

Database project: Travel agency

(Milestone 1)

Oliver Baltisberger, Rachid Flueckiger, Christian Pernet

May 20, 2021

Project description

Our project aims to implement a simple customer relationship management database for a travel agency. Our ER-Diagram (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. List the most popular accommodation (type) during a defined period.
15. List the most popular type of accommodation/transport/activity.

ER-Diagram

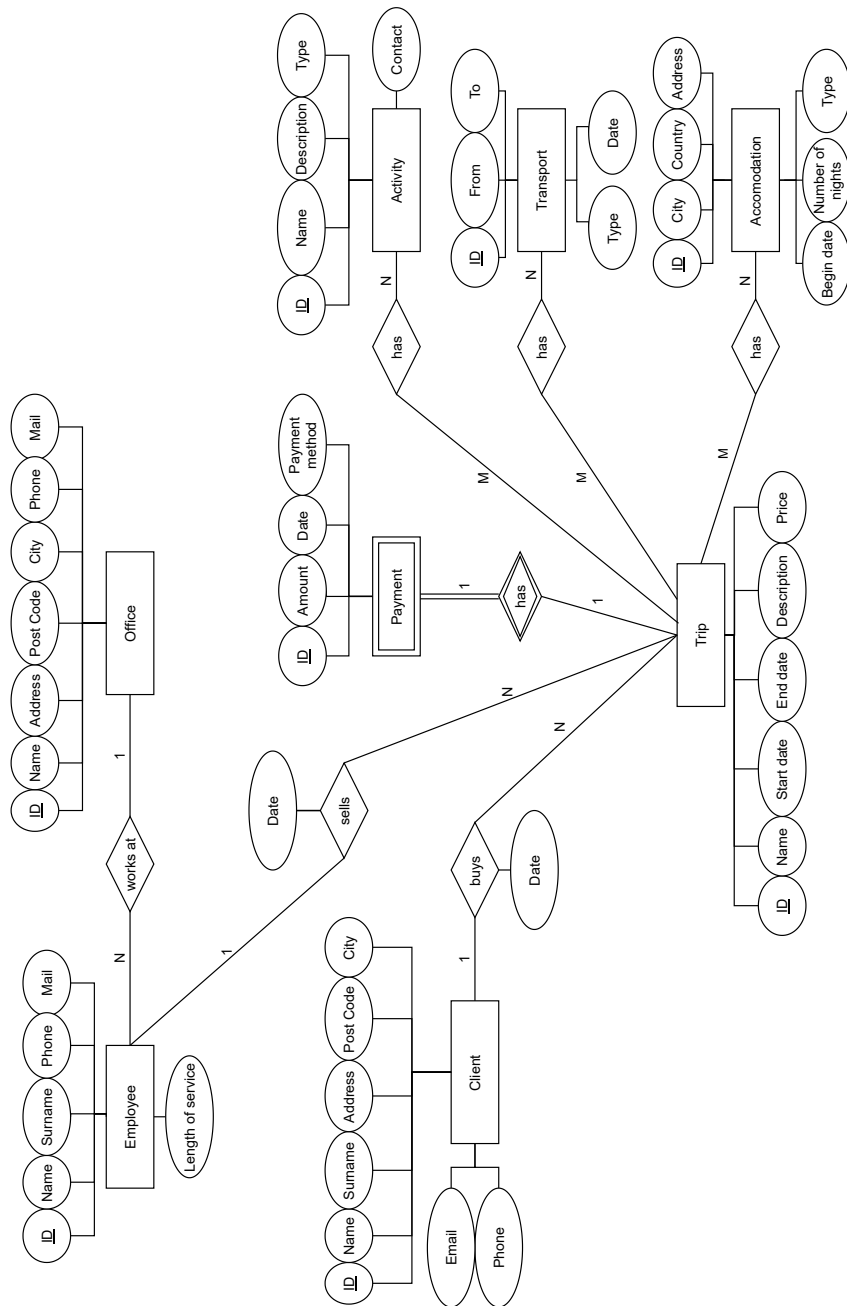


Figure 1: Travel agency ER-Diagram