

# Project 1 | Create Simple Employee DataBase

- In this project, we will be creating a simple employee database using MySQL Workbench. The database will consist of a single table to store employee information, such as their name, contact details, hire date, and salary.
- By creating this database, we will learn how to create a new schema in MySQL Workbench, create a table with multiple columns, insert sample data into the table, retrieve data using SELECT queries, update data using UPDATE queries, and delete data using DELETE queries.
- This project is ideal for beginners who are new to MySQL and want to learn the basics of creating a database. It will provide a solid foundation for future projects and help you understand how to work with MySQL databases using MySQL Workbench.

## Step-1

- Create a new schema in MySQL Workbench and name it "**employee\_db**".
- Create a new table named "employees" with the following columns:

**id INT, primary key, auto-increment**  
**first\_name (VARCHAR(50))**  
**last\_name (VARCHAR(50))**  
**email VARCHAR(100)**  
**phone VARCHAR(20)**  
**address (VARCHAR(100))**  
**hire\_date (DATE)**  
**salary (DECIMAL(10, 2))**

- Here's the SQL code to create the "employees" table  
**CREATE TABLE employee\_db.employees ();**

## **Step-2**

- Insert some sample data into the "employees" table. Here's some sample data:

```
INSERT INTO employee_db.employees (first_name, last_name, email, phone, address, hire_date, salary)
```

```
VALUES
```

```
('John', 'Doe', 'johndoe@example.com', '123-456-7890', '123 Main St, Anytown USA', '2021-01-01', 50000.00),
```

```
('Jane', 'Doe', 'janedoe@example.com', '123-456-7890', '123 Main St, Anytown USA', '2021-01-01', 60000.00),
```

```
('Bob', 'Smith', 'bobsmith@example.com', '123-456-7890', '123 Main St, Anytown USA', '2021-01-01', 70000.00),
```

```
('Alice', 'Jones', 'alicejones@example.com', '123-456-7890', '123 Main St, Anytown USA', '2021-01-01', 80000.00);
```

## **Step-3**

- Retrieve data from the "employees" table using a SELECT query. Here's an example query to retrieve all data:

```
SELECT * FROM employee_db.employees;
```

## **Step-4**

- Update an employee's salary using an UPDATE query. Here's an example query to update Alice Jones' salary to \$90,000.00:


```
UPDATE employee_db.employees SET salary = 90000.00 WHERE id = 4;
```

## **Step-5**

- Delete an employee using a DELETE query. Here's an example query to delete Bob Smith from the "employees" table:

```
DELETE FROM employee_db.employees WHERE id = 3;
```

- That's it! With this simple employee database, you can track employee information, such as their name, contact details, hire date, and salary. As your needs grow, you can add more columns and features to the database to make it more robust.

A rectangular image with a black border. The background is a photograph of a sunset or sunrise sky with soft, wispy clouds in shades of blue, orange, and pink. The sun is visible as a bright glow on the horizon. Centered over the image is a quote in bold, black, sans-serif capital letters.

**SUCCESS IS NOT FINAL;  
FAILURE IS NOT FATAL:  
IT IS THE COURAGE TO CONTINUE  
THAT COUNTS.**

WINSTON S. CHURCHILL