


School of Computing Science and Engineering

BTech CSE – V Sem

Database Systems Lab

Cycle sheet –II - PL/SQL

Consider the following schema for PL/SQL programming:

Table Name: Employee

Attribute	Data Type
First Name	VARCHAR(15)
Mid Name	CHAR(2)
Last Name	VARCHAR(15)
SSN Number	CHAR(9)
Birthday	DATE
Address	VARCHAR(50)
Sex	CHAR(1)
Salary	NUMBER (7)
Supervisor SSN	CHAR(9)
Department Number	NUMBER (5)

Table Name: Department

Attribute	Data Type
Department Name	Varchar(15)
Department Number	Number(5)
ManagerSSN	CHAR(9)
ManageStartDate	DATE

Exercise - VII: (outcome: e)

Aim: To understand the concept of Anonymous Blocks of PL/SQL.

1. Write a PL/SQL block to change address of a particular employee by taking his/her employee number interactively.
2. Write a PL/SQL block to display number of employees for each department.
3. Write a program to delete employee details who are having age >60.
4. Write a PL/SQL block to display employees who are top three earners in the company.
5. Write a PL/SQL to delete a records whose basic salary is <20000 from Emp table.

Exercise - VIII: (outcome: m)

Aim: To know the usage of different sequential and conditional control structures in PL/SQL blocks.

1. Write a PL/SQL block to find the greatest of three numbers.
2. Write a PL/SQL code to print the employee's cadre based on their basic scales as given below (hint use: case selector….)

Basic Scale	Cadre
45000	Manager
35000	Supervisor
25000	Worker

Exercise –IX : (outcome: c and m)

Aim: To understand the concepts of Iterations and Subprogram (Procedures and Functions) of PL/SQL.

Iterations (outcome: c)

1. Write a PL/SQL code to print even number ranging between 1 and 100 in reverse order.
2. Create a PL/SQL code to check whether the given number is palindrome or not.

Functions (outcome: m)

3. Write a function to find out average, maximum and minimum salary for a given Department name.
4. Write a PL/SQL to find the factorial of the given number using function.

Procedure (outcome: c)

5. Write a procedure to accept an employee name and display his department details.

Exercise - X: (outcome: m)

Cursor

Aim: To understand implicit and explicit cursor in PL/SQL

1. Retrieve the employee details that have no supervisors using cursors.
2. Write a cursor program to display manager details for each department.