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**

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

select \* from employee\_Tables;

1. **Get First\_Name,Last\_Name from employee table**

select FIRST\_NAME,LAST\_NAME from employee\_Tables;

1. **Get First\_Name from employee table using alias name “Employee Name”**

select FIRST\_NAME as Employee\_NAME from employee\_Tables;

1. **Get First\_Name from employee table in upper case**

select upper(FIRST\_NAME) FROM employee\_Tables;

1. **Get First\_Name from employee table in lower case**

select lower(FIRST\_NAME) FROM employee\_Tables;

1. **Get unique DEPARTMENT from employee table**

select distinct DEPARTMENT from employee\_Tables;

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

select substring(FIRST\_NAME,1,3) from employee\_Tables;

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

select position("a"in"ragavi") from employee\_Tables where FIRST\_NAME="ragavi";

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

**Select rtrim(FIRST\_NAME) from employee\_Tables;**

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

**Select ltrim(FIRST\_NAME) from employee\_Tables;**

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

**select length(FIRST\_NAME) FROM employee\_Tables;**

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

**select replace(FIRST\_NAME,"a","$") from employee\_Tables;**

13. **Get First\_Name and Last\_Name as single column from employee table separated by a '\_'**

**Select FIRST\_NAME || '\_' || LAST\_NAME FIRST\_NAME from employee\_Tables;**

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

**Select extract(year from JOINING\_DATE )from employee\_Tables;**

**Select extract(month from JOINING\_DATE )from employee\_Tables;**

**Select extract(date from JOINING\_DATE )from employee\_Tables;**

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

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

**Select \* from employee\_Tables order by FIRST\_NAME;**

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

**Select \*from employee\_table order by FIRST\_NAME desc;**

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

**Select \*from employee\_Tables order by FIRST\_NAME asc SALARY desc;**

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

**18. Get employee details from employee table whose employee name is “Dinesh”**

**Select \* from employee\_Tables where FIRST\_NAME=”Dinesh”;**

**19. Get employee details from employee table whose employee name are “Dinesh” and “Roy”**

**Select \*from employee\_Tables where FIRST\_NAME in(“Dinesh”,”Roy”);**

**20. Get employee details from employee table whose employee name are not “Dinesh” and “Roy”**

**Select \* from employee\_Tables where FIRST\_NAME not in (“Dinesh”,”Roy”);**

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

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

**select\*from employee\_Tables where FIRST\_NAME like “s%”**

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

**select\*from employee\_Tables where FIRST\_NAME like “%v%”**

**23. Get employee details from employee table whose first name ends with 'n'**

**select\*from employee\_Tables where FIRST\_NAME like “%n”**

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

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

**Select \* from employee\_Tables where FIRST\_NAME like “\_%n”;**

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

**Select \*from employee\_Tables where FIRST\_NAME like ”J%\_”;**

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

**select FIRST\_NAME from employee\_Tables where SALARY>60000;**

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

**select FIRST\_NAME from employee\_Tables where SALARY<80000);**

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

**select FIRST\_NAME from employee\_Tables where (SALARY>=50000 and SALARY<=80000);**

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

**Select \* from employee\_Tables where FIRST\_NAME in(“Venkatesh”,”ragavi”);**

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

**30. Get employee details from employee table whose joining year is “2015”**

**Select \*from employee\_tables where extract(year from JOINING-DATE)=2015;**

**31. Get employee details from employee table whose joining month is “January”**

**Select \* from employee\_tables where extract(month from JOINING\_DATE)=01;**

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

**Select \* from employee\_tables where JOINING\_DATE < “2017-01-01”;**

**33. Get employee details from employee table who joined after January 31st 2016**

**Select \* from employee\_tables where JOINING\_DATE >”2016-01-31”;**

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

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

**Select microsecond(JOINING\_DATE) from employee\_tables;**

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

**Select FIRST\_NAME,INCENTIVE\_DATE – JOINING\_DATE from employee A inner join incentives B on A.EMPLOYEE\_ID=B.EMPLOYEE\_REF\_ID;**

**38. Get database date**

**Select now( );**

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

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

**Select FIRST\_NAME from employee\_tables where LAST\_NAME like ‘%\%%’;**

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

**Select REPLACE(LAST\_NAME,’%’,’ ‘)from employee\_tables;**

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

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

**Select DEPARTMENT,sum(SALARY) TOTAL\_SALARYfrom employee\_tables group by DEPARTMENT;**

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

**Select DEPARTMENT,sum(SALARY) TOTAL\_SALARYfrom employee\_tables group by DEPARTMENT order by TOTAL\_SALARY desc;**

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

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

**Select DEPARTMENT,count(FIRST\_NAME),sum(SALARY) TOTAL\_SALARY from employee\_table group by DEPARTMENT order by TOTAL\_SALARY desc;**

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

**Select DEPARTMENT,avg(SALARY) AVGSALARY from employee\_tables group by DEPARTMENT order by AVGSALARY Asc;**

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

**Select DEPARTMENT,max(SALARY) MAXSALARY from employee\_tables group by DEPARTMENT order by MAXSALARY Asc;**

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

**Select DEPARTMENT,min(SALARY) MINSALARY from employee\_tables group by DEPARTMENT order by MINSALARY Asc;**

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

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

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

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

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

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

**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.**

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

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

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

**55. Select TOP 2 salary from employee table**

**Select \* from(select \* from employee\_tables order by SALARY desc) where rownum<2;**

**56. Select TOP N salary from employee table**

**Select \* from(select \* from employee\_table order by SALARY desc) where rownum;**

**57. Select 2nd Highest salary from employee table**

**58. Select Nth Highest salary from employee table**

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

**59. Select First\_Name,LAST\_NAME from employee table as separate rows  
60. What is the difference between UNION and UNION ALL ?**

**"Advanced SQL Queries Interview Questions and Answers"**

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

**Select \* from employee where EXITS (select \* from Incentives);**

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

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

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

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

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

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

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

**Select \* from employee\_tables where lower(LAST\_NAME)=upper(LAST\_NAME);**

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

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