**1 . What is SQL?**

**2. What is a Database?**

**3.** What do you mean by DBMS? What are its different types?

4. What are Constraints?

**5. What is the difference between BETWEEN and IN operators in SQL?**

**6. Write an SQL query to find names of employee start with ‘A’?**

**7. What is the difference between CHAR and VARCHAR data type in SQL?**

**8. Name different types of case manipulation functions available in SQL.**

**Upper(),lower(),substr(),length()**

**9. What do you mean by data definition language?**

**10. What do you mean by data manipulation language?**

**11. What do you mean by foreign key?**

**12. What is a join in SQL? What are the types of joins?**

**13. What is the difference between primary key and unique constraints?**

**14. What is database normalization?**

**15. What is the difference between having and where clause?**

# **16.** How to print duplicate rows in a table?

**17. What is a relationship and what are they?**

**18. What is sub query? What different types.**

**19. What is the difference between DELETE and TRUNCATE commands?**

**20. What is CLAUSE?**

**21. What is the difference between TRUNCATE and DROP statements?**

**22.  What are aggregate and scalar functions?**

**23.**

Queries

# **Query to find 2nd highest salary of an employee?**

Ans –

SELECT max(salary)

FROM EMPLOYEES WHERE

salary <> (SELECT max(salary) FROM EMPLOYEES);

1. **How to fetch common records from two tables?**

Ans –

select \* from table1 inner join table2 on join condition;

Or

select \* from table1 Intersect Select \* from table2

1. **How to fetch alternate records from a table?**

Ans –

select eid from employee\_info where mod(eid,2)=0

1. **How to select unique records from a table?**

Ans –

select DISTINCT colname from table\_name;

1. **What is the command used to fetch first 5 characters of the string?**

**Ans - eg.**

Select SUBSTRING(StudentName,1,5) as student\_name

from student

### **Write a query to get the current date.**

### Ans –

### SELECT SYSTDATE();

### **Write a query find number of employees whose DOB is between 02/05/1970 to 31/12/1975 and are grouped according to gender**

Ans –

SELECT COUNT(\*), Gender

FROM EmployeeInfo

WHERE DOB BETWEEN '02/05/1970 ' AND '31/12/1975'

GROUP BY Gender;

### **Write a query to retrieve Departments who have less than 2 employees working in it.**

Ans –

SELECT deptid, COUNT(eid) as 'EmpNo'

FROM EmployeeInfo

GROUP BY DEPARTMENT HAVING COUNT(eid) < 2;

1. **Get Name from employee table after replacing 'o' with '$’**

Ans - select REPLACE(FIRST\_NAME,'o','$') from employee