BHARATI VIDYAPEETH INSTITUTE OFTECHNOLOGY

Question Bank (K – Scheme)

Unit Test-II

Program: - CM/IF3I

Semester: - III

Course and code: - Database Management System **(313302)**

CHAPTER 3 (Interactive SQL and Performance tuning)(CO3)

2marks:-

1. Define sub query with syntax and example
2. Define View and also write syntax for creating view.
3. Define Index. List its types.
4. State use of sequence.

4marks:-

1. Describe syntax for creating view with example
2. Consider the following schema Depositor (ACC_no, Name, PAN, Balance) Create a view on Depositor having attributes (ACC_no, PAN) where balance is greater than 100000.
3. Describe index with syntax and example.
4. Describe sequences in PL/SQL with example.
5. .Create a sequence
   a) Sequence name is Seq _ 1, Start with 1, increment by 1, minimum value 1, maximum value 20.
   b) Use a seq_1 to insert the values into table Student (ID Number (10), Name char (20));
   c) Change the seq_ 1 max value 20 to 50.
   d) Drop the sequence.

CHAPTER 4 (PL/SQL programming)(CO4)

2marks:-

1. State any four PL/SQL datatypes.
2. State syntax of while loop command
3. Define cursor. List the two types of cursor
4. Define Trigger. List its types.
5. State any two advantages of functions in PL/SQL

4 marks:-

1. Explain PL/SQL block structure with the help of diagram and List advantages of PL/SQL.
2. Explain any one control structure in PL/SQL with example.
3. Write a PL/SQL program to calculate factorial of a given number
4. Write a PL/SQL program to print n even numbers using For Loop.
5. Write a PL/SQL program to handle Zero_divide exception

6. Explain exception handling in PL/SQL with example.
7. Write a PL/SQL program which accept the customer ID from the user if user enters an invalid ID then the exception invalid_id is raised using exception handling.
8. Write step by step syntax to create, open and close cursor in PL/SQL.
9. Explain database trigger with syntax and example.
10. Explain function in PL/SQL with suitable example.
11. Write and explain syntax for creating procedure.

CHAPTER 5 (Database Administration)(CO5)

2marks:-

1) Draw the state diagram of transaction.
2) Define Transaction
3) Define Database Recovery.
4) Define failure. Enlist types of failure

4marks:-

1. Write SQL command for following :
   (i) Create user
   (ii) Grant privileges to user
   (iii)Remove privileges from user

2. Write SQL command for following :
   (i) Create user 'Rahul'.
   (ii) Grant create, alter, select, insert, update privilege to 'Rahul'.
   (iii)Removes the select privilege from user 'Rahul

3. Explain grant and revoke command with syntax and example.
4. Describe database privileges. Write down the procedure for granting & revoking privileges in database objects to the users.
5. Explain ACID properties of transaction
6. Describe database backups with its types.
7. Describe components of Data Warehouse
8. Describe Big data types.
9. Define: i) Data lakes iii) Data mining.
10. Define: i) Mongo DB ii) Dynamo DB.