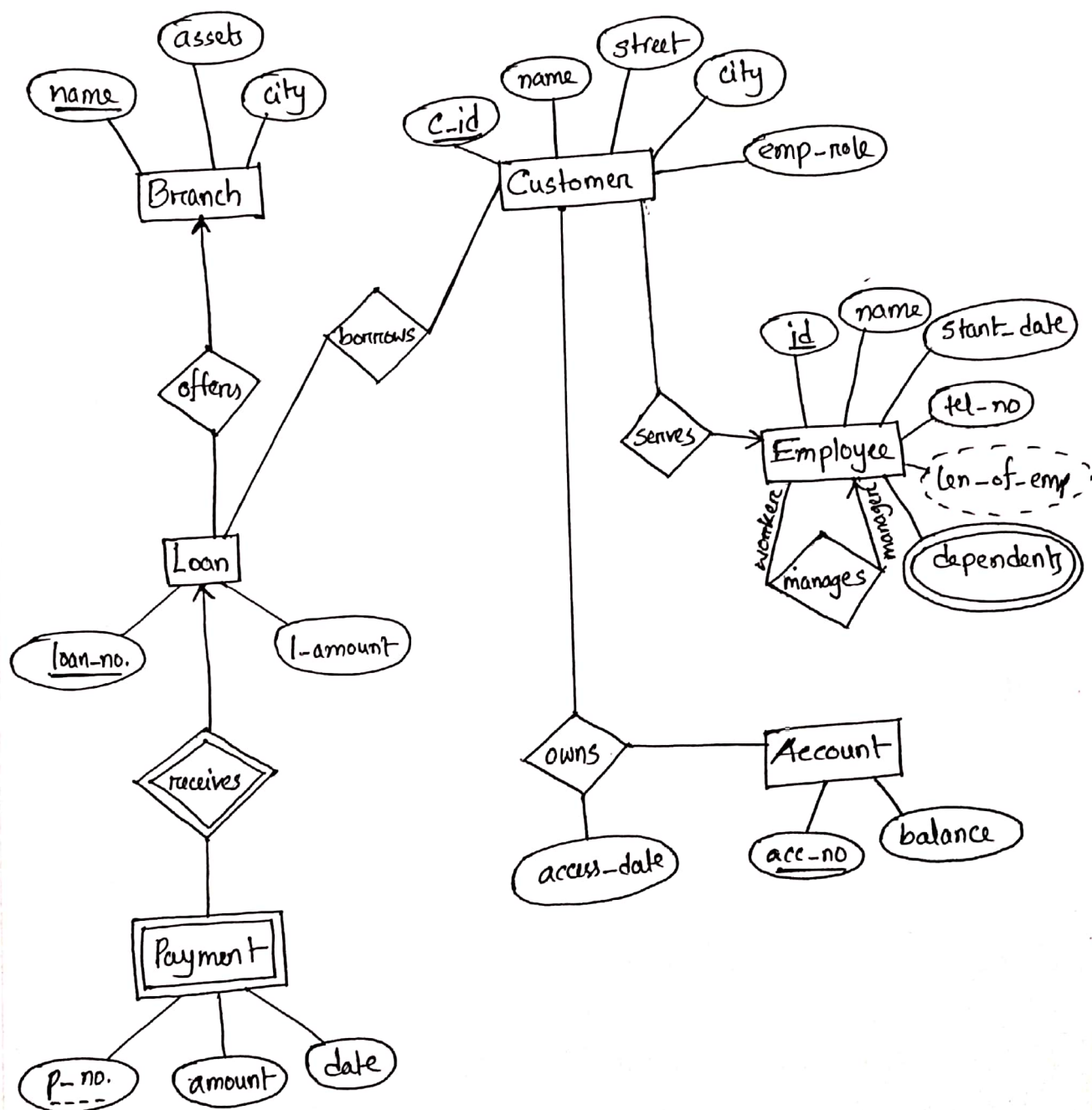# Ans to Practice — 1

Banking Enterprise :

Ans to Practice — 2

Company Database

Entity-Relationship diagram for Company Database:

- **Department** (entity): name, number, location, start_date
- **Project** (entity): name, number, location
- **Controls** (relationship between Department and Project)
- **manages** (relationship between Department and Employee)
- **belongs to** (relationship between Department and Employee)
- **works on** (relationship between Employee and Project): no-of-hours
- **Employee** (entity): address, name, gender, SSN, Salary, start_date, DOB
- **supervises** (relationship): worker, supervisor
- **depends on** (relationship between Employee and Dependent)
- **Dependent** (entity): gender, DOB, relationship, f-name

Ans to Practice — 03

Online Book Store Database

ER diagram for Online Book Store Database with entities: Book (isbn, price, title, year, no-of-copies), Warehouse (W-P-no, W-code, W-address), Author (name, address, url), Publisher (name, address, phone-no, url), Shopping Basket (Basket-ID), Customer (email, name, address, phone-no). Relationships: stocks (Book–Warehouse, with no-of-copies), writes (Book–Author), publisher (Book–Publisher), contains (Book–Shopping Basket, with no-of-copies), owns (Shopping Basket–Customer).

Ans to Practice—04

Blog Management System

Entity-Relationship diagram for Blog Management System:

- **Blog Writer** entity with attributes: gender, email, name, ep, DOB, kn-emp, address (postal code, city, street), join-date
- **Blog** entity with attributes: id, date, time, details, category
- **Visitor** entity with attributes: email, name, ep
- Relationships: publishes (Blog Writer–Blog), hires (employer/employee, Blog Writer), sees, reacts, comment (date, time, content), follows (Visitor)

Ans to Practice – 5

League of Villains

Answer to Practice – 6

Ans to Practice—07

Job Portal System

An ER diagram for a Job Portal System.

Entities and attributes:
- **User** — email, name, addres, DOB, eq, job-pos, job-exp
- Relationships: recruiter/job seeker (recruits), posts, interested in
- **Post** — date, time, content, no-of-viewers
- **Review** — details, id, date, time
- **Office** — id, name, addres, cont-no
- Relationships: provides, gets, belongs to