

# LU03.L02 - Designing an ERD

## Given business case

As overarching goal, we want to administrate our holidays. Though we want to store the following information:

- which countries we visited so far
- how long we stayed in each country
- on which continent each country is located
- the price for each trip
- the date of each trip

## Task: Design a ERD

Analyse the given business case and design an ERD that matches the requirements of the business case.

## Solution

For this scenario, the following entities are identified:

### 1. Country

- Attributes
  - CountryID (Primary Key)
  - CountryName
  - ContinentName

### 2. Trip

- Attributes
  - TripID (Primary Key)
  - CountryID (Foreign Key)
  - StartDate
  - EndDate
  - Price
- Relationships:
  - Country: A trip occurs in one country.
  - Duration: Calculated as the difference between EndDate and StartDate.

### 3. Continent

- Attributes:
  - ContinentID (Primary Key)

- ContinentName
- Relationships:
  - Country: Each country is located on one continent.

#### 4. Relationships:

- One-to-Many:
  - A Continent can have many Countries.
  - A Country can have many Trips.

5 ERD in Crow's feet notation Continent (1) ———< has >———— (∞) Country Country (1) ———< hosts >———— (∞) Trip

## Vocabulary

English	German
prerequisite	Grundvoraussetzung

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