

Employee Payroll System - SQL Project

Employee Payroll System using MySQL

A simple SQL project to manage employees, their attendance, salary, and payroll calculation.

Features:

- Add employee details**
- Track attendance and salary components**
- Generate payroll with deductions**
- Simple reports for monthly salary**

Tables Used:

- 1. employees**
- 2. attendance**
- 3. salary**
- 4. payroll**

SQL Structure:

```
CREATE TABLE employees (  
    emp_id INT PRIMARY KEY AUTO_INCREMENT,  
    name VARCHAR(100),  
    department VARCHAR(50),
```

```
email VARCHAR(100)
);

CREATE TABLE attendance (
    attend_id INT PRIMARY KEY AUTO_INCREMENT,
    emp_id INT,
    work_days INT,
    month VARCHAR(20),
    FOREIGN KEY (emp_id) REFERENCES employees(emp_id)
);
```

```
CREATE TABLE salary (
    salary_id INT PRIMARY KEY AUTO_INCREMENT,
    emp_id INT,
    basic DECIMAL(10,2),
    hra DECIMAL(10,2),
    da DECIMAL(10,2),
    deductions DECIMAL(10,2),
    FOREIGN KEY (emp_id) REFERENCES employees(emp_id)
);
```

```
CREATE TABLE payroll (
    payroll_id INT PRIMARY KEY AUTO_INCREMENT,
    emp_id INT,
    month VARCHAR(20),
    gross_salary DECIMAL(10,2),
    net_salary DECIMAL(10,2),
```

```
FOREIGN KEY (emp_id) REFERENCES employees(emp_id)
);
```

Sample Queries:

-- Insert employee

```
INSERT INTO employees (name, department, email)
VALUES ('Amit Sharma', 'HR', 'amit.hr@example.com');
```

-- Record attendance

```
INSERT INTO attendance (emp_id, work_days, month)
VALUES (1, 22, 'May');
```

-- Set salary structure

```
INSERT INTO salary (emp_id, basic, hra, da, deductions)
VALUES (1, 20000, 8000, 5000, 2000);
```

-- Generate payroll

```
INSERT INTO payroll (emp_id, month, gross_salary, net_salary)
SELECT
    s.emp_id,
    'May',
    (basic + hra + da),
    (basic + hra + da - deductions)
FROM salary s
WHERE s.emp_id = 1;
```

-- View payroll report

```
SELECT e.name, p.month, p.gross_salary, p.net_salary  
FROM payroll p  
JOIN employees e ON p.emp_id = e.emp_id;
```

Author:

[Your Name]