A) Answer the following : (any two) 6
   (1) Difference between DDL and DML, give example in support of your answer.
   (2) Explain IN and EXISTS operator giving example.
   (3) Explain the significance of table level constraints with example.
   (4) What is a virtual table ? State its purpose using syntax and example.

   (B) Answer the following : (any two) 8
   (1) Using examples, explain the functions : COUNT, MAX, SUM and AVG.
   (2) What are Aliases ? How are they used in SQL queries ? Explain giving example.
   (3) Explain the use of ORDERBY and GROUPBY with example.
   (4) Explain how can you ADD and DROP column in SQL with example.

2. (A) Answer the following : (any two) 6
   (1) Write a note on characteristics and benefits of DSS.
   (2) Explain advantages and disadvantages of Data Mining.
   (3) Differentiate between Operational and Data Warehouse systems.
   (4) Explain Decision Support Database requirements.

   (B) Answer the following : (any two) 8
   (1) Explain Data Mining with its phases.
   (2) Explain Online Analytical Processing (OLAP).
   (3) What is Data Warehouse ? Explain its characteristics.
   (4) Explain the main components of business intelligence architecture.

3. (A) Answer the following : (any two) 6
   (1) Explain components of DDBMS.
   (2) Explain Distributed concurrency control.
   (3) What do you understand by Remote Transaction ?
   (4) Explain Static and Dynamic Query Optimization.

(B) Answer the following : (any two) 8

(1) Write a note on Distribution transparency.

(2) Differentiate between Multiple-site processing, Multiple-site Data (MPMD) and Multiple-site processing, Single-site Data (MPSD).

(3) Explain Distributed database and Distributed process in detail.

(4) Explain two-phase Commit Protocol.

4. (A) Answer the following : (any two) 6

(1) What is Cross Join ? Give example of its syntax.

(2) Explain TO_DATE, CEIL and SUBSTRING functions in ORACLE.

(3) Write a note on JOIN ON and JOIN USING clause using example.

(4) Explain using example the difference between UNION and UNION ALL.

(B) Answer the following : (any two) 8

(1) Explain INTERSECT AND MINUS relational set operators.

(2) Differentiate between subquery and correlated subquery giving an example.

(3) What three join types are included in OUTER JOIN ?

(4) Write a note on ORACLE SEQUENCE.

5. Answer the following : 14

(1) The _____ SQL keyword is used delete the data in a table.

(2) To remove duplicate rows from the result of a query specify the SQL qualifier _____.

(3) Like Operator uses _____ and _____ symbols for pattern matching.

(4) _____ is the keyword to restore the data to their pre-change condition.

(5) SPSD stand for _____.

(6) _____ is a framework that allows business to transform data into information, knowledge and wisdom.

(7) In the _____ phase data mining findings are used to predict future behaviour of a business.

(8) _____ allows the integration of several different local DBMSs under a common, or global, schema.

(9) Query optimization algorithms are classified as _____ and _____

(10) _____ is a small, single-subject data warehouse subset that provides decision support to small group of people.

(11) _____ Function returns today's date.

(12) Cross Join is also known as _____.

(13) SELECT substr('SYBCASEM4',3,3) from DUAL; gives _____ output.

(14) _____ Function returns a character string or a formatted string from a date value.