

MySQL Tutorial: Show all Employees who were Hired the First Half of the Month

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Introduction

The following MySQL script focuses on managing employee records. It entails creating a database, defining a table, populating it with relevant data, and extracting specific information about employees who joined in the first 15 days of the current month and year.

Step 1: Create a Database

```
1 CREATE DATABASE IF NOT EXISTS hr_employees;
```

Explanation:

This command creates a database named `my_database` if it doesn't already exist.

Step 2: Switch to the Database

```
1 USE hr_employees;
```

Explanation:

This command sets the active database context to `my_database` for subsequent operations.

Step 3: Table Definition (Employee)

```
1 CREATE TABLE IF NOT EXISTS employees (  
2     id INT AUTO_INCREMENT PRIMARY KEY,  
3     first_name VARCHAR(50),  
4     last_name VARCHAR(50),  
5     join_date DATE  
6 );
```

Explanation:

Here, a table named `employees` is created to store employee information. It contains columns for `id` (auto-incrementing unique identifier), `first_name`, `last_name`, and `join_date`.

Step 4: Data Population

```
1 -- Sample data insertion  
2 INSERT INTO employees (first_name, last_name, join_date)  
3 VALUES  
4 ('Amit', 'Kumar', '2023-09-01'),  
5 ('Priya', 'Sharma', '2023-09-05'),  
6 -- ... (additional data rows)  
7 ('Anjali', 'Mishra', '2023-09-17');
```

Explanation:

This section inserts sample data into the `employees` table. Each `INSERT` statement adds a new employee's first name, last name, and their joining date.

Step 5: Data Extraction

```
1 SELECT first_name, last_name
2 FROM employees
3 WHERE YEAR(join_date) = YEAR(CURDATE())
4 AND MONTH(join_date) = MONTH(CURDATE())
5 AND DAY(join_date) <= 15;
```

Explanation:

This query retrieves the first and last names of employees who joined in the first 15 days of the current month and year. `YEAR(join_date)` and `MONTH(join_date)` extract the year and month from the `join_date` column respectively. `DAY(join_date) <= 15` ensures that only employees who joined in the first 15 days are included.

Conclusion

This MySQL script demonstrates the process of creating a database, defining a table, populating it with data, and extracting specific information about employees. It focuses on those who joined in the initial 15 days of the current month and year. This knowledge is crucial for effective database management in MySQL.