

Payroll Management System

❖ Business

- San Jose State University

❖ Potential Business Problem

- The university's salary management system keeps track of employees' information, department, attendance, and base salary. All of this information is needed in order to correctly calculate and process the monthly wages by Payroll. We have the calculations for employees' salaries and want to add in taxes and their bonuses onto the database.
- Payday is coming and we need to determine which employees took a leave of absence not using paid sick leave or paid time off so that deductions can be properly calculated. We will find the employees who match this description and their pay deduction.

❖ Stakeholders

- CEO/ Business owner
- Employees
- Department heads
- Directors
- Store manager

❖ ER Diagram Process

- Entity Identification - Employee, Attendance, Payroll, Department
- Relationship Identification

	Employee	Attendance	Payroll	Department
Employee	N/A	attend	gain	work in
Attendance		N/A	affect	
Payroll		determine	N/A	
Department	has			N/A

- Cardinality Identification
 - Employee (one to one) Payroll
 - Department (one to many) Employee
 - Payroll (one to many) Department

■ Payroll (one to one) Attendance

➤ Identify Attributes

Entity	Primary Key	Attribute
Employees	Employee_ID	Name, Phone #, Email, Age, Address, Gender,
Attendance	Employee_ID	Vacation, Absence, Overtime, Date
Payroll	Employee_ID	Salary, Month, Bank Account, Taxable Benefits, Bonus
Department	Department_ID	Dept. Head, Dept. Name

➤ Create ER Diagram

