Assignment

Business Scenario: A company with different employees of different age groups having different salary and are working in different departments.

Let's break down the scenario into entities, relationships, attributes, and cardinalities:

Entities

- ✓ Employee
- ✓ Department

Attributes

- 1. Employee:
 - Employee ID (PRIMARY KEY)
 - Name
 - Age
 - Salary
 - Department ID (FOREIGN KEY referencing Department)
- 2. Department:
 - Department ID (PRIMARY KEY)
 - Department Name

Relationships

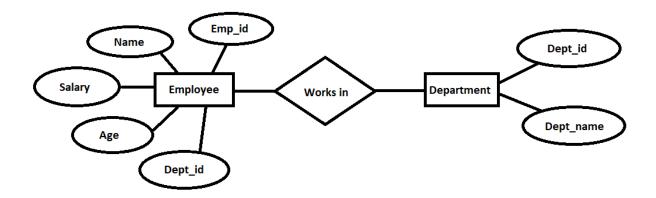
- 1. Works in:
- An employee works in a department.

Now, let's add cardinalities to the relationships:

- Each employee works in one department.
- Each department can have multiple employees.

With this information, we can now create the ER diagram:

Disha Kalonje



This ER diagram is normalized up to the third normal form, as there are no repeating groups and all attributes are dependent on the primary key. Each entity represents a distinct concept, and there are appropriate relationships between entities.