

## WORKER TABLE

Worker-id	First_Name	Last_Name	Salary	Joining Date	Dept
1	Monika	Arcya	1000000		HR
2	Nihauka	Venna	80000		Admin
3	Vishal	Singhal	3000000		HR
4	Amitabh	Singh	5000000		Admin
5	Vivek	Bhowali	5000000	"	
6	Vipul	Ohwani	2000000		Account
7	Satish	Kumar	75000		Account
8.	Deepika	Chabbar	900000		Admin

## BONUS - TABLE

Worker-ref-id	Bonus_Amount	Bonus_DATE
1	5000	
2	3000	
3	4000	
1	4500	11/11/2023
2	3500	

## Title - table

Worker-ref-id	Worker-title	Affected_from
1	Manager	
2	Executive	
8	Executive	
5	Manager	
4	Asst. Manager	
7	Executive	

# SQL Interview Question

Q1 OR GI DB

Worker Table

Q-1 What to fetch "first\_name" from worker table using the alias name as <worker\_name>

Ans Select first\_name as WorkerName from worker;

Q-2 To fetch "first\_name" from worker table in upper case.

Ans select upper(first\_name) from worker.

Q-3 To fetch unique value of Department from worker table.

Ans select distinct department from worker

OR

Select department ,  
group by department.

Q-4 To print first 3 character of first-name

Ans select substr(firstname, 1, 3) from worker.

Q.5 To find the position of the character ('b') in the first-name column 'Amitabh' from worker table.

INSTR()

Select INSTR(first-name, 'b') from worker  
where first-name = 'Amitabh';

O/P = 6

Q.6 To print the first-name from worker table after removing white spaces from the right side.

Ans RTRIM

Select RTRIM(first-name) from worker ,

Q.7 \_\_\_\_\_ from left side.

Ans Select LTRIM(first-name) from worker;

Q.8 That fetch the unique values of department from worker & prints its length.

Ans Select distinct department, length(department)  
from worker;

O/P	HR	2
	Admin	5
	Account	7

Q.9 To print the first-name from worker table after replacing 'a' with 'n'.

Ans select Replace(first-name, 'a', 'n') from worker;

Q.10 To print first-name & last-name from worker table into a single column complete name

Ans select concat(first-name, " ", last-name) as complete\_name from worker;

11 To print all worker details from the worker table order by first-name Ascending

Ans select \* from worker order by first-name asc

Amitay	Singh
Deepika	Chabbi
Monilca	

12 To print details from the worker table order by first-name ascending and department descending.

Ans select \* from worker order by first-name asc, department desc

13 To print details for worker with the first name as "Vipul" & Satisht from worker table.

Ans select \* from worker where first-name in ('Vipul', 'Satisht');

14 To print details of workers excluding first names, "Vipul" & "Satish" from Workers table.

Ans Select \* from workers where fname  
Not in ("Vipul", "Satish");

15 To print detail of workers with department name as "~~Marketing~~"; "Admin\*";

Ans Select \* from workers where department like "Admin%";

16 To print details of the workers whose first name contains 'a'

Ans Select \* from workers where fname  
like "%a%";

17 First name ends with 'a';  
\_\_\_\_\_  
like "%a";

18 First name ends with "h" & contains 6 alphabets;  
\_\_\_\_\_  
like "\_\_\_\_\_h";

19 whose salary lies b/w 1000000 & 5000000

Select \* from workers where salary  
between 1000000 AND 5000000;

who have joined in Feb 2014

Select \* from workers where year(joining  
date) = 2014 AND month(joining-date) = 02;

21 To fetch the count of employees working in the department 'Admin';

Select department, count(department) from worker

group by department where department = 'Admin'

To fetch worker full names with salaries

$\geq 50000$  and  $\leq 1000000$ .

Select concat(first\_name, last\_name) as fullname, salary from worker where salary between 50000 AND 1000000;

23 To fetch the no. of worker for each

department in the descending order.

Select department, count(worker\_id) from worker  
group by department order by count(worker\_id) desc;

Q24 To print details of the workers who are also managers.

Select \* from worker where worker\_id IN  
(Select worker-sup-id from title where  
worker\_title = "Manager");

Select w.\* from worker as w inner  
join title as t on worker\_id =  
worker-sup-id where t.worker\_title =  
"Manager";

25 To fetch number (more than 1) of some different titles in the ORG. of different types.

Select worker\_title, count(\*) from  
title group by worker\_title having  
count(\*) > 1

QW 26 To show only odd rows from a table:

Ans Select \* from worker where mod(worker-id, 2) ! = 0;

27 even  
Select \* from worker where mod(worker-id, 2) = 0;

Q.28 To clone a new table from another table.

Ans Create table Worker-clone like worker;  
Insert into worker-clone select \* from worker;

29 Write an SQL Query to fetch intersecting records of two tables.

Ans select ~~worker~~ from worker Inner join worker-clone using (worker-id);

30 To show records from one table that another table does not have.

Ans select ~~worker~~ from worker Left join worker-clone using (worker-id) where worker-clone.worker-id is Null;

31 To show the current date & time.

Select ~~current~~ curdate();

Select now;

32 To show top n (say 5) records of a table order by descending salary.

Ques Select \* from worker order by salary desc limit 5;

Q 33 To determine the  $n^{\text{th}}$  (say  $n=5$ ) highest salary from a table.

Ans Select \* from worker ~~order by salary~~ limit 5; OR

Select \* from worker where  
 $5 = (\text{select count}(\text{salary}) \text{ from worker}$   
~~group by salary~~ ~~order by~~  
~~count(salary) desc.)~~

~~co-related query~~ { Select \* from worker w1 where  
4 = ( select count(distinct (w2.salary))  
from worker w2 where  
w2.salary  $\geq$  w1.salary); }

Q 35 To fetch the list of employo with the same salary.

Ans Select w1.\* from worker w1, worker w2  
where w1.salary = w2.salary and  
w1.worker\_id != w2.worker\_id;

Q 36 To show the 2nd highest salary  
from table without using limit 2  
co-related query. [By using sub-query]

Select max(salary) from worker where  
salary not in (Select max(salary) from  
worker);

37 To show one row twice in  
various from a table.

Any Select \* from worker UNION ALL  
Select \* from worker Order by  
worker-id;

38 To list worker-id who does not  
get bonus;

Any Select worker-id from worker where  
<sup>not</sup> worker-ref-id  
worker-id in (select bcn from  
bonus b);

39 To fetch the first 50% records  
from a table-

Any Select \* from worker where  
worker-id <= (select count(worker-id)  
/2 from worker);

40 To fetch the departments that  
have less than 4 people in it.  
Any Select department, count(department)  
as depcount from worker,

group by department having  
depcount < 4;

41 To show all department along with the no. of people in there.

Ans select department, count(department) as depcount from worker group by department;

41 To show the last record of a table.

Ans select \* from worker where worker-id = (select max(worker-id) from worker);

42 To fetch the first row of a table.

Ans select \* from \_\_\_\_\_ (select min(—))

43 To fetch the last 5 record from a table:

Ans (select \* from worker group order by worker-id desc limit 5) order by worker-id;

44 To print the name of employees having the highest salary in each department.

Ans select rname from  
select w.department, w.f-name, w.salary  
from (select max(salary) as maxsal,  
department from worker group by department)  
as temp Inner join worker w on  
temp.department = w.department and  
temp.maxsal = w.salary.

46 To fetch the three max salaries from a table using co-related subquery.

Ans select distinct salary from worker w,  
where  $3 \geq (\text{select count (distinct salary) from worker } w_2 \text{ where } w_1.\text{salary} \geq w_2.\text{salary})$  order by  
 $w_1.\text{salary}$  desc ; OR  
select distinct salary from worker order by salary  
desc limit 3;

47 To fetch 3 min salary from table  
using correlated salary.

— where  $w_1.\text{salary} \geq w_2.\text{salary}$  —

48.) To fetch  $n^{\text{th}}$  max salaries from  
a table

— where  $n >=$  —

49 To fetch department along with  
total salaries paid for each  
of them.

select department, sum[salary] as  
dep\_sal from worker group by  
department;

50 To fetch the names of workers who earn the highest salary.

Select first-name , salary from workers where salary = (select max(salary) from workers);

51 Remove all the reversed pair from given table.

I/P $\rightarrow$	A	B
1	2	1
2	4	3
3	2	1
4	2	5
5	6	4
6	5	3
7	8	7

reverse pair :-

1,2  $\rightarrow$  2,1

2,3  $\rightarrow$  3,2

O/P $\rightarrow$	A	B
1	2	1
2	4	3
3	2	1
5	6	4
7	8	7

select \* from pairs left join  
pairs rt on lt.A = rt.B and  
lt.B = rt.A where rt.A is null  
OR lt.A < rt.A - OR

select \* from pairs p1 where not  
exists (select \* from pairs p2 where p1.B = p2.B  
AND p1.A = p2.A);