DEPARTMENT

EMPOLYEE

Has

PROJECT

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).

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).