



## Worker table

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
001	Monika	Arora	100000	2014-02-20 09:00:00	HR
002	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
003	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
004	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
005	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
006	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
007	Satish	Kumar	75000	2014-01-20 09:00:00	Account
008	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

## Bonus

WORKER_REF_ID	BONUS_DATE	BONUS_AMOUNT
1	2016-02-20 00:00:00	5000
2	2016-06-11 00:00:00	3000
3	2016-02-20 00:00:00	4000
1	2016-02-20 00:00:00	4500
2	2016-06-11 00:00:00	3500

## Title

WORKER_REF_ID	WORKER_TITLE	AFFECTED_FROM
1	Manager	2016-02-20 00:00:00
2	Executive	2016-06-11 00:00:00
8	Executive	2016-06-11 00:00:00
5	Manager	2016-06-11 00:00:00
4	Asst. Manager	2016-06-11 00:00:00
7	Executive	2016-06-11 00:00:00
6	Lead	2016-06-11 00:00:00
3	Lead	2016-06-11 00:00:00

Query Number	Query Description	SQL Query
Q-1	Fetch "FIRST_NAME" from the Worker table using the alias name <WORKER_NAME>	SELECT FIRST_NAME AS WORKER_NAME FROM Worker
Q-2	Fetch "FIRST_NAME" from the Worker table in upper case	SELECT UPPER(FIRST_NAME) FROM Worker
Q-3	Fetch unique values of DEPARTMENT from the Worker table	SELECT DISTINCT DEPARTMENT FROM Worker
Q-4	Print the first three characters of FIRST_NAME from the Worker table	SELECT SUBSTRING(FIRST_NAME, 1, 3) FROM Worker
Q-5	Find the position of the alphabet 'a' in the FIRST_NAME column 'Amitabh' from the Worker table	SELECT INSTR(FIRST_NAME, 'a') FROM Worker WHERE FIRST_NAME = 'Amitabh'
Q-6	Print the FIRST_NAME from the Worker table after removing white spaces from the right side	SELECT RTRIM(FIRST_NAME) FROM Worker
Q-7	Print the DEPARTMENT from the Worker table after removing white spaces from the left side	SELECT LTRIM(DEPARTMENT) FROM Worker
Q-8	Fetch the unique values of DEPARTMENT from the Worker table and print its length	SELECT DISTINCT DEPARTMENT, LENGTH(DEPARTMENT) FROM Worker

Q-9	Print the FIRST_NAME from the Worker table after replacing 'a' with 'A'	SELECT REPLACE(FIRST_NAME, 'a', 'A') FROM Worker
Q-10	Print the FIRST_NAME and LAST_NAME from the Worker table into a single column COMPLETE_NAME. Separate them with a space	SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS COMPLETE_NAME FROM Worker
Q-11	Print all Worker details from the Worker table ordered by FIRST_NAME ascending	SELECT * FROM Worker ORDER BY FIRST_NAME ASC
Q-12	Print all Worker details from the Worker table ordered by FIRST_NAME ascending and DEPARTMENT descending	SELECT * FROM Worker ORDER BY FIRST_NAME ASC, DEPARTMENT DESC
Q-13	Print details for Workers with the first names "Vipul" and "Satish" from the Worker table	SELECT * FROM Worker WHERE FIRST_NAME IN ('Vipul', 'Satish')
Q-14	Print details of workers excluding first names "Vipul" and "Satish" from the Worker table	SELECT * FROM Worker WHERE FIRST_NAME NOT IN ('Vipul', 'Satish')
Q-15	Print details of Workers with DEPARTMENT name as "Admin"	SELECT * FROM Worker WHERE DEPARTMENT = 'Admin'
Q-16	Print details of the Workers whose FIRST_NAME contains 'a'	SELECT * FROM Worker WHERE FIRST_NAME LIKE '%a%'

Q-17	Print details of the Workers whose FIRST_NAME ends with 'a'	SELECT * FROM Worker WHERE FIRST_NAME LIKE '%a'
Q-18	Print details of the Workers whose FIRST_NAME ends with 'h' and contains six alphabets	SELECT * FROM Worker WHERE FIRST_NAME LIKE '____h'
Q-19	Print details of the Workers whose SALARY lies between 100000 and 500000	SELECT * FROM Worker WHERE SALARY BETWEEN 100000 AND 500000
Q-20	Print details of the Workers who joined in Feb'2014	SELECT * FROM Worker WHERE JOINING_DATE LIKE '%Feb-2014'
Q-21	Fetch the count of employees working in the department 'Admin'	SELECT COUNT(*) FROM Worker WHERE DEPARTMENT = 'Admin'
Q-22	Fetch worker names with salaries >= 50000 and <= 100000	SELECT WORKER_NAME FROM Worker WHERE SALARY BETWEEN 50000 AND 100000
Q-23	Fetch the number of workers for each department in descending order	SELECT DEPARTMENT, COUNT() FROM Worker GROUP BY DEPARTMENT ORDER BY COUNT() DESC
Q-24	Print details of the Workers who are also Managers	SELECT * FROM Worker INNER JOIN Manager ON Worker.WORKER_ID = Manager.WORKER_ID
Q-25	Fetch duplicate records having matching data in some fields of a	SELECT * FROM Worker GROUP BY FIRST_NAME, LAST_NAME, DEPARTMENT HAVING COUNT(*)

	table	> 1
Q-26	Show only odd rows from a table	SELECT * FROM (SELECT ROW_NUMBER() OVER (ORDER BY <COLUMN>) AS RowNum, * FROM <TABLE_NAME>) AS t WHERE RowNum % 2 <> 0
Q-27	Show only even rows from a table	SELECT * FROM (SELECT ROW_NUMBER() OVER (ORDER BY <COLUMN>) AS RowNum, * FROM <TABLE_NAME>) AS t WHERE RowNum % 2 = 0
Q-28	Clone a new table from another table	CREATE TABLE NewTable AS SELECT * FROM ExistingTable
Q-29	Fetch intersecting records of two tables	SELECT * FROM Table1 INNER JOIN Table2 ON Table1.Column = Table2.Column
Q-30	Show records from one table that another table does not have	SELECT * FROM Table1 WHERE NOT EXISTS (SELECT * FROM Table2 WHERE Table1.Column = Table2.Column)
Q-31	Show the current date and time	SELECT CURRENT_TIMESTAMP
Q-32	Show the top n (say 10) records of a table	SELECT * FROM <TABLE_NAME> LIMIT 10
Q-33	Determine the nth (say n=5) highest salary from a table	SELECT DISTINCT Salary FROM <TABLE_NAME> ORDER BY Salary

		DESC LIMIT 5, 1
Q-34	Determine the 5th highest salary without using the LIMIT clause	SELECT Salary FROM <TABLE_NAME> t1 WHERE 5 = (SELECT COUNT(DISTINCT t2.Salary) FROM <TABLE_NAME> t2 WHERE t2.Salary > t1.Salary)
Q-35	Fetch records from a table based on a specific date range	SELECT * FROM <TABLE_NAME> WHERE DATE_COLUMN BETWEEN 'start_date' AND 'end_date'
Q-36	Calculate the average salary of employees in each department	SELECT DEPARTMENT, AVG(SALARY) FROM Worker GROUP BY DEPARTMENT
Q-37	Print the total number of employees in each department	SELECT DEPARTMENT, COUNT(*) FROM Worker GROUP BY DEPARTMENT
Q-38	Calculate the total salary expenditure of each department	SELECT DEPARTMENT, SUM(SALARY) FROM Worker GROUP BY DEPARTMENT
Q-39	Calculate the maximum salary in each department	SELECT DEPARTMENT, MAX(SALARY) FROM Worker GROUP BY DEPARTMENT
Q-40	Calculate the minimum salary in each department	SELECT DEPARTMENT, MIN(SALARY) FROM Worker GROUP BY DEPARTMENT
Q-41	Print the nth (say n=5) highest	SELECT Salary FROM <TABLE_NAME> ORDER BY Salary

	salary from a table	DESC LIMIT 4, 1
Q-42	Print the names of employees who earn more than their managers	SELECT w.FIRST_NAME FROM Worker w INNER JOIN Manager m ON w.WORKER_ID = m.WORKER_ID WHERE w.SALARY > m.SALARY
Q-43	Print the names of employees who earn the same salary as their managers	SELECT w.FIRST_NAME FROM Worker w INNER JOIN Manager m ON w.WORKER_ID = m.WORKER_ID WHERE w.SALARY = m.SALARY
Q-44	Print the names of employees who earn more than the average salary	SELECT FIRST_NAME FROM Worker WHERE SALARY > (SELECT AVG(SALARY) FROM Worker)
Q-45	Print the names of employees who joined before Jan 2022	SELECT FIRST_NAME FROM Worker WHERE JOINING_DATE < '2022-01-01'
Q-46	Print the names of employees who have duplicate salaries	SELECT FIRST_NAME, SALARY FROM Worker GROUP BY FIRST_NAME, SALARY HAVING COUNT(*) > 1
Q-47	Print the names of employees who have duplicate salaries but different names	SELECT w1.FIRST_NAME, w1.SALARY FROM Worker w1 INNER JOIN Worker w2 ON w1.SALARY = w2.SALARY AND w1.FIRST_NAME <> w2.FIRST_NAME

Q-48	Print the names of employees who have duplicate salaries and names	SELECT FIRST_NAME, SALARY FROM Worker GROUP BY FIRST_NAME, SALARY HAVING COUNT(*) > 1
Q-49	Calculate the total salary expenditure for each department and sort the result in descending order of the expenditure	SELECT DEPARTMENT, SUM(SALARY) AS TOTAL_SALARY FROM Worker GROUP BY DEPARTMENT ORDER BY TOTAL_SALARY DESC
Q-50	Print the details of the oldest and youngest employees	SELECT * FROM Worker WHERE AGE IN (SELECT MAX(AGE) FROM Worker) UNION SELECT * FROM Worker WHERE AGE IN (SELECT MIN(AGE) FROM Worker)