Department of Computer Science and Engineering, Anna University, Chennai

CS6106 – Database Management Systems

Sem / Batch: IV / Q, April 12, 2022

Week 7 – PL/SQL

Observation (5)

1. Write a brief note on synonym, sequence and index with syntax and example.

2. Study and explore **PL/SQL** programs.

 (eg Basic syntax, Data types, variables, Constants & Literals, Operators, Condition, Loops, Strings, Arrays, Procedures and Functions…etc)

3. Write any 2 simple PL/SQL programs.

Execution (15)

1. **Simple PL/SQL programs (4)**

 a) Write a PL/SQL procedure to find sum and average of three numbers

 b) Write a PL/SQL procedure to find the greatest of three numbers

 c) Write a PL/SQL procedure to find the factorial of a given number

 d) Write a PL/SQL procedure to generate Fibonacci series

2. Write a PL/SQL procedure to insert the patient record into the pat-entry table (2)

3. Write a PL/SQL procedure to delete a record in the pat-entry table. (2)

4. Write a PL/SQL procedure to retrieve (3)

 a) Operated patient details

 b) In-patient details

 c) Discharged patient details

5. Write a PL/SQL procedure to display the sum of salaries in specified department (2)

6. Write a PL/SQL procedure to calculate maximum of two salaries, fetch the salaries of any two doctors and find the maximum salary. (2)

Spot (5)

Employee (e-id, name, desg, age, Gender)

Salary (e-id, basic, allowance, deductions, gross, net)

Payslip(e-id, salary, tax)

1. Write a PL/SQL code to insert values in created tables.

2. Write PL/SQL code for finding specific Employee salary in given table.

3. Write PL/SQL code to update designation in Employee table while they get promoted.

4. Writ Pl/SQL code to generate pay slip for the current month after calculating the salary with reference to salary table.

      Gross = Basic + Allowance

      Net = Gross – deductions

      Salary = Net - tax

5. Write PL/SQL code to calculate net salary of all employee after deducing tax @ following rate and generate payslip after deducting the tax

      if Gross > 50k, 10% tax

      If gross > 50k and < 1L, 20% tax

      For gross exceeding 1L 30% tax

6. Write a PL/SQL code to print all female employees.

7. Write a PL/SQL code to calculate, minimum, maximum and average salary of the firm.

Happy Learning!