



1) Identified Elements

Entities and Attributes:

a) Employee:

Attributes: Num_E (Primary Key), Name, Position, Salary, Num_S (Foreign Key linking to Department).

b) Department:

Attributes: Num_S (Primary Key), Label, Manager (references an employee via Num_E).

c) Project:

Attributes: Num_P (Primary Key), Title, Start Date, End Date, Num_S (Foreign Key linking to Department).

Name

2. Relationships:

A) Between Employee and Department.

Cardinality: One-to-Many (An employee works in one department, but a department can have many employees).

B) Between Employee and Department (via Manager attribute).

Cardinality: One-to-One (Each department has one manager, and each manager manages only one department).

C) Between Project and Department.

Cardinality: One-to-Many (A project is assigned to one department, but a department can manage multiple projects).