

MySQL Query Examples

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I want you to create a MySQL database according to below questions and insert data into table and you have to write all queries. Q-1. Write an SQL query to fetch "FIRST_NAME" from Worker table using the alias

name as <WORKER_NAME>.

Q-2. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

Q-3. Write an SQL query to show the last 5 record from a table.

Q-4. Write an SQL query to print the first three characters of FIRST_NAME from Worker table.

Q-5. Write an SQL query to find the position of the alphabet ('a') in the first name column 'Amitabh' from Worker table.

Q-6. Write an SQL query to print the name of employees having the highest salary in each department.

Q-7. Write an SQL query to print the FIRST_NAME from Worker table after removing white spaces from the right side.

Q-8. Write an SQL query that fetches the unique values of DEPARTMENT from Worker table and prints its length.

Q-9. Write an SQL query to fetch nth max salaries from a table.

Q-10. Write an SQL query to print the FIRST_NAME from Worker table after replacing 'a' with 'A'.

Q-11. Write an SQL query to print all Worker details from the Worker table order by FIRST_NAME Ascending and DEPARTMENT Descending.

Q-12. Write an SQL query to fetch the names of workers who earn the highest salary.

Q-13. Write an SQL query to print details of workers excluding first names, "Vipul" and "Satish" from Worker table.

Q-14. Write an SQL query to print details of the Workers whose FIRST_NAME ends with 'h' and contains six alphabets.

Q-15. Write a query to validate Email of Employee.

Q-16. Write an SQL query to print details of the Workers who have joined in Feb'2014.

Q-17. Write an SQL query to fetch duplicate records having matching data in some fields of a table.

Q-18. How to remove duplicate rows from Employees table.

Q-19. Write an SQL query to show only odd rows from a table.

Q-20. Write an SQL query to clone a new table from another table.

Q-21. Write an SQL query to fetch intersecting records of two tables.

Q-22. Write an SQL query to show records from one table that another table does not have.

Q-22. Write an SQL query to show the top n (say 10) records of a table.

Q-23. Write an SQL query to determine the nth (say n=5) highest salary from a table.

Q-24. Write an SQL query to determine the 5th highest salary without using TOP or limit method.

Q-25. Write an SQL query to fetch the list of employees with the same salary.



Below is the complete MySQL database setup, along with all the required queries for your task. Each query is labeled according to its question number.

1. Create Database and Table

```
sql

-- Create the database
CREATE DATABASE Company;

-- Use the database
USE Company;

-- Create the Worker table
CREATE TABLE Worker (
    WORKER_ID INT AUTO_INCREMENT PRIMARY KEY,
    FIRST_NAME VARCHAR(50),
    LAST_NAME VARCHAR(50),
    DEPARTMENT VARCHAR(50),
    SALARY INT,
    JOINING_DATE DATE,
    EMAIL VARCHAR(100)
);

-- Insert data into Worker table
INSERT INTO Worker (FIRST_NAME, LAST_NAME, DEPARTMENT, SALARY, JOINING_DATE, EMAIL)
VALUES
('Amitabh', 'Bachchan', 'HR', 80000, '2014-02-15', 'amitabh.b@company.com'),
('Vipul', 'Kumar', 'IT', 90000, '2014-03-10', 'vipul.k@company.com'),
('Satish', 'Sharma', 'Finance', 85000, '2014-02-28', 'satish.s@company.com'),
('Amit', 'Singh', 'IT', 75000, '2014-02-05', 'amit.s@company.com'),
('Rahul', 'Verma', 'HR', 60000, '2015-01-10', 'rahul.v@company.com'),
('Mohit', 'Khan', 'IT', 120000, '2014-02-25', 'mohit.k@company.com'),
('Rakesh', 'Sethi', 'Finance', 95000, '2016-05-15', 'rakesh.s@company.com');
```

2. SQL Queries

Q-1 Fetch `FIRST_NAME` using alias `<WORKER_NAME>`.

```
sql

SELECT FIRST_NAME AS WORKER_NAME FROM Worker;
```

Q-2 Fetch unique values of `DEPARTMENT`.

sql

```
SELECT DISTINCT DEPARTMENT FROM Worker;
```

Q-3 Show the last 5 records.

sql

```
SELECT * FROM Worker  
ORDER BY WORKER_ID DESC  
LIMIT 5;
```

Q-4 Print the first three characters of `FIRST_NAME`.

sql

```
SELECT SUBSTRING(FIRST_NAME, 1, 3) AS FIRST_THREE_CHAR FROM Worker;
```

Q-5 Find the position of 'a' in `FIRST_NAME` = 'Amitabh'.

sql

```
SELECT INSTR('Amitabh', 'a') AS POSITION;
```

Q-6 Employees with the highest salary in each department.

sql

```
SELECT DEPARTMENT, FIRST_NAME, MAX(SALARY) AS HIGHEST_SALARY  
FROM Worker  
GROUP BY DEPARTMENT;
```

Q-7 Remove trailing spaces from `FIRST_NAME`.

sql

```
SELECT RTRIM(FIRST_NAME) AS CLEANED_NAME FROM Worker;
```

Q-8 Fetch unique `DEPARTMENT` values and their length.

sql

```
SELECT DISTINCT DEPARTMENT, LENGTH(DEPARTMENT) AS DEPT_LENGTH FROM Worker;
```

Q-9 Fetch the nth max salary.

sql

```
SELECT DISTINCT SALARY
FROM Worker
ORDER BY SALARY DESC
LIMIT 1 OFFSET n-1; -- Replace 'n-1' with the desired rank.
```

Q-10 Replace 'a' with 'A' in `FIRST_NAME`.

sql

```
SELECT REPLACE(FIRST_NAME, 'a', 'A') AS MODIFIED_NAME FROM Worker;
```

Q-11 Order by `FIRST_NAME` Ascending, `DEPARTMENT` Descending.

sql

```
SELECT * FROM Worker
ORDER BY FIRST_NAME ASC, DEPARTMENT DESC;
```

Q-12 Workers with the highest salary.

sql

```
SELECT *
FROM Worker
WHERE SALARY = (SELECT MAX(SALARY) FROM Worker);
```

Q-13 Exclude `FIRST_NAME` = 'Vipul' and 'Satish'.

sql

```
SELECT *
FROM Worker
WHERE FIRST_NAME NOT IN ('Vipul', 'Satish');
```

Q-14 Workers with `FIRST_NAME` ending with 'h' and 6 letters.

sql

```
SELECT *  
FROM Worker  
WHERE FIRST_NAME LIKE '____h';
```

Q-15 Validate `EMAIL`.

sql

```
SELECT *  
FROM Worker  
WHERE EMAIL LIKE '%_@_%._%';
```

Q-16 Workers who joined in Feb 2014.

sql

```
SELECT *  
FROM Worker  
WHERE MONTH(JOINING_DATE) = 2 AND YEAR(JOINING_DATE) = 2014;
```

Q-17 Fetch duplicate records.

sql

```
SELECT FIRST_NAME, LAST_NAME, COUNT(*)  
FROM Worker  
GROUP BY FIRST_NAME, LAST_NAME  
HAVING COUNT(*) > 1;
```

Q-18 Remove duplicate rows.

sql

```
DELETE FROM Worker  
WHERE WORKER_ID NOT IN (  
    SELECT MIN(WORKER_ID)  
    FROM Worker  
    GROUP BY FIRST_NAME, LAST_NAME, DEPARTMENT, SALARY, JOINING_DATE, EMAIL  
);
```

Q-19 Fetch only odd rows.

sql

```
SELECT *  
FROM Worker  
WHERE MOD(WORKER_ID, 2) <> 0;
```

Q-20 Clone a new table.

sql

```
CREATE TABLE Worker_Clone AS  
SELECT * FROM Worker;
```

Q-21 Fetch intersecting records between two tables.

sql

```
SELECT *  
FROM Worker  
INTERSECT  
SELECT *  
FROM AnotherTable; -- Replace AnotherTable with the actual table name.
```

Q-22 Show records from `Worker` not in `AnotherTable`.

sql

```
SELECT *  
FROM Worker  
WHERE WORKER_ID NOT IN (SELECT WORKER_ID FROM AnotherTable);
```

Q-23 Show top 10 records.

sql

```
SELECT *  
FROM Worker  
LIMIT 10;
```

Q-24 5th highest salary without `TOP` or `LIMIT`.

sql

```
SELECT MIN(SALARY) AS 5th_HIGHEST_SALARY  
FROM (  
    SELECT DISTINCT SALARY  
    FROM Worker
```

```
ORDER BY SALARY DESC  
LIMIT 5  
) AS Temp;
```

Q-25 Employees with the same salary.

sql

```
SELECT SALARY, GROUP_CONCAT(FIRST_NAME) AS EMPLOYEES  
FROM Worker  
GROUP BY SALARY  
HAVING COUNT(*) > 1;
```

Let me know if you need further assistance!