



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Assessment 03

Answer all the Questions

Section A (2 Marks)

Aim: To understand the concept of views and create virtual tables. To perform necessary operations on the virtual tables.

- Create a View for the employee table with selected attributes (any 3 attributes)
- Create a view for student database for all those students who have register for the course BCSE303P
- Create a view for the student database by having the course code and the average marks secured by the students for each of the subjects registered
- Is it possible to update the content of source database with the use of view definition made through the source database? Justify your answer with an example illustration

Section B (2 Marks)

Aim: To create necessary subqueries to perform the required operations in the employee table.

- Find the names of the employees whose salary is greater than the average salary of all the employees in every department
- Give an example to illustrate with a query that returns an error message as: **ORA-01427:** a single-row subquery returns more than one row
- Make use of the membership operators to perform the following query: *Print all the employee id and employee name for those who are not working in sales or production department.*
- Find all those employee names who are working in the project “**Codersview**” and works for more than 10 hours per week. (you must use employee, assignment and project table)

Section B (6 Marks)

Aim: To create PL/SQL block for the given questions with respect to the schema given below.

Basic Scale Cadre

Salary	Cadre
45000	Manager
35000	Supervisor
25000	Worker

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

- a. Write a PL/SQL block to print even number ranging between 1 and 100 in reverse order.
- b. Write a PL/SQL block to change address of a particular employee by taking his/her employee number interactively.
- c. Write a PL/SQL block to display number of employees for each department.
- d. Write a program to delete employee details who are having age >60.
- e. Write a PL/SQL block to display employees who are top three earners in the company.
- f. Write a PL/SQL code to print the employee's cadre (Designation) based on their basic scales.

***** All the Best *****