1. Find out the entity type
Employee(Ssn,Name,Address,Salary,Sex,Bdate)
Department(Name,Number,Locations)
Project(Name,Number,Location)
Dependent(Name,Sex,Birth_date,Relationship)

2. Find out the relationships

-Employee WORKS_FOR Department

    N   :   1

-Employee MANAGES Department

    1   :   1

-Department CONTROLS Project

    1   :   M

-Employee WORKS_ON Project

    M   :   N

3.Describe the ER Diagram in words

There are four entities in this ER Diagram.Employee entity has (Ssn,Name,Bdate,Address,Salary,Sex).Ssn is a primary key. The name has three composite attributes.that are Fname,Minit,Lname. All Employees depends on Department and Department depends on all employees. So it is total participation. Many Employees Works on a Department. A Department has many employees. So this is one to many relationship

An employee Manages a Department. A Department manages by an Employee. So this is one to one relationship. The Start_date attribute is a descriptive attribute. Employee to the department is partial participation.department to an employee is total participation.

A Department has four attributes. That are(Name,Number,Locations,Number_of_Employees).Name and Number are unique keys or primary keys. Location is a multi-value attribute.Number_of_Employees is a derived attribute.

A Project has many Employees. All Employees work on all Projects. So this is many to many relationship.

A Department controls many Project. A Project controls by a Department. So this is one to many relationship

Dependent is a weak entity.that has four attributes.that are Name, Sex, Birth_Date, Relationship