An employee management system (EMS) is a software application used to store and manage employee data, such as personal information, employment records, payroll, and benefits. A typical EMS for an IT company in MongoDB would include the following collections:

**Table: employees**

Properties:

\_id: Unique identifier for the employee record (MongoDB automatically generates this ID)

first\_name: Employee's first name

last\_name: Employee's last name

email: Employee's email address

phone\_number: Employee's phone number

hire\_date: Date the employee was hired

department\_id: Reference to the department the employee belongs to (foreign key)

job\_title: Employee's job title

salary: Employee's salary

manager\_id: Reference to the employee's manager (foreign key)

**Table: departments**

Properties:

\_id: Unique identifier for the department record (MongoDB automatically generates this ID)

department\_name: Name of the department

head\_of\_department: Reference to the employee who is the head of the department (foreign key)

**Table: projects**

Properties**:**

\_id: Unique identifier for the project record (MongoDB automatically generates this ID)

project\_name: Name of the project

project\_manager: Reference to the employee who is the project manager (foreign key)

start\_date: Start date of the project

end\_date: End date of the project

description: Description of the project

Table: employee\_projects

**Properties:**

\_id: Unique identifier for the employee-project record (MongoDB automatically generates this ID)

employee\_id: Reference to the employee who is assigned to the project (foreign key)

project\_id: Reference to the project that the employee is assigned to (foreign key)

role: Role of the employee in the project (e.g., developer, tester)

**Joins**:

The employees table joins with the departments table on the department\_id property to get the department name and head of department information for each employee.

The employees table joins with the employee\_projects table on the employee\_id property to get the list of projects that each employee is assigned to.

The employee\_projects table joins with the projects table on the project\_id property to get the project details for each employee-project record.