**PRACTICAL – 02**

**Aim :** Demonstration of Data Manipulation Language [DML] commands and execution of DML queries on relational databases.

**Problem Definition :**

Q1 ) Insert at least 10 rows in the tables created in Practical 01.

Q2) Demonstrate the difference between delete, truncate and drop table.

Q3) Use the HR schema to solve the following queries :

1. Display all rows of employees.
2. Display all rows of departments.
3. Display department\_id, department\_name, location\_id, manager\_id from departments.
4. Display “FNAME” instead of first\_name and “LNAME” instead of last\_name in the output.
5. To calculate a salary increase of $300 for all employees.
6. Displays the last name, salary, and annual compensation as one time bonus of 300 for all employees.
7. Add a monthly bonus of 300 to the monthly salary, and then multiply that subtotal with 12.
8. Which employees can earn a commission\_pct?
9. Display annual salary multiplied by commission\_pct.
10. Concatenate first\_name and last\_name.
11. Use of literal character string.
12. Display distinct department\_id from employees.
13. Display distinct department\_id, job\_id from employees.
14. Display employees of department\_id 90.
15. Display employees whose last name begins with “S”.
16. Display employees whose last name ends with “s”.
17. Display employees whose last name contains “o” in second place.
18. Display last names and hire dates of employees hired in 02.
19. Display employees whose salary is less than or equal to 3000.
20. Display employees whose salary is between 2500 and 3500.
21. Display employees whose job id is either SA\_MAN or SA\_REP.
22. Display last name and salary of employees who do not have a manager.
23. Display last name, job ID, and commission of all employees who are not entitled to earn a commission.
24. Display all employees whose salary is more than or equal to 10000 and job ID is Manager.
25. Display all employees whose salary is more than or equal to 10000 or job ID is Manager.
26. displays the last name and job ID of all employees whose job ID is not IT\_PROG, ST\_CLERK or SA\_REP.
27. display employees who do not earn salary between 10000 and 30000.
28. Display employees whose last name does not contain an “o” or “i”.
29. Select the row if an employee is a president and earns more than 15000 or if the employee is a sales representative.
30. Select the row if an employee is a president or a sales representative, and if the employees earns more than 15000.
31. Display employee data sorted according to hire\_date.
32. Display employee data sorted according to salary in descending order.
33. Display sorted data by annual salary.
34. Display sorted data according to department ID in ascending order and salary in descending order.
35. Display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions. Use the column’s numeric position in the ORDER BY clause.