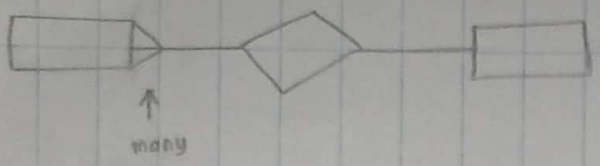
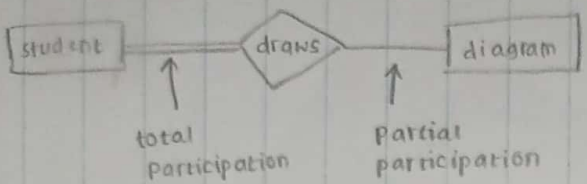
Entity - Relationship Diagram - DBMS - Workshop

28/07/2023



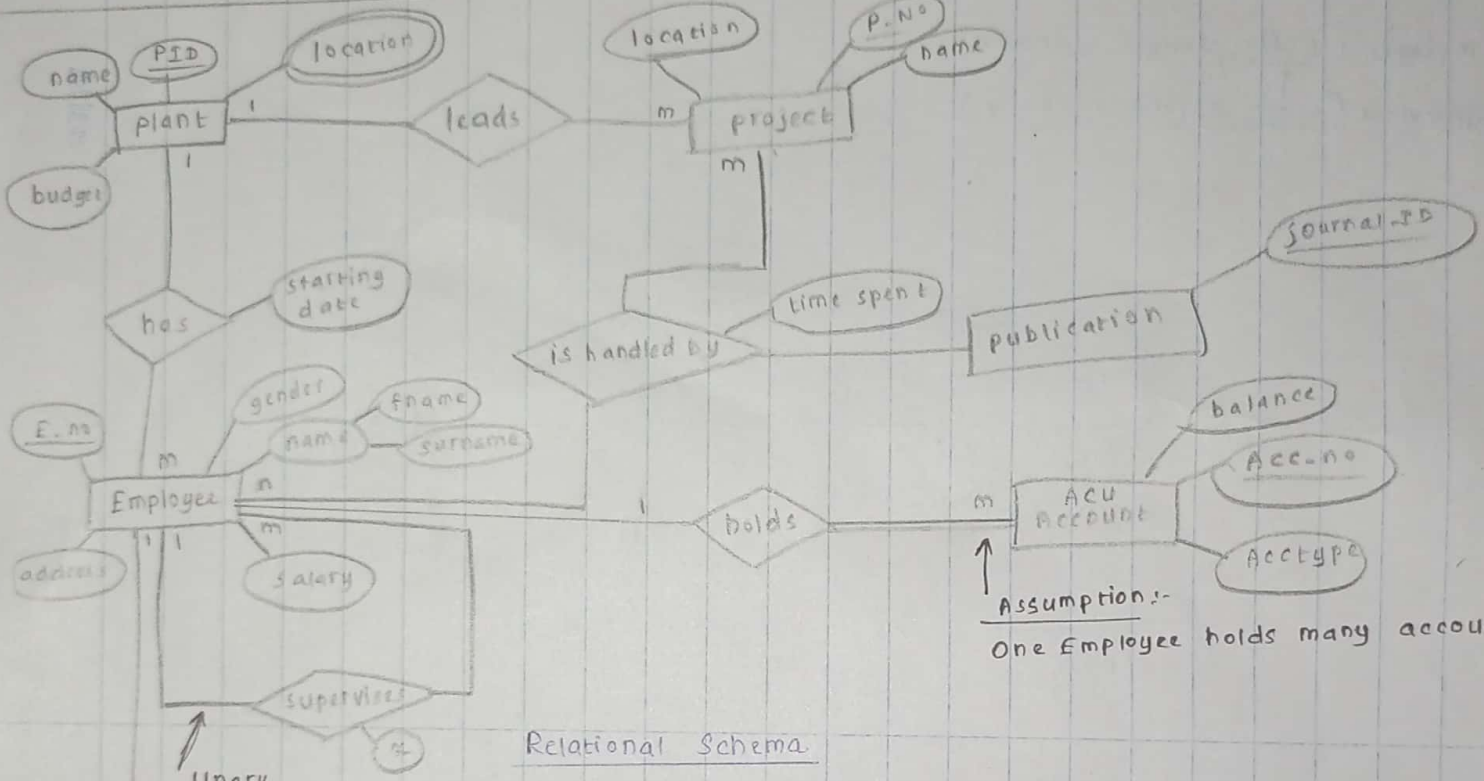
Chen's
1 : 1
1 : m
m : n

In a weak entity, there can't be an primary key. Instead of primary key, it is called as "partial key".



Vnary 1:1 / 1:M

Unary M:N



Assumption :-

One Employee holds many accounts.

Unary Relationship.

Relational Schema

1:m

Plant (PID , name, budget)

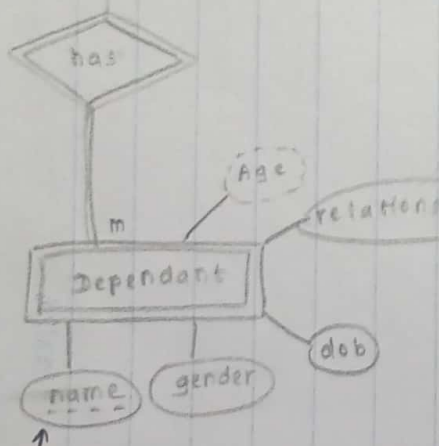
Project (P_NO, name, location, PID)

Plant_location (PID, location) ← multivalued attribute

1:1

Employee (E_NO , Salary , gender, address, fname, surname)

Account (Acc_no , Acctype , balance, E_No)



Partial Key

m:n

Employee (E_NO, Salary, gender, address, fname, surname)

Project (P_NO , name, location)

Employee - Project (E_No, PNo, time spent) ← many to many relationships

Vnary

Student (a , b)

Diagram (c , d , a)

Upon completing each project, employees themselves may publish it. Each publication is uniquely tracked by its journal ID.

Employee (E_No , Name)

~~Plant~~

Project (project_no , name, location)

Publication (Journal_ID)

handed by (ENo , Project_No , ~~discount~~ Journal_ID , time spent)

Employee (E_No , fname , surname)

Supervisor (E_No , Superviser_ID , x)