

# Database project: Travel agency

## (Milestone 1)

Oliver Baltisberger, Rachid Flueckiger, Christian Pernet

May 19, 2021

### Project description

Our project aims to implement a simple customer relationship management database for a travel agency. Our ER-Model (see next page) has the following features:

- Each travel agency employee works at a specific branch office (e.g. employee Meier works at the branch office in Zurich) and sells trips to clients.
- A trip can consist of several accommodations (e.g. 2 nights at a hotel in Munich, 3 nights at a hostel in Berlin), transport arrangements (e.g. train from Zurich to Munich, flight from Munich to Berlin) and activities (e.g. football match in Munich, historical city tour in Berlin).
- Each trip has one payment (no partial payments allowed), which we consider to be a weak entity (if there is no trip, there is no payment).

### Queries examples

1. List all employees and the number of trips they have sold in the last 12 months.
2. List all employees working at a particular branch office.
3. List the sales (i.e. number of trips sold multiplied by their price) generated by an employee.
4. Make a list of all clients.
5. List all clients sorted by the number of trips they have bought.
6. Make a list of all clients that have booked the same accommodation during a defined period.
7. Make a list of the trips to a specific city/country.
8. Make a list of the trips sold during a defined period.
9. List the average duration/price of a trip.
10. List the preferred payment method for trips.
11. List the most popular months for a trip (e.g. more trips are started in July than in November).
12. Make a list of all accommodations in a country/city.
13. Make a list of all accommodation types (e.g. hotel, vacation homes).
14. What is the most popular accommodation (type) during a defined period?
15. What type of accommodation/transport/activity are most popular?

# ER-Diagram

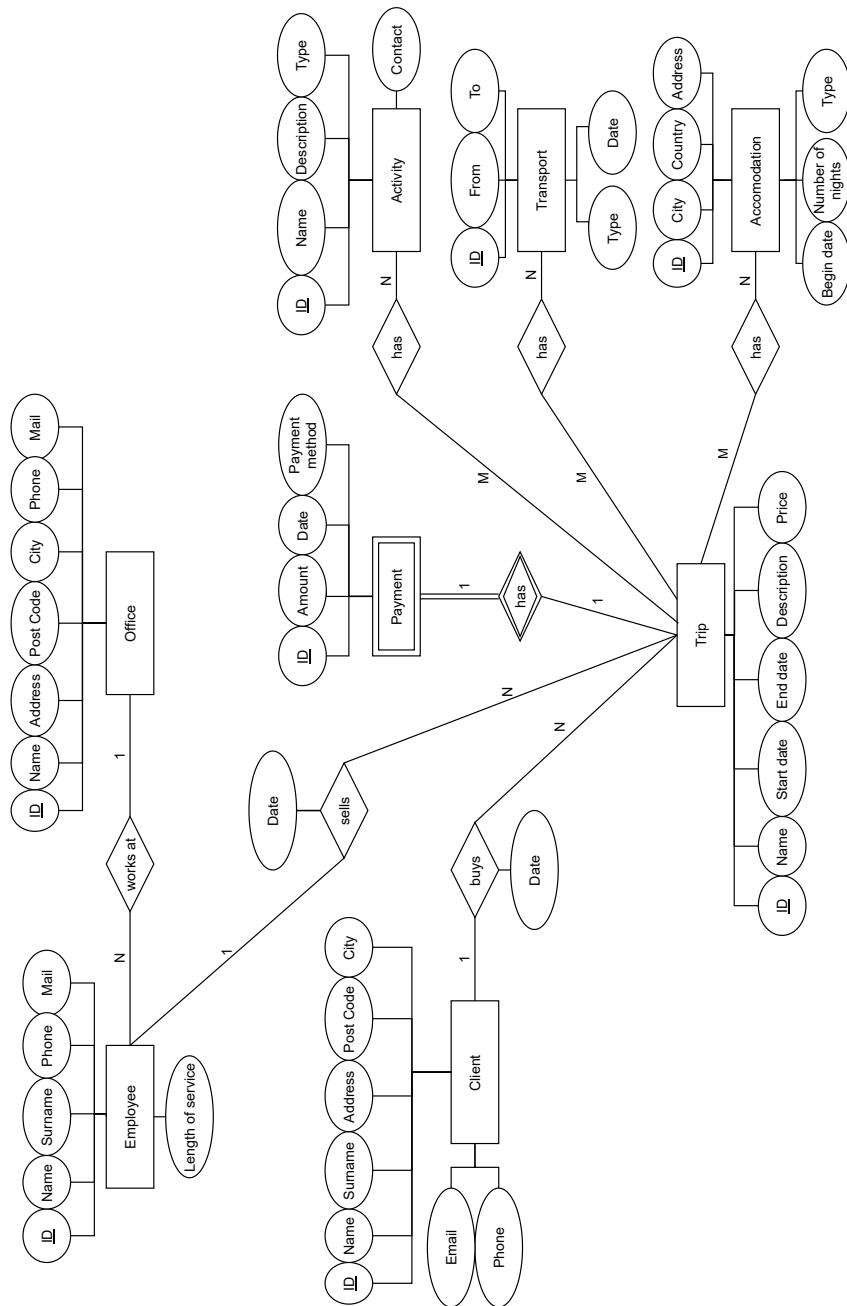


Figure 1: Travel agency ER-Model