

# LU03.L02 - Designing an ERM

For this scenario, the following entity-types 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. ERM in Crow's feet notation

- Continent (1) ———< has >——— (∞) Country
- Country (1) ———< hosts >——— (∞) Trip

## Vocabulary

English	German
prerequisite	Grundvoraussetzung
given	gegenen

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