

| Business Template  Climbs for a Mountaineering Club |
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| **Logo / Image** |

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# Business Description

## Business background

The business involves organizing and managing mountain climbing activities. It needs to track important information about climbers, climbs, routes, mountains, equipment, and guides. Having a database helps keep this information organized and easy to access.

## Problems. Current Situation

Currently, the business has trouble managing all this data. Information is scattered and hard to keep track of, leading to mistakes and wasted time. Organizing climbs, tracking equipment, and keeping climbers safe is difficult without a central system.

## the Benefits of implementing a database. Project Vision

A database will solve these problems by keeping all the information in one place. This will make organizing climbs easier, track the equipment better, and help ensure safety. The goal is to build a system where everything is stored and managed efficiently.

# Model description

## Definitions & Acronyms

**Climb**: A registered event where climbers ascend a mountain using a specific route.

**Climber**: An individual participating in a climb.

**Route**: The path that a climber takes to ascend a mountain.

**Guide**: An experienced individual leading or assisting with the climb.

**Equipment**: The gear used during the climb.

**Training**: A session attended by a climber for preparation before a climb.

**Area**: A geographical region where mountains are located.

**Medical Info**: Medical details specific to a climber.

**Weather**: Environmental conditions during a climb.

## Logical Scheme

(See the attached image for the logical structure.)

## Objects

The database now includes the following tables: **climber, climb, route, mountain, area, weather,equipment, trening, guide** and **medicalinfo**. These tables are linked to represent relationships between climbers, mountains, climbs, and safety measures like weather conditions and medical information.

Table Example 1: Climber

* Field Name: climber\_id  
  Description: Unique identifier for each climber. PK.  
  Data Type: Int
* Field Name: name  
  Description: The climber’s name.  
  Data Type: Varchar
* Field Name: address  
  Description: Climber’s home address.  
  Data Type: Text

| Table Name | Field name | Field Description | Data Type |
| --- | --- | --- | --- |
| Climber | climber\_id | PK | Int |
| name | The climber’s name | Varchar |

Comments on table relationships

Example with data

| Climb ID | Climber Name | Mountain Name | Start Date |
| --- | --- | --- | --- |
| 1 | Andrzej Kowalski | Mount Everest | 12.10.2024 |