

## **Design the ER diagram for the following scenario.**

You are required to develop an online ordering system for a pizza restaurant. The system should allow a user to choose among the following choices:

- Pizza size (small, medium or large)
- Pizza crust type (Cheese Bites, Stuffed Crust or Thin n Crispy)
- Pizza toppings (Veggie Lovers, Double Cheese, Chicken Spicy or Pepperoni)
- Beverages (small, medium or large)

A user can order multiple pizzas, beverages and desserts. The order should include the customer's delivery address and contact number. Upon the confirmation of the order, the order slip should be printed with the order information and total price.

Each topping has a price (for example: Veggie Lovers Rs. 150 and Pepperoni Rs. 300). Also a topping has a type (vegetarian or non-vegetarian). The price of topping doesn't change with the size of pizza.

Each type of crust has a price. The price changes with the size of the pizza (for example: Cheese Bits small Rs. 70, medium Rs. 100 and large Rs. 130).

The price of a pizza is the sum of the basic price (Rs. 200 for a small pizza, Rs. 400 for a medium pizza, Rs. 600 for a large pizza), plus the sum of the prices of toppings and crust.

The price of a beverage is the base price of the drink (Rs. 100 for soda and Rs. 200 for beer) multiplied by a size factor (0.8 for small, 1.0 for medium and 1.2 for large)

The delivery charge is Rs. 200, but self pick up is free of charge.