PERSON (AccountID, Fname, Lname, DateOfBirth, SSN, UserName, Password)

CUSTOMER (AccountID, Payment, MailAddr, BillAddr, Phone, Email)

ADMIN (AccountID)

BATCH (BatchID, ProductID[FK -> PRODUCT.ProductID], StoreNum, StockNum, StockDate)

PRODUCT (ProductID, Name, Price, Description, Image, ExpirationDate)

~~BELONG_TO (ProductID, BatchID)~~

ORDER (OrderID)

ORDERDETAIL (OrderID[FK -> ORDER.OrderID], Name, ProductID, Number, Price)

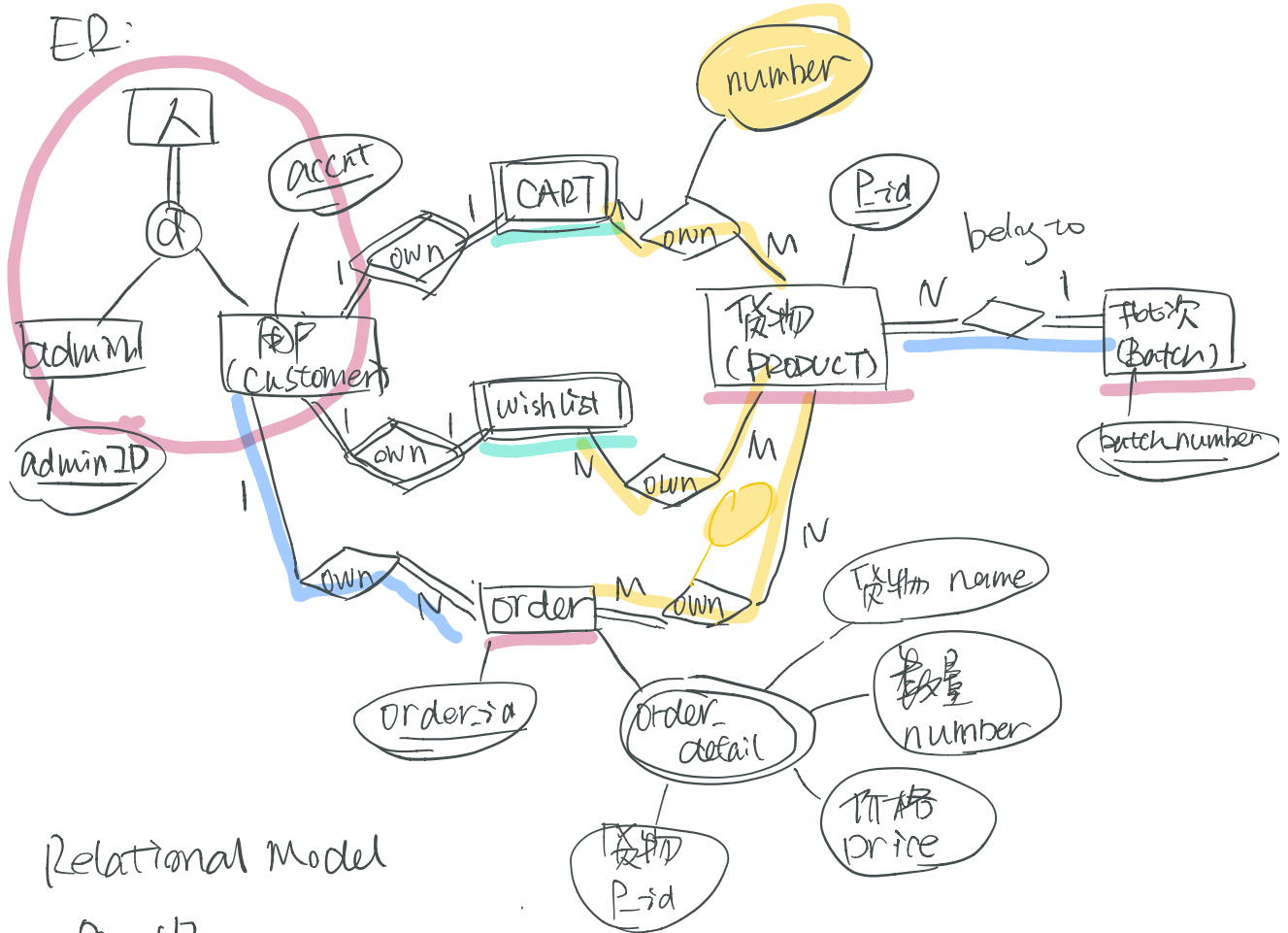ORDER_OWN_PRODUCT (OrderID[FK -> ORDER.OrderID], ProductID[FK -> PRODUCT.ProductID], Number)

CART (AccountID[FK -> CUSTOMER.AccountID])

CART_OWN_PRODUCT (AccountID[FK -> CUSTOMER.AccountID], ProductID[FK -> PRODUCT.ProductID], number)

WISHLIST (AccountID[FK -> CUSTOMER.AccountID])

WISHLIST_OWN_PRODUCT (AccountID[FK -> CUSTOMER.AccountID], ProductID[FK -> PRODUCT.ProductID])

ER:

number

人

admin
accnt

CART

P-id

belong to

admin
admin ID

顾客 (Customer)

商品 (PRODUCT)

批次 (Batch)

batch_number

own

own M

own

own

wishlist

own

own

order

Order-id

Order_detail

order M own

N

商品 name

数量 number

所需 price

商品 P_id

Relational Model

关系模型:

CART_OWN - PRODUCT :   accnt   ,   P-id   , number
                      FK→CUSTOMER   FK→PRODUCT

WISHLIST_OWN - PRODUCT :   accnt   ,   P-id
                          FK→CUSTOMER   FK→PRODUCT

ORDER_OWN_PRODUCT :   order-id   ,   P-id   ,   number
                      FK→ ORDER   FK→PRODUCT

ADMIN : ~~x.attrs.~~ , admin_ID

CUSTOMER: ~~x.attrs~~ , accnt , ~~customer attrs.~~

ORDER : order_id, ~~order attrs.~~ accnt
$\qquad\qquad\qquad\qquad\qquad\qquad$ FK → CUSTOMER

ORDER_DETAIL: order_id , name , P→id , number , price.
$\qquad\qquad$ FK → ORDER

PRODUCT: P→id , ~~P.attrs.~~ batch_number
$\qquad\qquad\qquad\qquad\qquad\qquad$ FK → Batch

BATCH : Batch_id , ~~Batch.Attrs~~

CART : accnt
$\qquad\qquad$ FK → CUSTOMER

WISHLIST : accnt
$\qquad\qquad$ FK → CUSTOMER