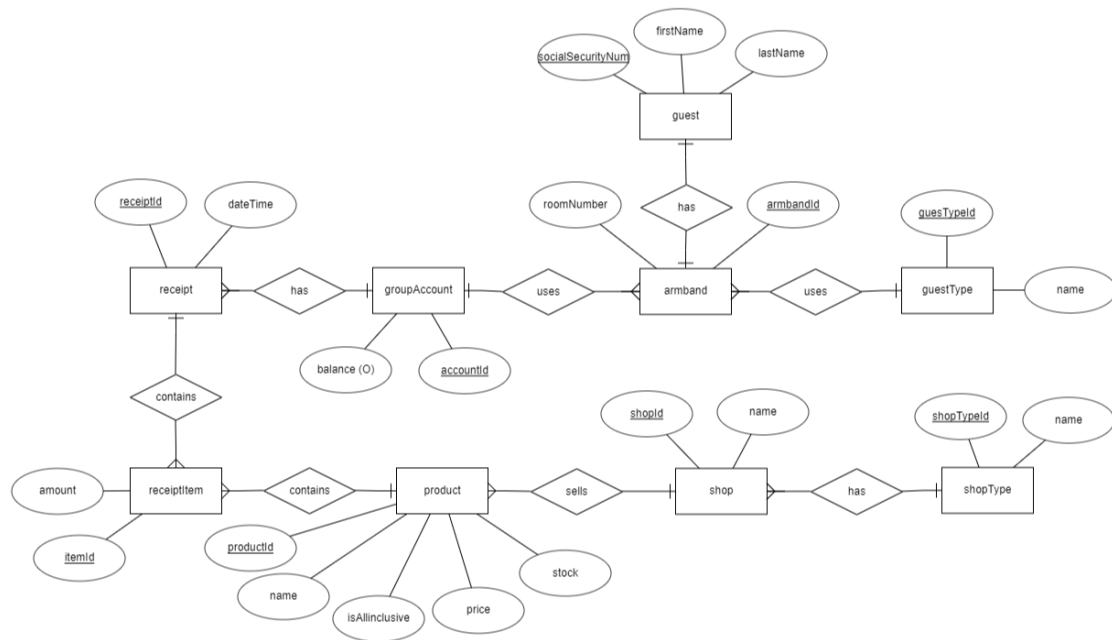
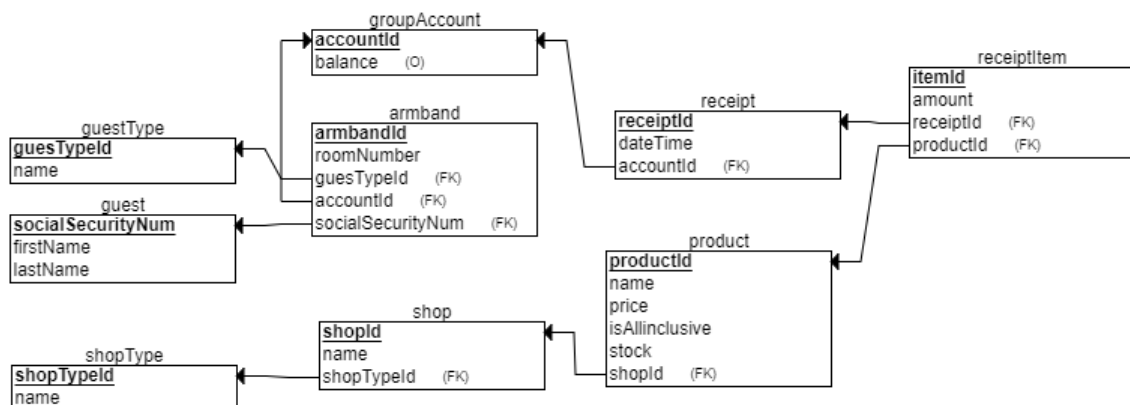


Exercise 1.



Exercise 2.



Exercise 3.

guest: Tells information about the hotel customer.

guest – armband: One to one relation connection used to connect the armband and services to hotel guest.

armband: Connects to the guest to the account which is used in hotel services.

guestType: Information how the guest is paying for services.

armband – guestType: Tells information about how the customer wants to pay for their stay.

groupAccount: Account for one or multiple people which stores information about the transactions.

armband – groupAccount: Connects armband to the account, which is used for services, thus connecting the hotel guest to the account.

receipt: Information about purchased items.

groupAccount – receipt: Collects information about purchases to the account

receiptItem: One line of items on the receipt eg. 3 cokes

receipt - receiptItem: Contains all the information about single type of item purchased on the receipt.

product: Describes product and contains stock of items in hotel inventory.

receiptItem - product: Connects the purchased product to the item on the receipt.

shop: Contains shop name and reference and to the type of shop.

product – shop: Tells which store the product is from as well as tells which products the store has. This also describes the inventory that the store has.

shopType: Information about the store, for example restaurant, bar, clothing store.

shop – shopType: Tells which kind of store is in question, extracted into its own table for easy data manipulation in the need arises.

Exercise 4.

Model data

guest: 100300-XXXX, Uotila, Max

armband: 1001, 101, 1, 2001, 100300-XXXX

guestType: 1, All-inclusive

groupAccount: 2001, \$50

receipt: 100001, 29.1.2023 19:45, 2001

receiptItem: 200001, 5, 100001, 50

product: 50, beer, \$5.50, true, 5000, 3

shop: 3, Beach bar Peachy, 5

shopType: 5, bar