

Important SQL Interview Questions and Answers

swap

1) How to find third highest salary in employee Table?

```
-- Method 1 How to find third highest salary in employee Table?  
  
Select top 1 * from  
(Select top 3 * from employees  
order by salary desc) A  
order by salary asc;
```

100 %

Results Messages

	employee_name	salary
1	Ramu	50000

2) How to find the nth highest salary in SQL?

```
-- Method 2 How to find the nth highest salary in SQL?  
-- To find the 2nd highest sal set n = 2  
-- To find the 3rd highest sal set n = 3 and so on.  
-- Let's check to find 3rd highest salary:
```

```
select * from  
(Select *,  
 RANK() over( order by salary desc) RK  
 from employees) A  
Where RK=2;
```






100 %

Results Messages

	employee_name	salary	RK
1	Pichai	67000	2

3) How to find the nth highest salary in MySQL?

```
27  /* MYSQL To find the 2nd Highest salary query will return 2nd highest */
28  •  Select * from employees
29      order by salary desc limit 1,1;
30
31
32
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content:  | Fetch rows: 

	employee_name	salary
1	Pichai	67000

4) How to find duplicates in a table?

```
with cte as  
(select *,  
  ROW_NUMBER() over(partition by id order by age ) as RK  
  from emp_details)  
select * from cte  
where RK>1;
```

%

Results

Messages

id	name	age	RK
2	Balu	27	2
4	Edwin	25	2

5) How to delete duplicate in a table in SQL?

```
with cte as  
(select *,  
ROW_NUMBER() over(partition by id order by age ) as RK  
from emp_details)  
delete from cte  
where RK>1;
```

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Messages

(2 rows affected)

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6) Write a query to extract username(characters before @ symbol) from the Email_ID column?

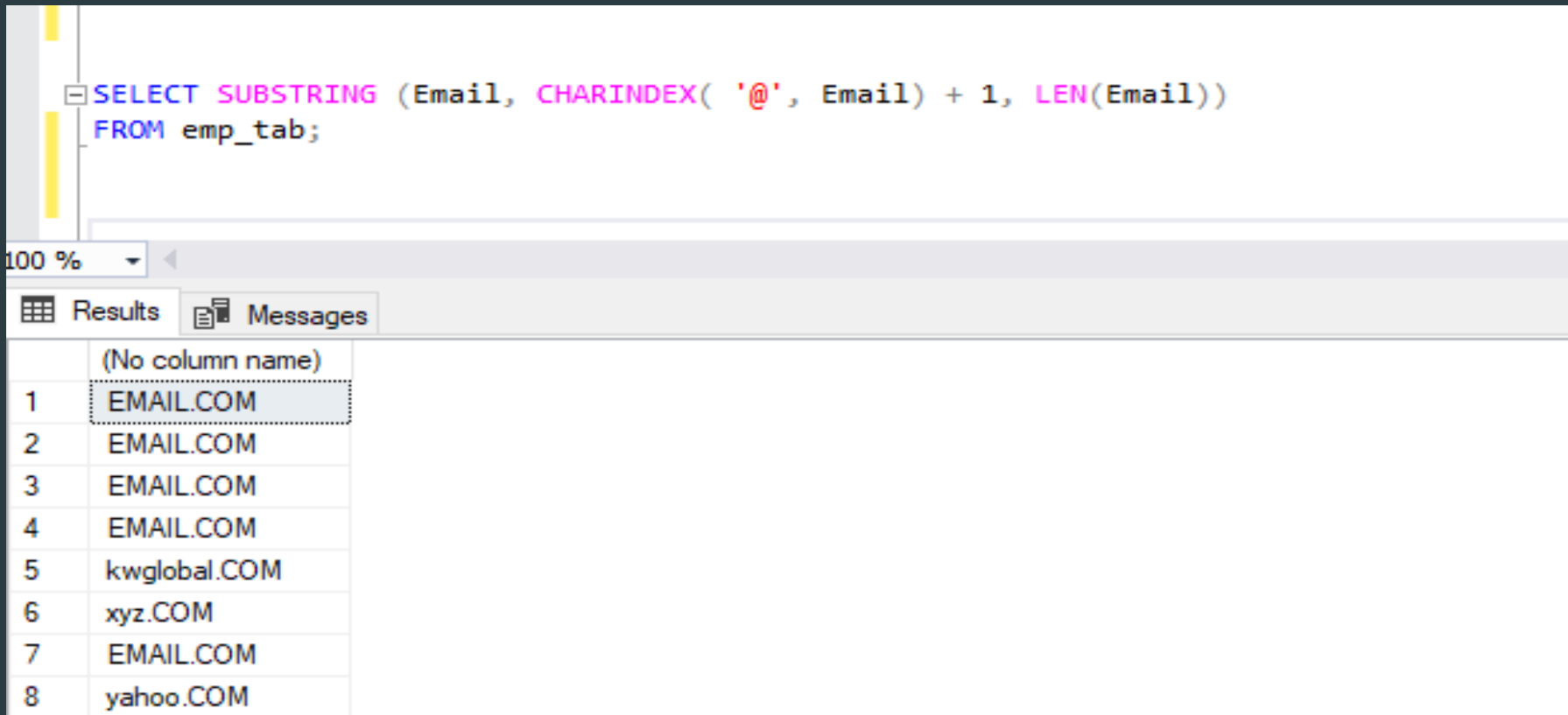
```
Select LEFT(email, charindex('@',email)-1) as Username from emp_tab;
```

100 %

Results Messages

	Username
1	AnbuCSEAWN
2	BabuIRYF
3	CarbuQZANB
4	DhanaJN
5	ElangoVDHS09
6	Selva235263
7	DevaFNJHC65
8	Mala8BHSBX5GCS

7) Extract domain of Email from table in SQL Server?



The screenshot displays the SQL Server Enterprise Manager interface. The top pane shows a query executed against the 'emp_tab' table. The query uses the SUBSTRING function along with CHARINDEX to locate the '@' symbol in the email addresses and extract the domain part. The bottom pane shows the results of this query in a table format.

```
SELECT SUBSTRING (Email, CHARINDEX( '@', Email) + 1, LEN(Email))  
FROM emp_tab;
```

	(No column name)
1	EMAIL.COM
2	EMAIL.COM
3	EMAIL.COM
4	EMAIL.COM
5	kwglobal.COM
6	xyz.COM
7	EMAIL.COM
8	yahoo.COM

8) Write a query to extract domain name like .com, .in, .au etc. from the Email_ID column?

```
--Method 1
Select right(email, LEN(email) - charindex('.',email)) from emp_tab;

--Method 2
SELECT substring(Email, CHARINDEX('.',email)+ 1, LEN(email)) FROM emp_tab;
```

00 %

Results Messages

	(No column name)
1	COM
2	COM
3	COM
4	COM
5	COM
6	COM
7	COM
8	COM

	(No column name)
1	COM
2	COM
3	COM
4	COM
5	COM
6	COM
7	COM

9) How to find employees whose salary is more than their manager?

```
select A.id,A.name,A.salary,A.Managerid,B.Salary as Manager_salary
from emp_tab1 A left join emp_tab1 B on A.MANAGERID=B.ID
where A.SALARY>B.SALARY;
```

00 %

Results Messages

	id	name	salary	Managerid	Manager_salary
1	1	Kumar	70000	3	60000

10) Employees who are not the managers?

```
select * from emp_tab1  
where ID not in (select MANAGERID from emp_tab1 where MANAGERID is not null);
```

161 %

Results Messages

	ID	name	SALARY	MANAGERID
1	1	Kumar	70000	3
2	2	Kanna	80000	4

11) MySQL Query to Copy, Duplicate or Backup Table and All the columns copied without any data.

```
-- MySQL Query to Copy, Duplicate or Backup Table
```

```
CREATE TABLE emp_dummy AS SELECT * FROM transactions;
```

```
-- All the columns copied without any data.
```

```
CREATE TABLE emp_dummy AS SELECT * FROM transactions  
where 1!=1;
```

12) How to swap Gender in employees?

```
update emp_Gender  
set Gender = Case when Gender = 'Male' Then 'Female'  
                Else 'Male'  
            End;  
  
select * from emp_gender;
```

195 %

Results Messages

	employee_name	salary	Gender
1	Ram	23000	Male
2	Sundari	44000	Female
3	Pichai	67000	Male
4	Babu	85000	Male
5	Anu	21000	Female
6	Arivuselvi	40000	Female
7	Ramu	50000	Male