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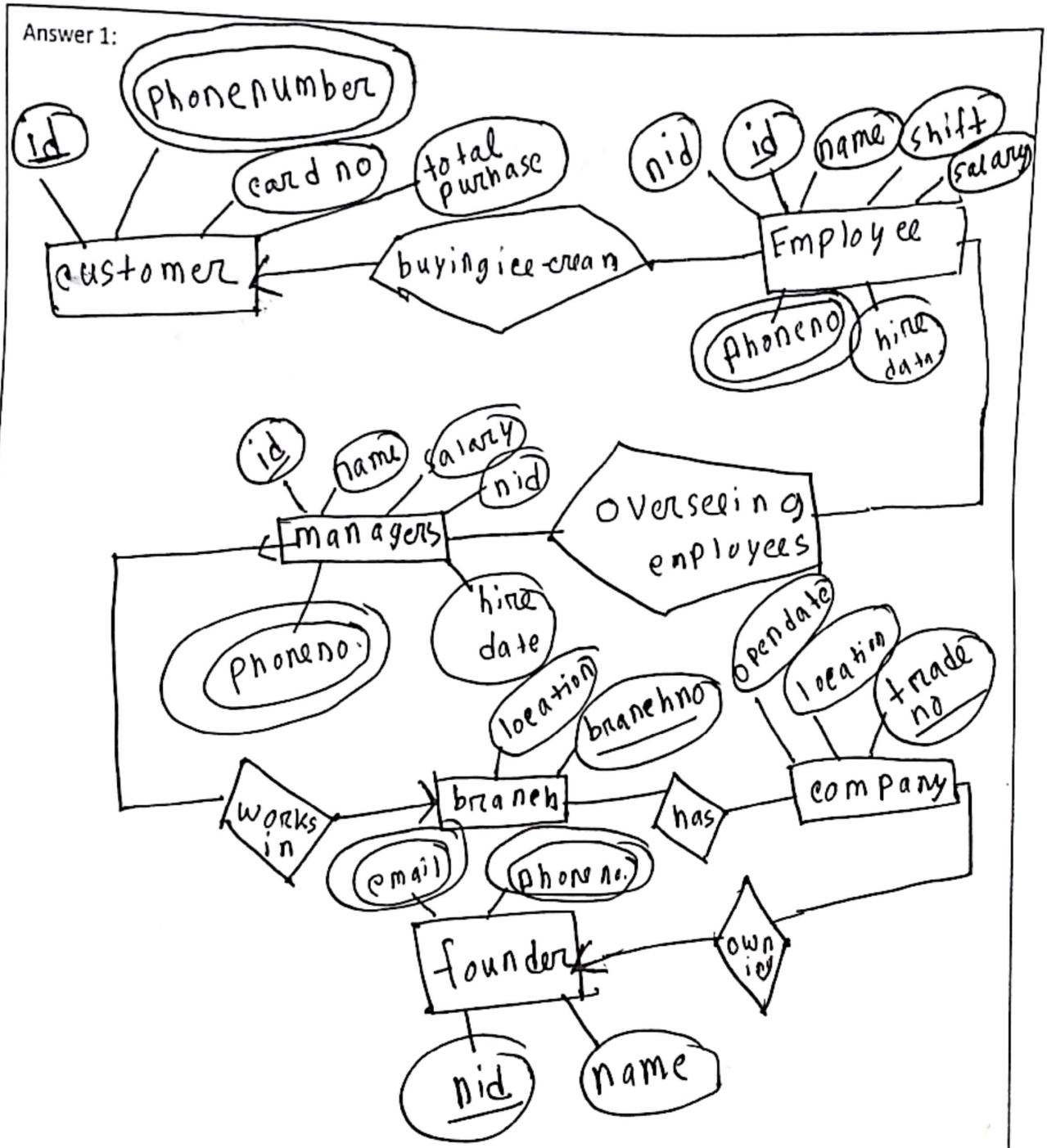
Class Test 02

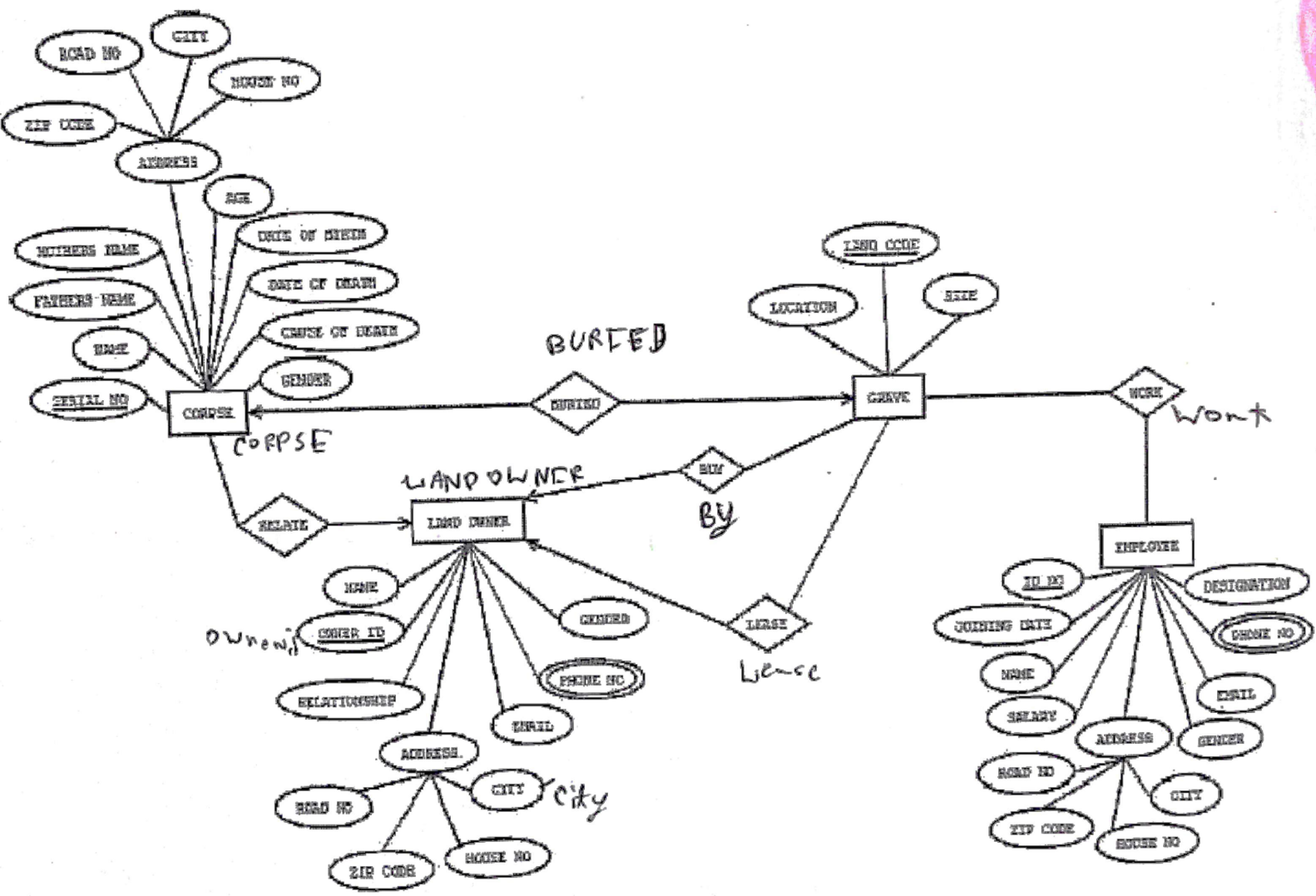
Below a scenario has been given draw the ER Diagram.

In an Ice-Cream Parlor, a customer may buy or order many ice-creams. Each customer has a unique customer id. Customer data such as customer name, phone number, card no, total purchase amount is also stored in the system. A customer can have multiple cards. An ice-cream can only be sold to or ordered by only one customer. When buying a unique transaction ID and date is stored. When ordering an order, no and delivery date is stored. The ice-creams are identified by their names. The cost price, sell price, profit, stock, flavor, manufacturer information is available in the system. The profit is calculated from the cost price and the sell price. Ice-creams are sold by employees, where each ice cream can be sold by one employee but one employee can sell many ice-creams. Each employee is identified by their own unique employee id. The system also has employee name, shift, salary, hire date, phone no, address, NID stored. Each employee works under only one manager and one manager oversees all employees of a branch. A manager works in only one branch. They have their own unique employee ID and their name, salary, hire date, phone no, address, NID are stored in the database. Managers and employees can have multiple phone numbers. Each branch has one manager. And each branch has a location and is identified by its unique branch no. All branches are outlets of one company. The company has a unique trade license no and opening date and location. Each branch has their own single account and the company has a single account. In the accounts daily profit, net profit and balance are stored. Each of the branches net profit is calculated from the ice-creams profit and the company's net profit is calculated from all of the branches net profit. The whole company is owned by multiple owners. Among the owners there is a founder. Each of the owners are identified by their NID. Other data such as name, phone no and email are also stored in the database. The owners can have multiple phone no.

Answer 1:


phonenumber
id
card no
total purhase
customer
buying ice-cream
nid
id
name
shift
salary
Employee
phoneno
hire data
id
name
salary
nid
managers
Overseeing employees
phoneno
hire date
location
branchno
opendate
location
trade no
works in
branch
has
company
email
phone no.
founder
owning
nid
name

Below an ER Diagram has been given write the scenario.



Answer 2:

In corpse, the system will also store name, father's, mother's name, address, gender, age, date of death, cause of death, ~~Zip code, eid~~. Address has attributes like zip code, city, road no and house no. One corpse can be bury into one grave in this system. Corpse's primary key is serial no. The system will store grave's location, size and land ~~code~~ code. Land ~~code~~ code will be unique id. Employees works in grave, the system will be store their name, salary, address, road no, house no, city, joining date, zip code. Employess will be identified by their id no and they can have multiple phone no. Many employees can work in one grave. Graves ~~one~~ relationship are buy and leased by land owners are identified by their unique owner-id, they can have multiple phone no, their name, gender email, relationship and address are also stored in the system.

One land owner can buy or lease many graves and one land owner can relate to many corpse.