

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2021

Subject Name : Database Systems with ORACLE

Subject Code : 4CS03IDS1

Branch: B.Sc.I.T.

Semester: 3

Date: 15/12/2021

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions: (14)

- a) What is the full form of SQL?
a) System Query Language b) Soft Query Language
c) Structured Query Language d) None of above
- b) To add a new Field in created Table, we have to use _____ command
a) Add b) Insert c) Update d) Alter
- c) Which operator used to select only common data from two tables?
a) union b) Intersect c) minus d) common
- d) To select unique records in any field of a table, we have to use _____ clause
a) unique b) distinct c) both A and B d) None
- e) We have maximum _____ primary key in a table
a) One b) Two c) Three d) None of above
- f) A _____ is known as virtual table
a) View b) Sequence c) Both A and B d) None of the above
- g) Which is TCL (Transaction Control) command in oracle?
a) Rollback b) Commit c) savepoint d) All of the above
- h) Advantages of DDBMS are _____
a) Faster data access b) faster data processing
c) User friendly interface d) All of these
- i) Which are components of DDBMS?
a) Transaction Processor b) Data Processor



- c) Both A and B d) None
- j) Which join select common row and also non matching row from single table?
 a) implicit b) equi c) outer d) self
- k) OLAP means _____
 a) Online Active Processor b) Online Analytical Processing
 c) Online Active Programs d) None
- l) Extracting knowledge from large amount of data is called ____
 a) Data analysis b) Data mining
 c) Data Warehouse d) None of the above
- m) In SQL, SELECT command can use _____ clause
 a) WHERE b) Group By c) Order By d) All of the above
- n) Which is String function in oracle?
 a) INSTR () b) LENGTH () c) UPPER () d) All of these

Attempt any four questions from Q-2 to Q-8

- Q-2 Attempt all questions
- a) What is SQL? Explain data types used in SQL (5)
- b) Which are DML Commands? Explain UPDATE with WHERE clause with example. (5)
- c) Explain DELETE command with WHERE clause with example (4)
- Q-3 Attempt all questions
- a) What is Constraint? Explain Primary key constraint with example. (5)
- b) Define Normalization? Discuss 1st Normal Form and 2nd Normal Form. (5)
- c) Explain difference between DBMS Vs. RDBMS (4)
- Q-4 Attempt all questions
- a) Define Sub query? Explain IN and ANY operator in subquery with suitable example. (5)
- b) Define SEQUENCE. Discuss Sequence with suitable example. (5)
- c) Explain GRANT and REVOKE command with example. (4)
- Q-5 Attempt all questions
- a) What is DDBMS? Explain advantages of DDBMS. (5)
- b) Explain components used in DDBMS. (5)
- c) Discuss Two-phase commit protocol. (4)
- Q-6 Attempt all questions
- a) Explain equivalence join with example. (5)
- b) Define Set operator. Explain intersect and minus operator with example (5)



- c) Explain POWER() and LENGTH() function with example. (4)
- Q-7 Attempt all questions
- a) Write a note on Dr. E.F. Codd's Rule (7)
- b) Solve the following queries, for given tables (7)
- Table: Student (rollno, sname, class, semester).
Table: Teacher (rollno, tname, subject)
- 1) Find students name who's teacher is 'Prabhat Kumar'
 - 2) Find students name of 3rd Semester 'BCA' class with subject is 'PHP'
 - 3) Find total number of students of 'B.Sc.IT' Semester 5th class.
- Q-8 Attempt all questions
- a) Define Business Intelligence? Discuss Business intelligence Architecture. (7)
- b) Define Decision support data. Explain Operation data Vs. Decision support Data. (7)

