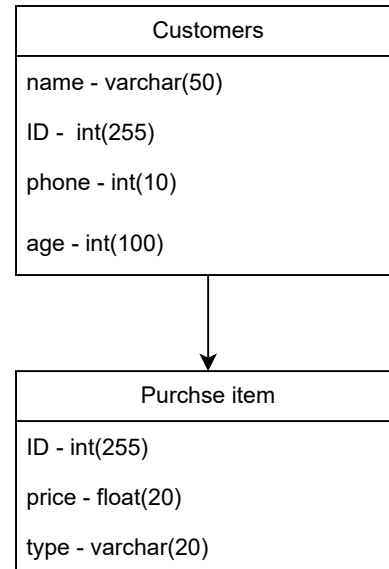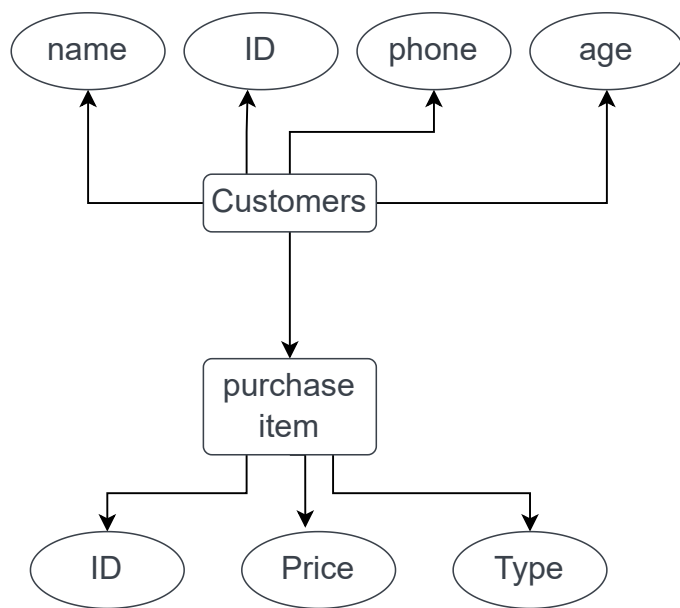1. A retail store manager wants to organize their data into a relational database. Their data mainly is about the customers and the purchased items. Each customer has a name, ID, phone number, age, and each Item has item_ID, item_Price, item_Type.

Customers

Customers
name - varchar(50)
ID - int(255)
phone - int(10)
age - int(100)

Purchse item
ID - int(255)
price - float(20)
type - varchar(20)

2. At NPower Canada each participant has a Participant_ID, name, program_name. Participants can register in multiple courses. Each course has a name, course_ID. Multiple participants can register at the same course. Also, each instructor has a name and ID. Instructors can supervise multiple participants, however participants can have only one instructor.

Purchse item
ID - int(255)
price - float(20)
type - varchar(20)

Course
ID - int(255)
name - varchar(50)

Instructor
course ID - int(60)
name - varchar(50)

Lakshmi Kadali
Entity relationship model
flow chart and table