

LU03.L02 - Designing an ERD

Given business case

As overreaching 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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