

### **Experiment-1**

A) Write a query to create a table called EMPLOYEE with the columns as given below and insert some sample data into the table.

<u>COLUMN NAME</u>	<u>TYPE</u>	<u>SIZE</u>
EmpID	Numeric	4
EmpName	Character	10
Designation	Character	10
HireDate	Date	
Salary	Numeric	7, 2

B) Write a query to display the Description of the table EMPLOYEE.

C) Write a query to increase the size of the column EmpName to 20 characters in the table EMPLOYEE.

D) Write a query to display all the employee names, employee salary from the table EMPLOYEE whose job is MANAGER.

E) Write a query to find the employee names from the table EMPLOYEE which have "ba" or "na" in them.

F) Write a PL/SQL block using SQL and Control Structures in PL/SQL.

### **Experiment-2**

A) Write a query to create a table called DEPARTMENT with the columns as given below.

<u>COLUMN NAME</u>	<u>TYPE</u>	<u>SIZE</u>
DeptNumber	Numeric	4
DeptName	Character	10

B) Write a query to count the number of employees who have drawing the salary more than 35000 per month in the table DEPARTMENT.

C) Write a query to find the highest salary and lowest salary of the employees in department number 10.

D) Write a query to count the number of employees in each department.

E) Write a query to remove the data from the table DEPARTMENT.

F) Write a PL/SQL Code using Basic Variable, Anchored Declarations, and Usage of Assignment Operation.

### **Experiment-3**

A) Write a query to print the employee name and their annual salary including commission.

B) Write a query to count the number of people with the same job.

C) Write a query to find the employees who earn a salary greater than the average salary for their department.

D) Write a query to create a view which contains employ name, job and annual salary of all managers.

E) Write a query to find the average salary of the employees in each department having more than three employees.

F) Write a PL/SQL Code using Packages.

#### **Experiment-4**

- A) Write a query to list all the database tables available in the current user.
- B) Write a query to delete the records from the table EMPLOYEE whose job is CLERK.
- C) Write a query to modify the salary column in the table EMPLOYEE for each employ salary is 25000 rupees only.
- D) Write a query to retrieve the information about the employees with respect to his salary in descending order.
- E) To create a view which consist of CUSTCODE, CUSTNAME, CUSTADDRESS of CUSTOMER table who belongs to Guntur.
- F) Write a PL/SQL Code Bind and Substitution Variables and print them.

#### **Experiment-5**

Consider TEST Table:

EMPNO	ENAME	SAL	COMM	DEPTNO
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1	SRINIVAS	5000	10	10
2	JONES	5000	10	20
3	VASU	4000	10	30
4	RAJU	2000	10	10
5	RAMU	1000	10	20
6	SURESH	1000	10	30
7	FORD	3000	10	10
8	BLAKE	2000	10	20

Perform the following:

- A) Write a query retrieving the information about the commission in terms of how many persons drawing the commission in the table TEST.
- B) Write a query to find the total salary of all the employees in the table TEST.
- C) Write a query to calculate the average salary of the employees in each department in the table TEST.
- D) Write a query if you want to retrieve the department numbers contained more than two employees in the table TEST.
- E) Write a query to calculate the total salary of all the employees for each department including commission in the table TEST.
- F) Write a PL/SQL Code using Cursors, Exceptions and Composite Data Types.

### **Experiment-6**

Consider DEPT table with the columns: DEPTNO, DNAME, LOC

Perform the following:

- A) Rename the table DEPT as DEPARTMENT
- B) Add a new column PINCODE with not null constraints to the existing table DEPT
- C) Rename the column DNAME to DEPTNAME in DEPT table
- D) Change the data type of column LOC as CHAR with size 10
- E) Save all the changes you have made to the table DEPT
- F) Write a PL/SQL program to find whether the given number is Palindrome or not.

### **Experiment-7**

Suppose that a faculty wants to keep records about the students, the desired records should maintain this information about each student: (Roll No, Full name, CGPA, Age, and Gender)

- A) Create the appropriate Table STUDENT.

Write SQL Queries to answer the following problems:

- B) List the names of all female students.
- C) What is the age of the youngest male student?
- D) List the name and the CGPA for all students who got above 6.5 CGPA ordered by their CGPAs then their names.
- E) Find out the Topper name.
- F) Write a PL/SQL program that calculates the electricity bill based on different slab rates:

The slab rates are as follows:

Up to 100 units: Rs 2.50 per unit

101 to 200 units: Rs 3.50 per unit

201 to 300 units: Rs 4.50 per unit

Above 300 units: Rs 5.50 per unit.