Identified Entities and Attributes:

1. Department

- o Attributes:
 - Department_ID (Primary Key)
 - Department_Name (Mandatory)
 - Supervisor_ID (Foreign Key linking to Employee)
 - Supervisor Name (Mandatory)

2. Employee

- Attributes:
 - Employee ID (Primary Key)
 - First Name (Mandatory)
 - Last_Name (Mandatory)
 - Employee Number (Mandatory)
 - Department_ID (Foreign Key linking to Department) (Mandatory)

3. Project

- Attributes:
 - Project_ID (Primary Key)
 - Project Name (Mandatory)
 - Project_Number (Mandatory)
 - Employee_ID (Foreign Key linking to Employee) (Optional)

4. Supervisor

- Attributes:
 - Supervisor_ID (Primary Key)
 - First Name (Mandatory)
 - Last Name (Mandatory)
 - Employee_ID (Foreign Key linking to Employee) (Mandatory)

Task 2: Entities, Attributes, and Relationships in a Salon

Identified Entities and Attributes:

- 1. Hairstylist
 - Attributes:
 - Hairstylist_ID (Primary Key) Mandatory
 - First_Name Mandatory
 - Last Name Mandatory
 - Address Optional
 - Phone Number Optional
 - Social_Security_Number Mandatory
 - Salary Mandatory

2. Client

- Attributes:
 - Client ID (Primary Key) Mandatory

- First_Name Mandatory
- Last_Name Optional
- Phone_Number Optional
- Preferred_Hairstylist_ID (Foreign Key linking to Hairstylist) Optional

Relationships (ERDish):

- One Hairstylist can see many Clients.
 - Relationship: A Hairstylist works with zero or many Clients, and a Client is seen by one Hairstylist per appointment.

Task 3: Entities, Attributes, and Relationships in a School

Identified Entities and Attributes:

- 1. Teacher
 - Attributes:
 - Teacher_ID (Primary Key) Mandatory
 - First_Name Mandatory
 - Last Name Mandatory
 - Address Optional
 - Phone Number Optional
 - Email_Address Optional

2. Course

- Attributes:
 - Course_ID (Primary Key) Mandatory
 - Course_Code Mandatory
 - Course Name Mandatory
- 3. Class
 - Attributes:
 - Class ID (Primary Key) Mandatory
 - Course_ID (Foreign Key linking to Course) Mandatory
 - Teacher ID (Foreign Key linking to Teacher) Mandatory
 - Day Mandatory
 - Time Mandatory
 - Classroom Mandatory

Relationships (ERDish):

- One Teacher teaches up to three Classes.
 - Relationship: A Teacher may teach up to three Classes, but a Class is taught by only one Teacher.
- One Course can have multiple Classes.
 - Relationship: A Course may be offered in several Classes, but each Class belongs to only one Course.