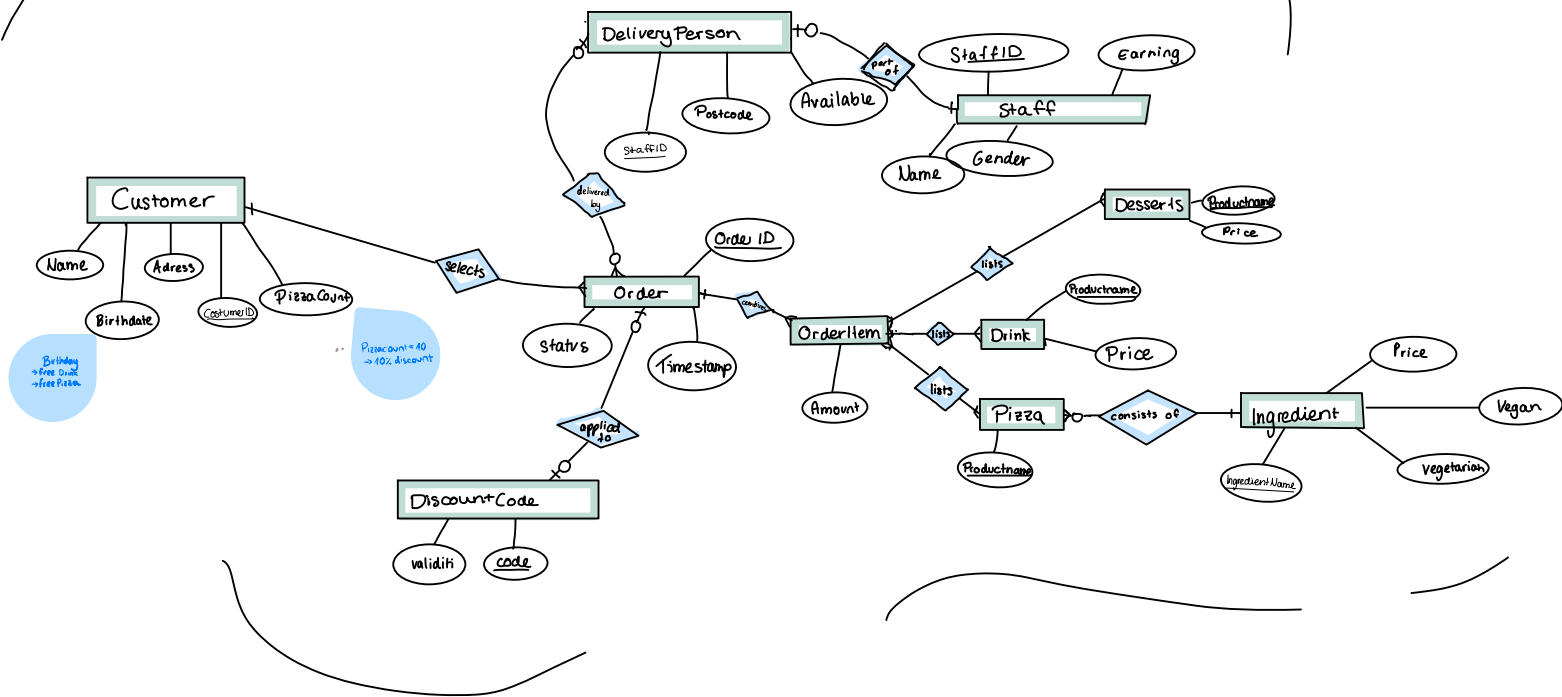


MAMMA MIA PIZZA

ERD (Entity Relationship Diagram)



Pizza pricing

Pizza object in the programming layer will calculate the pizza price based on the used ingredients then 40% margin is added on 9% vat

→ calculation

SP - selling price

I_n - Ingredient price

$$Sp = I_n + 0.4Sp$$

$$Sp - I_n = 0.4Sp$$

$$I_n = 0.4Sp - Sp \cdot (0.4 - 1)Sp$$

$$\frac{I_n}{0.6} = Sp$$

Now 9% Vat is added:

T_p : Total price

$$T_p = Sp + 0.09Sp$$

$$T_p = Sp (1 + 0.09)$$

$$T_p = \frac{I_n}{0.6} \cdot 1.09 = \frac{1.09}{0.6} \cdot I_n$$

