

a recommended schema with key tables and columns:

1. Employees Table

This table stores basic employee information, which will be used for authentication and as the primary source for answering queries.

Column Name	Data Type	Description
employee_id	INT (Primary Key, Auto Increment)	Unique identifier for each employee
first_name	VARCHAR(50)	Employee's first name
last_name	VARCHAR(50)	Employee's last name
email	VARCHAR(100)	Employee's email (used for authentication)
phone_number	VARCHAR(15)	Employee's contact number
department	VARCHAR(50)	Employee's department
position	VARCHAR(50)	Job title or position
hire_date	DATE	Date when the employee was hired

2. Salaries Table

This table stores salary-related information.

Column Name	Data Type	Description
salary_id	INT (Primary Key, Auto Increment)	Unique identifier for each salary record
employee_id	INT (Foreign Key)	References the employee
base_salary	DECIMAL(10, 2)	Base salary of the employee
bonus	DECIMAL(10, 2)	Latest bonus amount
currency	VARCHAR(10)	Currency of the salary
last_updated	DATE	Date when salary data was last updated

3. Leaves Table

This table stores information related to leave balances.

Column Name	Data Type	Description
leave_id	INT (Primary Key, Auto Increment)	Unique identifier for each leave record
employee_id	INT (Foreign Key)	References the employee
annual_leave_balance	INT	Number of annual leave days remaining
sick_leave_balance	INT	Number of sick leave days remaining
last_updated	DATE	Date when leave data was last updated

4. Performance Table

This table stores performance-related information.

Column Name	Data Type	Description
performance_id	INT (Primary Key, Auto Increment)	Unique identifier for each performance record
employee_id	INT (Foreign Key)	References the employee
rating	DECIMAL(3, 2)	Employee's performance rating (e.g., 4.5)
review_period	VARCHAR(20)	Period of the review (e.g., Q1, 2024)
last_review_date	DATE	Date of the last performance review

5. Authentication Table

This table handles employee login and authentication details.

Column Name	Data Type	Description
auth_id	INT (Primary Key, Auto Increment)	Unique identifier for each authentication record
employee_id	INT (Foreign Key)	References the employee
password_hash	VARCHAR(255)	Hashed password for secure authentication
last_login	DATETIME	Date and time of the last login attempt

Relationships:

- `Employees` is the core table, and the other tables (`Salaries`, `Leaves`, `Performance`, `Authentication`) have a foreign key relationship to `employee_id`.
- Each employee can have multiple entries in the `Salaries`, `Leaves`, and `Performance` tables (e.g., for bonuses, different leave periods, and performance reviews).

simplify the schema into a single table that combines essential employee information. Here's how it could look:

Employees Table (Single Table Schema)

Column Name	Data Type	Description
employee_id	INT (Primary Key, Auto Increment)	Unique identifier for each employee
first_name	VARCHAR(50)	Employee's first name
last_name	VARCHAR(50)	Employee's last name
email	VARCHAR(100)	Employee's email (used for authentication)
phone_number	VARCHAR(15)	Employee's contact number
department	VARCHAR(50)	Employee's department
position	VARCHAR(50)	Job title or position
hire_date	DATE	Date when the employee was hired
base_salary	DECIMAL(10, 2)	Employee's base salary
bonus	DECIMAL(10, 2)	Most recent bonus amount
currency	VARCHAR(10)	Currency of the salary
annual_leave_balance	INT	Number of annual leave days remaining
sick_leave_balance	INT	Number of sick leave days remaining
performance_rating	DECIMAL(3, 2)	Latest performance rating (e.g., 4.5)
review_period	VARCHAR(20)	Period of the last review (e.g., Q1, 2024)
last_review_date	DATE	Date of the last performance review
password_hash	VARCHAR(255)	Hashed password for secure authentication
last_login	DATETIME	Date and time of the last login

Explanation:

- This table combines employee personal details, salary, leave balances, performance information, and authentication data.
- For authentication, the password_hash field is used, and last_login tracks the employee's most recent login attempt.
- Fields like base_salary, bonus, annual_leave_balance, and performance_rating cover the essential queries employees might ask.