

SQL Queries to Build the Database

-- Create the database

```
CREATE DATABASE ERMS;
```

```
USE ERMS;
```

-- Table: Departments

```
CREATE TABLE Departments (  
    department_id INT PRIMARY KEY,  
    department_name VARCHAR(100) NOT NULL  
);
```

-- Table: Jobs

```
CREATE TABLE Jobs (  
    job_id INT PRIMARY KEY,  
    job_title VARCHAR(100),  
    min_salary DECIMAL(10, 2),  
    max_salary DECIMAL(10, 2)  
);
```

-- Table: Employees

```
CREATE TABLE Employees (  
    employee_id INT PRIMARY KEY,  
    first_name VARCHAR(50),  
    last_name VARCHAR(50),  
    email VARCHAR(100) UNIQUE,  
    phone_number VARCHAR(20),  
    hire_date DATE NOT NULL,  
    job_id INT,  
    salary DECIMAL(10, 2),  
    department_id INT,
```

```

        CONSTRAINT fk_job FOREIGN KEY (job_id) REFERENCES Jobs(job_id),
        CONSTRAINT fk_dept FOREIGN KEY (department_id) REFERENCES
Departments(department_id)
);

-- Table: Payroll
CREATE TABLE Payroll (
    payroll_id INT PRIMARY KEY AUTO_INCREMENT,
    employee_id INT,
    month_year VARCHAR(10),
    basic_pay DECIMAL(10, 2),
    hra DECIMAL(10, 2),
    bonus DECIMAL(10, 2),
    net_salary DECIMAL(10, 2),
    CONSTRAINT fk_emp FOREIGN KEY (employee_id) REFERENCES Employees(employee_id)
);

-- Table: Attendance
CREATE TABLE Attendance (
    attendance_id INT PRIMARY KEY AUTO_INCREMENT,
    employee_id INT,
    attendance_date DATE,
    status ENUM('Present', 'Absent', 'Leave'),
    CONSTRAINT fk_att_emp FOREIGN KEY (employee_id) REFERENCES
Employees(employee_id)
);

```

Sample Data Insertion

sql

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-- Insert Departments

```
INSERT INTO Departments VALUES (10, 'HR'), (20, 'Finance'), (30, 'IT');
```

-- Insert Jobs

```
INSERT INTO Jobs VALUES
```

```
(1, 'HR Manager', 40000, 60000),  
(2, 'Finance Analyst', 30000, 50000),  
(3, 'Software Engineer', 35000, 70000);
```

-- Insert Employees

```
INSERT INTO Employees VALUES
```

```
(101, 'Arun', 'R', 'arun.r@example.com', '9876543210', '2023-07-01', 1, 55000, 10),  
(102, 'Divya', 'K', 'divya.k@example.com', '9876512345', '2023-06-15', 2, 48000, 20),  
(103, 'Vijay', 'S', 'vijay.s@example.com', '9876598765', '2023-08-01', 3, 60000, 30);
```

-- Insert Payroll

```
INSERT INTO Payroll (employee_id, month_year, basic_pay, hra, bonus, net_salary)
```

```
VALUES
```

```
(101, '2025-07', 40000, 10000, 5000, 55000),  
(102, '2025-07', 35000, 9000, 4000, 48000),  
(103, '2025-07', 45000, 12000, 3000, 60000);
```

-- Insert Attendance

```
INSERT INTO Attendance (employee_id, attendance_date, status)
```

```
VALUES
```

```
(101, '2025-08-01', 'Present'),  
(102, '2025-08-01', 'Leave'),  
(103, '2025-08-01', 'Present');
```

Useful SQL Queries (Practice)

1. Get all employees with their department and job title

sql

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```
SELECT e.employee_id, e.first_name, e.last_name, d.department_name, j.job_title
FROM Employees e
JOIN Departments d ON e.department_id = d.department_id
JOIN Jobs j ON e.job_id = j.job_id;
```

2. Total salary paid by each department (GROUP BY + JOIN)

sql

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```
SELECT d.department_name, SUM(p.net_salary) AS total_paid
FROM Payroll p
JOIN Employees e ON p.employee_id = e.employee_id
JOIN Departments d ON e.department_id = d.department_id
GROUP BY d.department_name;
```

3. Attendance summary per employee (COUNT + GROUP BY)

sql

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```
SELECT e.employee_id, e.first_name,
       SUM(CASE WHEN a.status = 'Present' THEN 1 ELSE 0 END) AS Days_Present,
       SUM(CASE WHEN a.status = 'Leave' THEN 1 ELSE 0 END) AS Days_Leave,
       SUM(CASE WHEN a.status = 'Absent' THEN 1 ELSE 0 END) AS Days_Absent
FROM Attendance a
JOIN Employees e ON a.employee_id = e.employee_id
GROUP BY e.employee_id, e.first_name;
```

4. Create a View for Payroll Summary

sql

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```
CREATE VIEW v_payroll_summary AS
SELECT e.first_name, e.last_name, p.month_year, p.basic_pay, p.hra, p.bonus, p.net_salary
FROM Payroll p
JOIN Employees e ON p.employee_id = e.employee_id;
```

5. Create a Stored Procedure to Fetch Payroll by Month

sql

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```
DELIMITER //
CREATE PROCEDURE get_payroll_by_month(IN p_month VARCHAR(10))
BEGIN
    SELECT e.first_name, e.last_name, p.*
    FROM Payroll p
    JOIN Employees e ON p.employee_id = e.employee_id
    WHERE p.month_year = p_month;
END //
DELIMITER ;

-- Call it:
CALL get_payroll_by_month('2025-07');
```

Hi, I'm Akash, a recent MCA graduate from S.A. Engineering College with a strong interest in cloud-based HR technologies. I have around 6 months of experience as a Junior Software Analyst, where I was involved in analyzing software systems, documenting technical specifications, and working with SQL and RDBMS concepts extensively.

I'm passionate about Oracle technologies and have been actively building my skills in SQL, database design, and data analysis. I'm also familiar with concepts like stored procedures, data migration, and system integration. I recently completed a project that involved handling employee data and automating certain HR processes using SQL and basic scripting.

What excites me about Kovaion is the opportunity to work hands-on with Oracle HCM Cloud and be part of real digital transformations. I'm a quick learner, team-oriented, and highly motivated to grow in this domain. I believe this role aligns perfectly with my technical skills and passion for HR tech.

Self-Introduction (Interview/Email/Walk-in) – Fresher with 6 months experience

Hi, my name is Akash. I have completed my Master's in Computer Applications and have over 6 months of hands-on experience in MS SQL Server development. During this time, I've gained practical knowledge in writing and optimizing SQL queries, stored procedures, and functions.

I've worked on database design concepts including normalization and indexing to improve performance, and I'm confident working with SQL Server Management Studio (SSMS). I've also written and debugged queries using SELECT, INSERT, UPDATE, DELETE operations, and have a clear understanding of joins, subqueries, and aggregate functions.

I'm passionate about ensuring data accuracy, optimizing query performance, and maintaining coding standards. I enjoy collaborating with teams to improve database efficiency and ensure data integrity. I'm now looking forward to joining a company like yours, where I can grow further as an MS SQL Developer and contribute effectively to real-time database projects.