Govt. of Karnataka, Department of Technical Education
Diploma in Information Science & Engineering

Sixth Semester

Subject: PL/SQL Lab

Contact Hrs / week: 6 **Total hrs: 96**

1	Write a PL/SQL code to create an employee database with the tables and fields specified as below.

a) Employee

Emp_no	Employee_name	Street	City

b) Works

Emp_no	Company_name	Joining_date	Designation	Salary

c) Company

Emp_no	City

d) Manages

Emp_no	Manager_name	Mang_no

Note: Primary keys are underlined.

2	Write a PL/SQL code to create an student database with the tables and fields specified as below.

a) Student

Roll_no	Student_name	Course	Gender

b) Student_personal

Roll_no	DOB	Father_name	Address	Place

c) Student_enrollment

Roll_no	Course	Course_code	Sem	Total_marks	Percentage

3	Write a PL/SQL code to retrieve the employee name, join_date, and designation from employee database of an employee whose number is input by the user.
4	Write a PL/SQL code to show TABLE type of data(Array)

5	Write a PL/SQL code to calculate tax for an employee of an organization – XYZ and to display his/her name & tax, by creating a table under employee database as below.
	    a) Employee_salary
	
	| Emp_no
		Basic	HRA	DA	Total_deduction	Net_salary	Gross_salary |
							  .

6	Write a PL/SQL code to calculate total and percentage of marks of the students in four subjects.
7	Write a PL/SQL code to calculate the total and the percentage of marks of the students in four subjects from the table- Student with the schema given below. STUDENT (RNO , S1 , S2, S3, S4, total, percentage)
8	Write a PL/SQL code to display employee number, name and basic of 5 highest paid employees.
9	Write a PL/SQL code to calculate the total salary of first n records of emp table. The value of n is passed to cursor as parameter.
10	Write a PL/SQL code to update the salary of employees who earn less than the average salary.
11	Write a row trigger to insert the existing values of the salary table in to a new table when the salary table is updated.
12	Write a trigger on the employee table which shows the old values and new values of Ename after any updations on ename on Employee table.
13	Writ a PL/SQL procedure to find the number of students ranging from 100-70%, 69-60%, 59-50% & below 49% in each course from the student_course table given by the procedure as parameter.
14	Create a store function that accepts 2 numbers and returns the addition of passed values. Also write the code to call your function.
15	Write a PL/SQL function that accepts department number and returns the total salary of the department. Also write a function to call the function.

16	Write a PL/SQL code to create,
	    a) Package specification
	    b) Package body.
	For the insert, retrieve, update and delete operations on a student table.

Text:

Database Management Systems, A Practical approach By- Er. Rajiv Chopra, S.Chand Publications, ISBN : 8121932459.

Reference:

Oracle PL/SQL Programming, In Simple Steps, By- Kogent Solutions INc., Wiley Dreamtech Publications, ISBN: 8177228552

Scheme of Valuation

1	Record	05
2	Writing two programs 2x15	30
4	Execution of one program	40
5	Result	05
6	Viva Voce	20
	Total	100