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Class Test 03

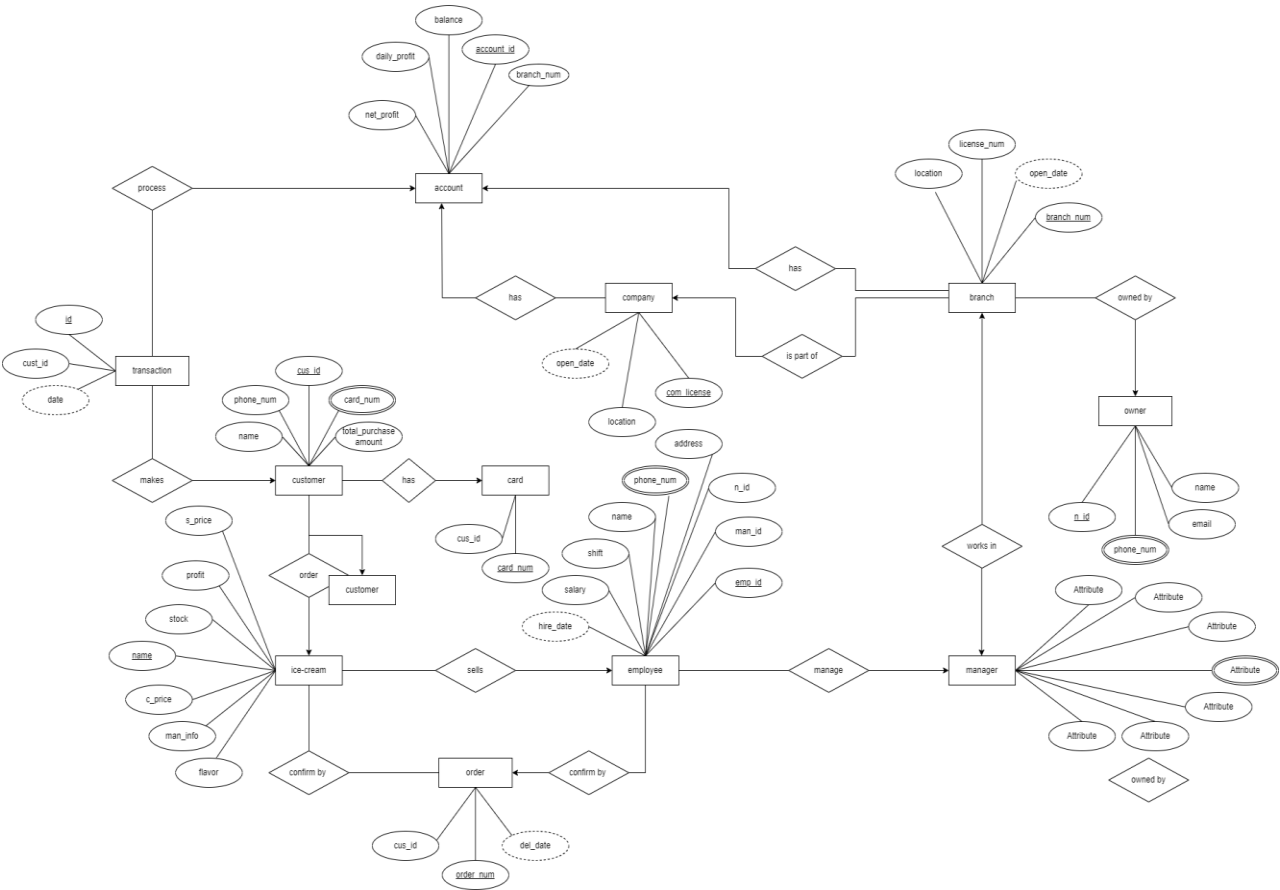
1. Below a scenario has been given draw the ER Diagram.

Draw with proper annotations (use DIA, VISIO, MS WORD etc.) For reference see ERDiagramTutorial.

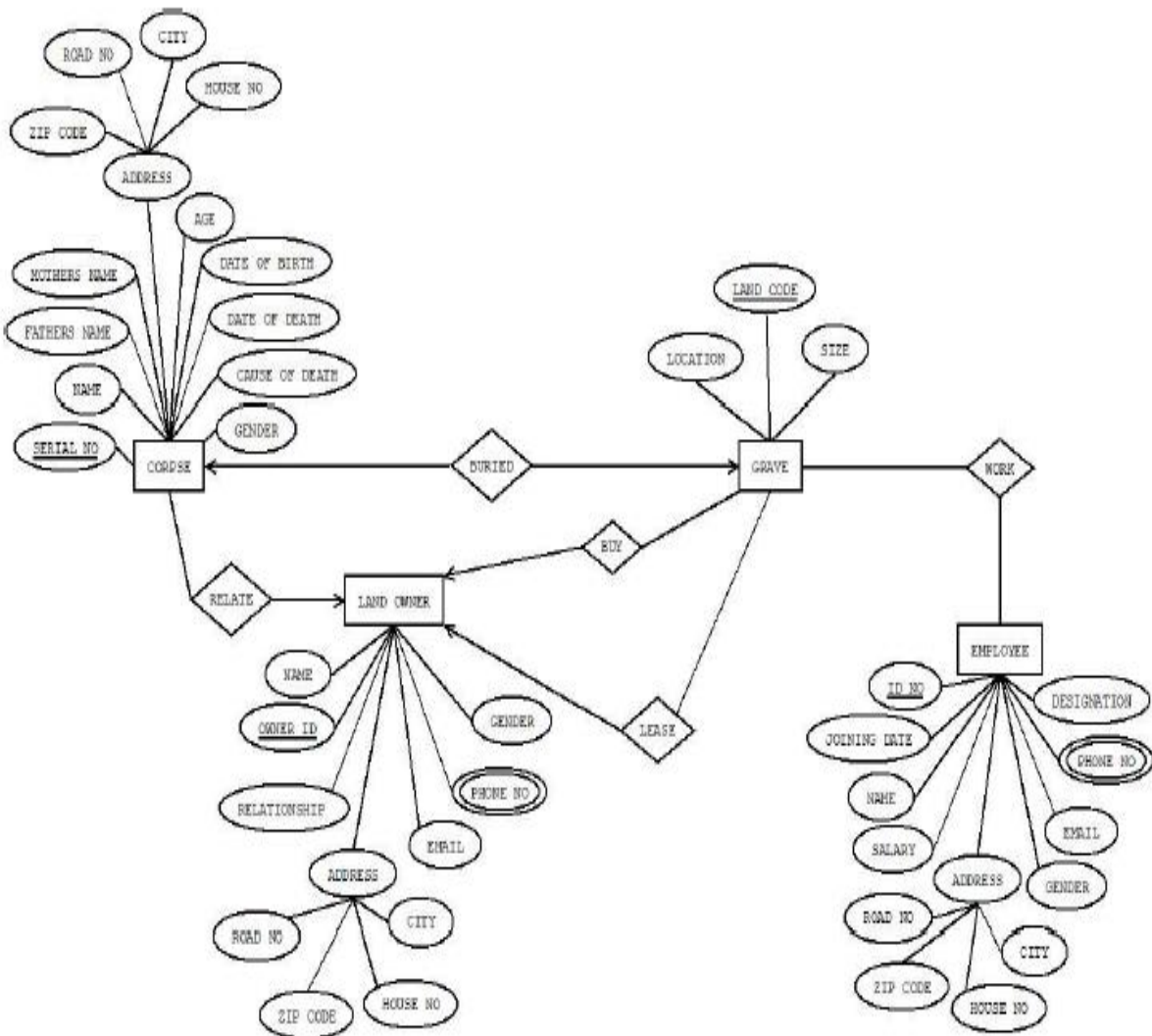
In an Ice-Cream Parlor, a customer may buy or order many ice-creams. Each customer has a unique customer id. Customer data such as customer name, phone number, card no, total purchase amount is also stored in the system. A customer can have multiple cards. An ice-cream can only be sold to or ordered 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:

Ice-Cream Parlor



2. Below an ER Diagram has been given write the scenario.
For reference see *ERDiagramTutorial*.



Answer 2:

In a cemetery, when a resident dies, their details are methodically recorded with a unique identifier known as Serial No. Their Name, Father's Name, Mother's Name, Age, Gender, Date of Birth, Date of Death, and Corpse of Date are all documented. The departed's last known Address, encompassing Zip Code, Road No, City, and House No is also archived. The cemetery comprises multiple plots, each owned by a landowner identifiable by their unique Owner Id. These owners might have a specified Relationship to the deceased and are contactable through multiple Phone Numbers and an Email. The cemetery's upkeep is ensured by dedicated Employees, each having a unique ID No, Name, Designation, and Joining Date, among other details. The cemetery's foundation, the Grave, is marked by a distinct Land Code, with its Location and Size documented. To maintain the cemetery's order, landowners can own or lease several graves and associate them with various corpses. Concurrently, multiple employees attend to the graves, ensuring they remain in pristine condition.