ER Diagram (conceptual)

- **has** — relationship between employee and post_office
- **processes** — relationship from employee
- **contains** — relationship between post_office and parcel
- **sender address** (attribute of parcel)
- **receiver address** (attribute of parcel)
- **employee**
- **post_office**
- **parcel**

post_offices

PK	id int NOT NULL
	country varchar(100) NOT NULL
	city varchar(100) NOT NULL
	street varchar(100) NOT NULL
	postal_code INT NOT NULL
	building_number INT NOT NULL

employees

PK	id int NOT NULL
FK1	office_id INT NOT NULL
	f_name varchar(100) NOT NULL
	l_name varchar(100) NOT NULL

address

PK	id int NOT NULL
	country varchar(100) NOT NULL
	city varchar(100) NOT NULL
	street varchar(100) NOT NULL
	postal_code INT NOT NULL
	house_number INT NOT NULL
	door_number INT NOT NULL

parcels

PK	id int NOT NULL
FK1	employee_id int NOT NULL
FK2	sender_address_id INT NOT NULL
FK3	pickup_location_id INT NOT NULL
	description VARCHAR(250) NOT NULL
	sender_name VARCHAR(100) NOT NULL

delivery_processes

PK	id int NOT NULL
FK1	parcel_id int NOT NULL
FK1	receiver_address_id int NOT NULL
	receiver_name VARCHAR(100) NOT NULL
	received_date DATETIME
	delivery_status BIT(1)