

# Thanush M

Interview Questions on SQL are based on following two tables, Employee Table and Employee Incentive Table.

**Table Name : Employee EMP\_ID As PRIMARY KEY**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Venkatesh	S	100000	08/28/2015	BANKING
2	Ragavi	P	75000	08/28/2015	BUSINESS
3	Gopinath	C	50000	03/02/2016	PHARMA
4	Dinesh	G	50000	03/02/2016	INSURANCE
5	Saibabu	E	40000	07/08/2017	SOFTWARE
6	Hasan	S	29000	07/08/2017	MANUFACTURING
7	Divya	P	33000	07/08/2017	HEALTHCARE
8	Aravindan	R	40000	07/08/2017	HEALTHCARE
9	Sathish	MD	45000	03/02/2016	AUTOMOBILE
10	Prasanth	PKP	34000	03/02/2016	INSURANCE
11	Vijay	R	25684	03/02/2016	BUSINESS
12	Sivakumar	K	54789	03/02/2016	SOFTWARE

**Table Name : Incentives**

EMPLOYEE_REF_ID	INCENTIVE_DATE	INCENTIVE_AMOUNT
1	01-FEB-16	5000
2	01-FEB-16	3000
3	01-FEB-17	4000
1	01-JAN-17	4500
2	01-JAN-17	3500

#### SQL Queries Interview Questions and Answers on "SQL Select" - Examples

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##### 1. Get all employee details from the employee table

**ANS:** select \*from employee; #q1

##### 2. Get First\_Name,Last\_Name from employee table

**ANS:** select FIRST\_NAME, LAST\_NAME from Employee; #q2

##### 3. Get First\_Name from employee table using alias name "Employee Name"

**ANS:** select FIRST\_NAME as EMPLOYEE\_NAME FROM Employee; #q3

##### 4. Get First\_Name from employee table in upper case

**ANS:** select upper(FIRST\_NAME)as FIRST\_NAME from Employee; #q4

##### 5. Get First\_Name from employee table in lower case

**ANS:** select lower(FIRST\_NAME)as FIRST\_NAME from Employee; #q5

##### 6. Get unique DEPARTMENT from employee table

**ANS:** select distinct DEPARTMENT from employee; #q6

**7. Select first 3 characters of FIRST\_NAME from EMPLOYEE**

**ANS:** select substring(FIRST\_NAME,1,3)from employee; #q7

**8. Get position of 'a' in name 'ragavi' from employee table**

**ANS:** select position("a" in "ragavi") as position; #q8

**9. Get FIRST\_NAME from employee table after removing white spaces from right side**

**ANS:** select rtrim(first\_name) from employee; #q9

**10. Get FIRST\_NAME from employee table after removing white spaces from left side**

**ANS:** select ltrim(first\_name) from employee; #q10

**11. Get length of FIRST\_NAME from employee table**

**ANS:** select length(first\_name) from employee; #q11

**12. Get First\_Name from employee table after replacing 'a' with '\$'**

**ANS:** select replace(first\_name,"a" ,"\$")from employee; #q12

**13. Get First\_Name and Last\_Name as single column from employee table separated by a '\_' ANS:**  
select concat(first\_name,"\_",last\_name)from employee; #q13

**14. Get FIRST\_NAME ,Joining year,Joining Month and Joining Date from employee table**

**ANS:** select first\_name,year(joining\_date),month(joining\_date),day(joining\_date) from employee; #q14

## **Database SQL Queries Interview Questions and answers on "SQL Order By"**

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**15. Get all employee details from the employee table order by First\_Name Ascending**

**ANS:** select \*from employee order by first\_name ASC; #q15

**16. Get all employee details from the employee table order by First\_Name descending**

**ANS:** select \*from employee order by first\_name DESC; #q16

**17. Get all employee details from the employee table order by First\_Name Ascending and Salary descending**

**ANS:** select \*from employee order by first\_name ASC,salary desc; #q17

## SQL Queries Interview Questions and Answers on "SQL Where Condition" - Examples

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18. Get employee details from employee table whose employee name is "Dinesh"

ANS: select \* from employee where first\_name = "dinesh"; #q18

19. Get employee details from employee table whose employee name are "Dinesh" and "Roy"

ANS: select \* from employee where first\_name = "dinesh" or "roy"; #q19

20. Get employee details from employee table whose employee name are not "Dinesh" and "Roy"

ANS: select \* from employee where first\_name <> "dinesh" or "roy"; #q20

## SQL Queries Interview Questions and Answers on "SQL Wild Card Search" - Examples

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21. Get employee details from employee table whose first name starts with 's'

ANS: select \* from employee where first\_name like 's%'; #q21

22. Get employee details from employee table whose first name contains 'v'

ANS: select \* from employee where first\_name like '%v%'; #q22

Get

ANS:

23. Get employee details from employee table whose first name ends with 'n' select \* from employee  
where first\_name like '%n'; #q23

## SQL Queries Interview Questions and Answers on "SQL Pattern Matching" - Examples

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24. Get employee details from employee table whose first name ends with 'n' and name contains 4 letters

ANS: select \* from employee where first\_name like '%n' and length(first\_name)=4; #q24

25. Get employee details from employee table whose first name starts with 'J' and name contains 4 letters

ANS: select \* from employee where first\_name like 'j%' and length(first\_name)=4; #q25

26. Get employee details from employee table who's Salary greater than 60000

ANS: select \* from employee where salary>60000; #q26

27. Get employee details from employee table who's Salary less than 80000

ANS: select \* from employee where salary<80000; #q27

28. Get employee details from employee table who's Salary between 50000 and 80000

ANS: select \* from employee where salary>50000 and SALARY<80000; #q28

29. Get employee details from employee table whose name is venkatesh and ragavi

ANS: select \* from employee where FIRST\_NAME= "Venkatesh" or first\_name="ragavi"; #29

## SQL Queries Interview Questions and Answers on "SQL DATE Functions" - Examples

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30. Get employee details from employee table whose joining year is "2015"

ANS: select \* from employee where extract(year from joining\_date)=2015; #30

31. Get employee details from employee table whose joining month is "January"

**Get**

**ANS:**

**ANS: select \* from employee where extract(month from joining\_date)=01; #31**

**32. employee details from employee table who joined before January 1st 2017**

**select count(joining\_date),joining\_date from employee group by JOINING\_DATE having JOINING\_DATE=date(20170708);**

**33. Get employee details from employee table who joined after January 31<sup>st</sup> 2016**

**ANS: select employee\_Id,concat(first\_name," ",last\_name)as employee\_Name from employee where joining\_date="2017-07-08" order by EMPLOYEE\_ID DESC;**

**35. Get Joining Date and Time from employee table**

**ANS: SELECT DATE\_FORMAT(joining\_date,"%d %r")from employee;**

**36. Get Joining Date,Time including milliseconds from employee table**

**ANS: SELECT DATE\_FORMAT(joining\_date,"%d %r %f")from employee;**

**37. Get difference between JOINING\_DATE and INCENTIVE\_DATE from employee and incentives table**

**ANS: select datediff(incentives.Incentive\_Date,employee.joining\_date)from employee left outer join incentives on employee.employee\_ID=incentives.employee\_ref\_id;**

**38. Get database date**

**ANS: No Answer..**

## **SQL Queries Interview Questions and Answers on "SQL Escape Characters" - Examples**

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**39. Get names of employees from employee table who has '%' in Last\_Name. Tip : Escape character for special characters in a query.**

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**Get**

**ANS:**

**ANS:** select concat(first\_name+" "+last\_name)as employee\_Name from employee where last\_name = "%";

**40. Get Last Name from employee table after replacing special character with white space**

**ANS:** Select REPLACE(LAST\_NAME,'%',' ') from employee;

## **SQL Queries Interview Questions and Answers on "SQL Group By Functions" - Examples**

**41. department,total salary with respect to a department from employee table.**

**Select DEPARTMENT,sum(SALARY) as Total\_Salary from employee group by department;**

**42. Get department,total salary with respect to a department from employee table order by total salary descending**

**ANS:** Select DEPARTMENT,sum(SALARY) as Total\_Salary from employee group by department order by Total\_Salary desc;

## **SQL Queries Interview Questions and Answers on "SQL Mathematical Operations using Group By" - Examples**

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**43. Get department,no of employees in a department,total salary with respect to a department from employee table order by total salary descending**

**ANS:** Select DEPARTMENT,count(DEPARTMENT),sum(SALARY) Total\_Salary from employee group by DEPARTMENT order by Total\_Salary desc;

**44. Get department wise average salary from employee table order by salary ascending**

**ANS:** select DEPARTMENT, floor(avg(SALARY))salary from employee group by DEPARTMENT order by SALARY;

**45. Get department wise maximum salary from employee table order by salary ascending**

**ANS:** select DEPARTMENT, floor(max(SALARY))salary from employee group by DEPARTMENT order by SALARY;

**46. Get department wise minimum salary from employee table order by salary ascending**

**Get**

**ANS:**

**ANS: select DEPARTMENT, floor(min(SALARY))salary from employee group by DEPARTMENT order by SALARY;**

**47. Select no of employees joined with respect to year and month from employee table**

**ANS: select count(employee\_Id) from employee group by year(Joining\_Date),month(Joining\_Date);**

**48. Select department,total salary with respect to a department from employee table where total salary greater than 800000 order by Total\_Salary descending**

**ANS: Select DEPARTMENT,sum(SALARY) Total\_Salary from employee group by DEPARTMENT having Salary > 80000 order by Total\_Salary desc;**



## SQL Queries Interview Questions and Answers on "SQL Joins" - Examples

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49. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives

ANS: Select FIRST\_NAME, INCENTIVE\_AMOUNT from employee inner join incentives on employee.EMPLOYEE\_ID = incentives.EMPLOYEE\_REF\_ID;

50. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000

ANS: Select FIRST\_NAME, INCENTIVE\_AMOUNT from employee inner join incentives on employee.EMPLOYEE\_ID = incentives.EMPLOYEE\_REF\_ID and INCENTIVE\_AMOUNT > 3000;

51. Select first\_name, incentive amount from employee and incentives table for all employees even if they didn't get incentives

ANS: Select FIRST\_NAME, INCENTIVE\_AMOUNT from employee left join incentives on employee.EMPLOYEE\_ID = incentives.EMPLOYEE\_REF\_ID;

52. Select first\_name, incentive amount from employee and incentives table for all employees even if they didn't get incentives and set incentive amount as 0 for those employees who didn't get incentives.

ANS:

53. Select first\_name, incentive amount from employee and incentives table for all employees who got incentives using left join

ANS:

54. Select max incentive with respect to employee from employee and incentives table using sub query

ANS:

## Advanced SQL Queries Interview Questions and Answers on "Top N Salary" - Examples

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55. Select TOP 2 salary from employee table

ANS:

56. Select TOP N salary from employee table

ANS:

57. Select 2nd Highest salary from employee table ANS:

58. Select Nth Highest salary from employee table

ANS:

## SQL Queries Interview Questions and Answers on "SQL Union" - Examples

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59. Select First\_Name, LAST\_NAME from employee table as separate rows

ANS:

60. What is the difference between UNION and UNION ALL ?

ANS:

## "Advanced SQL Queries Interview Questions and Answers"

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61. Select employee details from employee table if data exists in incentive table ?

ANS:

62. How to fetch data that are common in two query results ?

ANS:

63. Get Employee ID's of those employees who didn't receive incentives without using sub query ?

ANS:

64. Select 20 % of salary from venkat , 10% of Salary for gopi and for other 15 % of salary from employee table

**ANS:**

65. Select Banking as 'Bank Dept', Insurance as 'Insurance Dept' and Services as 'Pharma Dept' from employee table

**ANS:**

66. Delete employee data from employee table who got incentives in incentive table **ANS:**

67. Insert into employee table Last Name with " ' " (Single Quote - Special Character)

**ANS:**

68. Select Last Name from employee table which contain only numbers **ANS:**

69. Write a query to rank employees based on their incentives for a month **ANS:**

70. Update incentive table where employee name is 'Dinesh'

**ANS:**