Steps to Make ER Digram

i) Identify entity set

ii) identify attributes & their type.

iii) Indentify relationship & constrains
   └→ Mapping
   └→ Multicapalion

→ ER Model of __Banking System__

* Requirements
   → Branch name,
   → Bank → customer
     customer → account & take loan.
     customer asociated with some Banks
     Bank → employees.
     Account → Saving & cuent.
     loan originated by Branch.
        └→ ~~loan can cust~~ same loan can be given
           to multiple customer
        └→ Payment schedule.

* Steps
   Entity set & its attributes & types.

① Branch → name, city, assets

② customer → customer_id, name, DOB, age, contac_no

③ Employee → employee_id, name, contact_no, department.

④ Saving account → interest rate, limit.

⑤ current account → transition_charge. —

⑥ generalised entity account → account no, balance.

⑦ loan → loan number, amount.

⑧ weak entity payment → Payment no, date, amt

Relationship & constrains.

① Customer borrows loan.

M : N =

② loan originated by branch.

= N : 1

③ loan   loan payment ___ payment

1 : N ≤

④ Customer deposit account

M : N

⑤ customer Banker employee.

N : 1

⑥ employee manage by employee

N : 1 ≤

Entity-Relationship Diagram (Banking System)

- **Branch** (entity) with attributes: assets, city, name
- **Originates** (relationship, 1:N) between Branch and Loan
- **Loan** (entity) with attributes: loan number, amount
- **Borrow** (relationship, M:N) between Customer and Loan
- **Customer** (entity) with attributes: name, D.O.B, age, contact no, customer Id
- **Loan Payment** (relationship, 1:N) between Loan and Payment
- **Payment** (entity) with attributes: Payment number, date
- **Deposit** (relationship, M:N) between Customer and Account
- **Account** (entity) with attributes: Account number, balance
- **IS-a** (specialization) of Account into Curnt A/C and Saving A/C
  - **Curnt A/C** with attribute: transition charges
  - **Saving A/C** with attributes: intrest, viw
- **Banker** (relationship, N:1) between Customer and Employee
- **Employee** (entity) with attributes: employ Id, name, contact, dependent
- **managed by** (relationship)