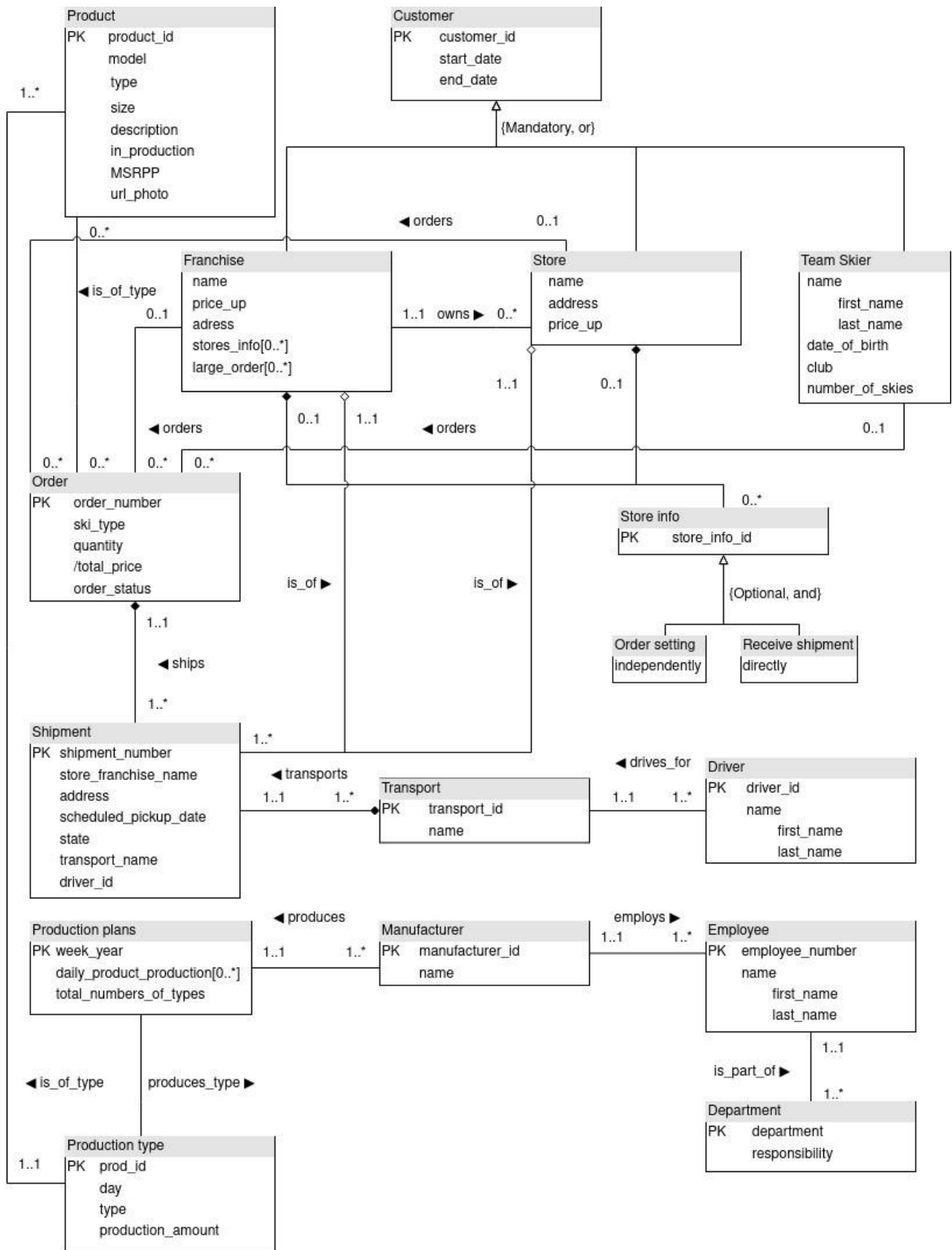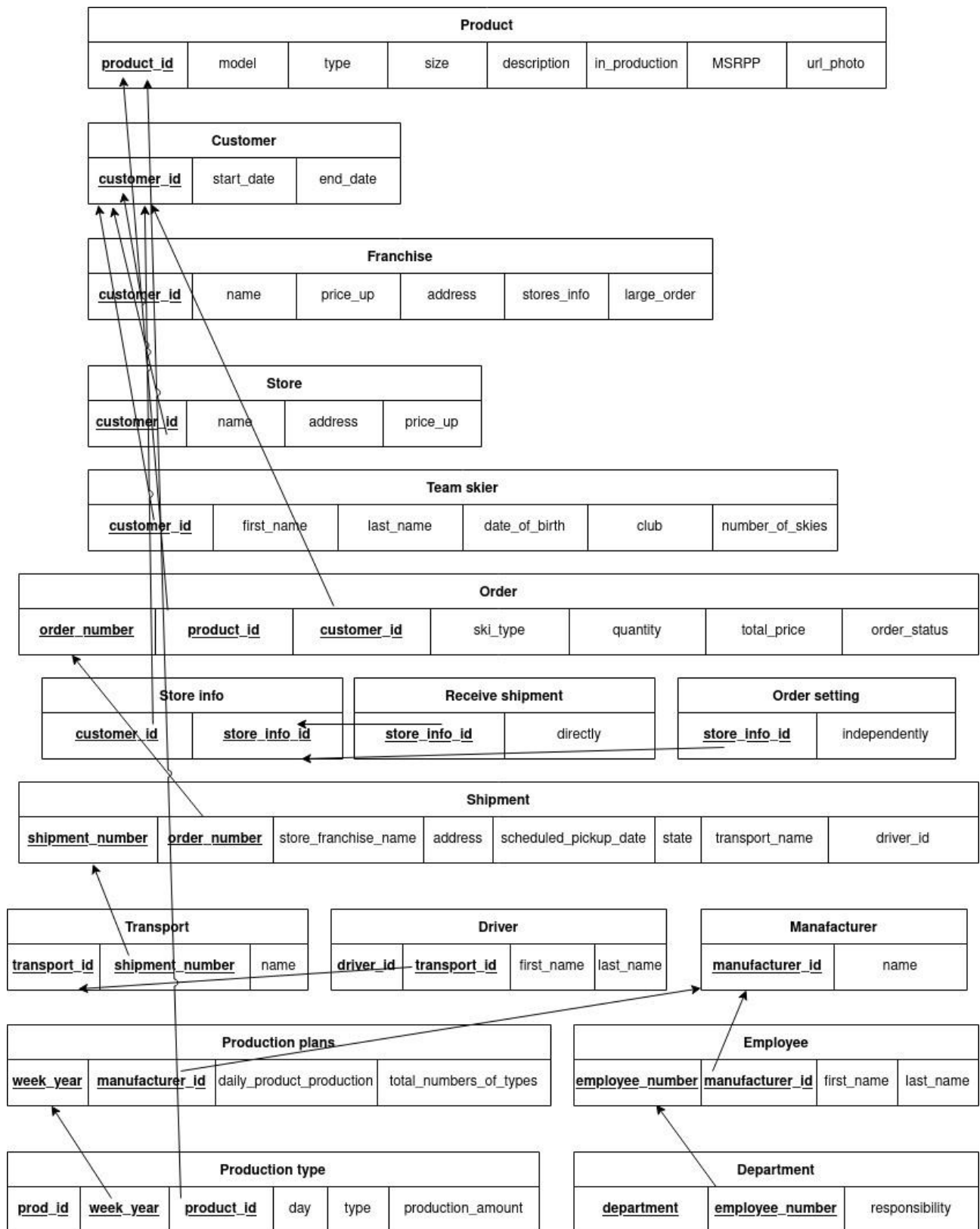Assumptions
- A shipment can have several transporting companies delivering the shipment.
- An order may have several shipments.
- A large order is referenced to the franchise through a aggregation relationship.
- A store might inherit directly from the customer or through a franchise.
- If a store is part of a franchise, it might have store information regarding whether the store can order independently and/or receive shipments directly from the franchise.
- In the driver table, it made sense to include the name (first name and last name) in the table.

Product
PK	product_id
	model
	type
	size
	description
	in_production
	MSRPP
	url_photo

Customer
PK	customer_id
	start_date
	end_date

{Mandatory, or}

◄ orders   0..1

1..*

0..*

Franchise
name
price_up
adress
stores_info[0..*]
large_order[0..*]

◄ is_of_type

0..1

1..1 owns ► 0..*

Store
name
address
price_up

Team Skier
name
first_name
last_name
date_of_birth
club
number_of_skies

1..1   0..1

0..1

◄ orders   0..1   1..1   ◄ orders

0..1

0..* 0..* 0..* 0..*

Order
PK	order_number
	ski_type
	quantity
	/total_price
	order_status

is_of ►   is_of ►

Store info
PK	store_info_id

0..*

{Optional, and}

Order setting
independently

Receive shipment
directly

1..1

◄ ships

1..*

Shipment
PK	shipment_number
	store_franchise_name
	address
	scheduled_pickup_date
	state
	transport_name
	driver_id

1..*

◄ transports

1..1   1..*

Transport
PK	transport_id
	name

◄ drives_for

1..1   1..*

Driver
PK	driver_id
	name
	first_name
	last_name

Production plans
PK	week_year
	daily_product_production[0..*]
	total_numbers_of_types

◄ produces

1..1   1..*

Manufacturer
PK	manufacturer_id
	name

employs ►

1..1   1..*

Employee
PK	employee_number
	name
	first_name
	last_name

1..1

is_part_of ►

1..*

Department
PK	department
	responsibility

◄ is_of_type   produces_type ►

1..1

Production type
PK	prod_id
	day
	type
	production_amount

Product

product_id	model	type	size	description	in_production	MSRPP	url_photo

Customer

customer_id	start_date	end_date

Franchise

customer_id	name	price_up	address	stores_info	large_order

Store

customer_id	name	address	price_up

Team skier

customer_id	first_name	last_name	date_of_birth	club	number_of_skies

Order

order_number	product_id	customer_id	ski_type	quantity	total_price	order_status

Store info

customer_id	store_info_id

Receive shipment

store_info_id	directly

Order setting

store_info_id	independently

Shipment

shipment_number	order_number	store_franchise_name	address	scheduled_pickup_date	state	transport_name	driver_id

Transport

transport_id	shipment_number	name

Driver

driver_id	transport_id	first_name	last_name

Manafacturer

manufacturer_id	name

Production plans

week_year	manufacturer_id	daily_product_production	total_numbers_of_types

Employee

employee_number	manufacturer_id	first_name	last_name

Production type

prod_id	week_year	product_id	day	type	production_amount

Department

department	employee_number	responsibility

Product(product_id, model, type, size, description, in_production, MSRPP, url_photo)
PK product_id

Customer(customer_id, start_date, end_date)
PK customer_id

Franchise(customer_id, name, price_up, address, stores_info, large_order)
PK customer_id
FK customer_id REFERENCES Customer(customer_id)

Store(customer_id, name, address, price_up)
PK customer_id
FK customer_id REFERENCES Customer(customer_id)

Team skier(customer_id, first_name, last_name, date_of_birth, club, number_of_skies)
PK customer_id
FK customer_id REFERENCES Customer(customer_id)

Order(order_number, product_id, customer_id, ski_type, quantity, total_price, order_status)
PK order_number, product_id, customer_id
FK product_id REFERENCES Product(product_id)
FK customer_id REFERENCES Customer(customer_id)

Store info(customer_id, store_info_id)
PK customer_id, store_info_id
FK customer_id REFERENCES Customer(customer_id)

Recieve shipment(store_info_id, directly)
PK store_info_id
FK store_info_id REFERENCES Store info(store_info_id)

Order setting(store_info_id, independently)
PK store_info_id
FK store_info_id REFERENCES Store info(store_info_id)

Shipment(shipment_number, order_number, store_franchise_name, address, scheduled_pickup_date, state, transport_name, driver_id)
PK shipment_number, order_number
FK order_number REFERENCES Order(order_number)

Transport(transport_id, shipment_number, name)
PK transport_id, shipment_number
FK shipment_number REFERENCES Shipment(shipment_number)

Driver(driver_id, transport_id, first_name, last_name)
PK driver_id, transport_id
FK transport_id REFERENCES Transport(transport_id)

Manufacturer(manufacturer_id, name)
PK manufacturer_id

Production plans(week_year, manufacturer_id, daily_product_production, total_numbers_of_types)
PK week_year, manufacturer_id
FK manufacturer_id REFERENCES Manufacturer(manufacturer_id)

Employee(employee_number, manufacturer_id, first_name, last_name)
PK employee_number, manufacturer_id
FK manufacturer_id REFERENCES Manufacturer(manufacturer_id)

Production type(prod_id, week_year, product_id, day, type, production_amount)
PK prod_id, week_year, product_id
FK week_year REFERENCES Production plans(week_year)
FK product_id REFERENCES Product(product_id)

Department(department, employee_number, responsibility)
PK department, employee_number
FK employee_number REFERENCES Employee(employee_number)