



# INDIAN SCHOOL DARSAIT DEPARTMENT OF ICT



**Subject:** Computer Science

**Topic:** SQL

**Worksheet No. :** 2

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**Date:** \_\_\_\_\_

**Name of the Student :** \_\_\_\_\_ **Class:** XI A

**Roll Number :** \_\_\_\_\_

Consider the tables given below and write the SQL commands that follow:

**Table: Employee**

No	Name	Salary	Zone	Age	Grade	Dept
1	Mukul	30000	West	28	A	10
2	Kritika	35000	Centre	30	A	10
3	Naveen	32000	West	40		20
4	Uday	38000	North	38	C	30
5	Nupur	32000	East	26		20
6	Moksh	37000	South	28	B	10
7	Shelly	36000	North	26	A	30

**Table: Department**

Dept	DName	MinSal	MaxSal	HOD
10	Sales	25000	32000	1
20	Finance	30000	50000	5
30	Admin	25000	40000	7

**Create Table**

1. Create the table Employee and Department

**Insert data in a table**

2. Insert data in the table Employee and Department

**Simple Select**

3. Display the details of all the employees.
4. Display the Salary, Zone, and Grade of all the employees.
5. Display the records of all the employees along with their annual salaries. The Salary column of the table contains monthly salaries of the employees.
6. Display the records of all the employees along with their annual salaries. The Salary column of the table contains monthly salaries of the employees. The new column should be given the name "Annual Salary".

**Conditional Select using Where Clause**

7. Display the details of all the employees who are below 30 years of age.
8. Display the names of all the employees working in North zone.
9. Display the salaries of all the employees of department 10.

**Using NULL**

10. Display the details of all the employees whose Grade is NULL.
11. Display the details of all the employees whose Grade is not NULL.

**Using DISTINCT Clause**

12. Display the names of various zones from the table Employee. A zone name should appear only once.
13. Display the various department numbers from the table Employee. A department number should be displayed only once.

### **Using Logical Operators (NOT, AND, OR)**

14. Display the details of all the employees of department 10 who are above 30 years of age.
15. Display details of all the employees who are getting salary of more than 35000 in the department 30.
16. Display the names and salaries of all the employees who are not working in department 20.
17. Display names and salaries of all employees who are working neither in West zone nor in Centre zone.
18. Display the names of all the employees who are working in department 20 or 30.
19. Display the details of all the employees whose salary is between 32000 and 38000.
20. Display the details of all the employees whose grade is between 'A' and 'C'.
21. Display the details of all the employees aged above 30 in West zone.

### **Using IN Operator**

22. Display the names of all the employees who are working in department 20 or 30. (Using IN operator)
23. Display names and salaries of all employees who are working neither in West zone nor in Centre zone.

### **Using BETWEEN Operator**

24. Display the details of all the employees whose salary is between 32000 and 38000.
25. Display the details of all the employees whose grade is between 'A' and 'C'.

### **Using LIKE Operator**

26. Display the name, salary, and age of all the employees whose names start with 'M'.
27. Display the name, salary, and age of all the employees whose names end with 'a'.
28. Display the name, salary, and age of all the employees whose names contain 'a'
29. Display the name, salary, and age of all the employees whose names do not contain 'a'
30. Display the details of all the employees whose names contain 'a' as the second character.

### **Using Aggregate functions**

31. Display the sum and average of the salaries of all the employees.
32. Display the highest and the lowest salaries being paid in department 10.
33. Display the number of employees working in department 10.

### **Using ORDER BY clause**

34. Display the details of all the employees in the ascending order of their salaries.
35. Display the details of all the employees in the descending order of their names.
36. Display the details of all the employees in the ascending order of their grades and within grades in the descending order of their salaries.

### **Using GROUP BY clause**

37. Display the total number of employees in each department.
38. Display the highest salary, lowest salary, and average salary of each zone.
39. Display the average age of employees in each department only for those departments in which average age is more than 30.

### **Using UPDATE, DELETE, ALTER TABLE**

40. Put the grade B for all those whose grade is NULL.
41. Increase the salary of all the employees above 30 years of age by 10%.
42. Delete the records of all the employees whose grade is C and salary is below 30000.
43. Delete the records of all the employees of department 10 who are above 40 years of age.
44. Add another column HireDate of type Date in the Employee table.

### **JOIN of two tables**

45. Display the details of all the employees who work in Sales department.
46. Display the Name and Department Name of all the employees.
47. Display the names of all the employees whose salary is out of the specified range for the corresponding department.
48. Display the name of the department and the name of the corresponding HOD for all the departments.