1. What are Scalar functions and write a query?

A user defined function written in sql and it returns a single value it is invloved.

The function which return only a single value from an input value.

LENGTH()

Length('string') select LENGTH(ename) from emp;

2. Explain joins with example and output?

The process of retrieving the data from multiple tables simultanously is known as joins

QUERY

select *

from EMP

where EMP.deptno in DEPT.deptno;

OUTPUT

ENAME	DEPTNO	DNAME	DEPTNO
SHANKAR	36	D1	10
AJAY	19	D2	20
VIGNESH	20	D3	30

3. Write a SQL query to Rename the column name

Alter table table name

rename column existing column name to new column name;

EX

ALTER TABLE STUDENT

RENAME COLUMN PHNO TO MOBILE NUM;

4. Write a SQL query to find duplicate records?

select *

from student

Group by student id

Having count (student id)>1;

5. How do we use the DISTINCT statement? What are its use?

Distinct is used to remove the duplicated repeated value from the result table distinct always return as a first argument in select clause.

select Distinct sal

from emp;

6.Remove duplicate from the table?

```
select Distinct sal from temp;
```

7. Print max salary for a particular department?

```
select Max(sal)
from dept
where Dname='MARKETING';
```

8.Use different operators in SQL?

```
Arithmatic operator (+ - * /) concatination operator (\parallel) logical operator (AND, OR, NOT) Relational operator (<, >, <=, >=) Comparison operator (=, =) special operator(IN, NOT IN, BETWEEN, NOT BETWEEN, LIKE, NOT LIKE,IS, ISNOT) Sub query operator(ALL, ANY, EXIST, NOT EXIST)
```

9. What is Query to display first 5 Records from Employee table?

```
select top5* from emp;
```

10. What is Query to display last 5 Records from Employee table?

11. How to fetch 3rd highest salary using Rank Function?

```
select sal,RANK(3),over(order by sal desc)RANK from emp;
```

12. How Can i create table with same structure with data of Employee table?

```
CREATE TABLE TEMP_EMP
AS
SELECT *
FROM EMP;
```

13.Find Query to get information of Employee where Employee is not assigned to the department

```
SELECT *
FROM EMP
WHERE DEPT IS NULL;
```