EMPLOYEE PAYROLL SYSTEM SCHEMA

```
# Create Database #
CREATE DATABASE Emp _Payroll _System;
USE Emp _Payroll _System;

# Create Employees Table #
CREATE TABLE Employees (
    employee _id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    employee _name VARCHAR(255) NOT NULL,
    department VARCHAR(100) NOT NULL,
    position VARCHAR(100) NOT NULL,
    hire _date DATE NOT NULL,
    base _salary DECIMAL(10 , 2 ) NOT NULL
);
```

```
# Create Attendance Table #
CREATE TABLE Attendance (
   attendance _id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
   employee _id INT NOT NULL,
   attendance _date DATE NOT NULL,
   status ENUM('Present', 'Absent', 'Leave') NOT NULL,
   FOREIGN KEY (employee _id)
      REFERENCES Employees (employee _id)
      ON DELETE CASCADE
);

# Create Salaries Table #
CREATE TABLE Salaries (
   salary _id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
   employee _id INT NOT NULL,
   base _salary DECIMAL(10 , 2 ) NOT NULL,
   bonus DECIMAL(10 , 2 ) NOT NULL,
   deductions DECIMAL(10 , 2 ) NOT NULL,
   month VARCHAR(20) NOT NULL,
   year INT NOT NULL,
   FOREIGN KEY (employee _id)
      REFERENCES Employees (employee _id)
      ON DELETE CASCADE
);
```

```
# Create Payroll Table #
CREATE TABLE Payroll (
    payroll _id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    employee _id INT NOT NULL,
    total _salary DECIMAL(10 , 2 ) NOT NULL,
    payment _date DATE NOT NULL,
    FOREIGN KEY (employee _id)
        REFERENCES Employees (employee _id)
        ON DELETE CASCADE
);

# Insert Data into Employees Table #
INSERT INTO Employees (employee _name, department, position, hire _date,
base _salary) VALUES
('Roshan Rana', 'Finance', 'Manager', '2025-02-12', 50000),
('Rohit Rana', 'HR', 'HR Specialist', '2025-03-10', 40000),
('Aarav Rana', 'RND', 'RND Manager', '2025-04-10', 45000),
('Ishaan Rana', 'Marketing', 'Marketing Manager', '2025-05-11', 38000),
('Aarush Rana', 'Sales', 'Sales Executive', '2025-06-12', 30000),
('Aditya Rana', 'Customer Service', 'Customer Manager', '2025-03-16', 48000),
('Kabir Khan', 'Operations', 'Operations Manager', '2025-08-14', 52000),
('Aadavan Rana', 'Accounting', 'Accounting Manager', '2025-04-18', 46000),
('Arjun Rana', 'Production', 'Production Manager', '2025-05-17', 50000),
('Arnav Rana', 'Maintenance', 'Maintenance Manager', '2025-07-20', 58000);
```

Insert Data into Attendance Table

INSERT INTO Attendance (employee _id, attendance _date, status) VALUES

(1, '2025-09-01', 'Present'),

(2, '2025-09-01', 'Absent'),

(3, '2025-09-01', 'Leave'),

(4, '2025-09-01', 'Present'),

(5, '2025-09-01', 'Leave'),

(6, '2025-09-01', 'Absent'),

(7, '2025-09-01', 'Absent'),

(8, '2025-09-01', 'Present'),

(9, '2025-09-01', 'Present'),

(10, '2025-09-01', 'Present');

-- Insert Data into Salaries Table

INSERT INTO Salaries (employee _id, base _salary, bonus, deductions, month, year) VALUES

(1, 50000, 5000, 1000, 'September', 2025),

(2, 40000, 3000, 1000, 'September', 2025),

(3, 45000, 3000, 1000, 'September', 2025),

(4, 38000, 4000, 1000, 'September', 2025),

(5, 30000, 3000, 1000, 'September', 2025),

(6, 48000, 3000, 1000, 'September', 2025),

(7, 52000, 3000, 1000, 'September', 2025),

(8, 46000, 5000, 1000, 'September', 2025),

```
(9, 50000, 5000, 1000, 'September', 2025),
(10, 58000, 5000, 1000, 'September', 2025);

# Update Employee Information #
UPDATE Employees
SET
   base _salary = 55000
WHERE
   employee _id = 10;

# Track Attendance #
INSERT INTO Attendance (employee _id, attendance _date, status) VALUES
(1, '2025-09-02', 'Present');

-- Salary Calculation
SELECT
   employee _id,
   (base _salary + bonus - deductions) AS total _salary
FROM
   Salaries
WHERE
   employee _id = 1 AND month = 'September'
      AND year = 2025;

# Insert into Payroll #
```

```
INSERT INTO Payroll (employee _id, total _salary, payment _date) VALUES
(1, 53000, '2025-09-30');

# Generate Pay Slips #
SELECT
    e. employee _name,
    s. base _salary,
    s. bonus,
    s. deductions,
    p. total _salary,
    p. payment _date
FROM
    Employees e
        JOIN
    Salaries s ON e. employee _id = s. employee _id
        JOIN
    Payroll p ON e. employee _id = p. employee _id
WHERE
    e. employee _id = 1
        AND s. month = 'September'
        AND s. year = 2025;

# List Employees by Department #
SELECT
    department, employee _name
```

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FROM
    Employees
ORDER BY department , employee _name;


# Attendance Summary #
SELECT
    employee _id,
    SUM(CASE
        WHEN status = 'Present' THEN 1
        ELSE 0
    END) AS present _days,
    SUM(CASE
        WHEN status = 'Absent' THEN 1
        ELSE 0
    END) AS absent _days,
    SUM(CASE
        WHEN status = 'Leave' THEN 1
        ELSE 0
    END) AS leave _days
FROM
    Attendance
WHERE
    attendance _date BETWEEN '2025-09-01' AND '2025-09-30'
GROUP BY employee _id;
```

```
# Employees with Salary Above Threshold #
SELECT
    employee _name, base _salary
FROM
    Employees
WHERE
    base _salary > 50000;

# Total Deductions for All Employees in September 2025 #
SELECT
    employee _id, SUM(deductions) AS total _deductions
FROM
    Salaries
WHERE
    month = 'September' AND year = 2025
GROUP BY employee _id;

# Highest Salary Employee #
SELECT
    employee _name, base _salary
FROM
    Employees
ORDER BY base _salary DESC
LIMIT 1;
```

```
# Yearly Salary Report #
SELECT
    e. employee _name,
    SUM(s. base _salary + s. bonus - s. deductions) AS yearly _salary
FROM
    Employees e
        JOIN
    Salaries s ON e. employee _id = s. employee _id
WHERE
    s. year = 2025
GROUP BY e. employee _name;
```