

# summerhousebookings

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## Summerhouse booking schema

The purpose of this document is to define a data schema for summerhouse booking data on the platform VisitData. The schema definition distinguishes between required and optional fields. Required fields are used in either benchmark calculations or in analytics.

If a client or platform makes data available through an external API, the summerhouse data schema should be used as a check-list. The data-structure on the client site, will likely not match the structure of the platform schema. The important point is, that client data can be mapped to the summerhouse data schema.

If a client or platform sends data to the visitdata platform using the visitdata rest API, the data structure should adhere to the summerhouse data schema.

The data schema contains the following tables. The tables Facilities and Consumption are optional.

### Tables

- Rental Objects
- Calendars
- Reservations
- Facilities
- Consumption

## Summerhouse booking Schema Tables

### RentalObjects

The Rental objects table contains all rental objects. Rental objects are linked to a municipality. The facilities array lists properties of the rental object as defined by the booking platform. The facilities array is optional. Creation and deletion dates are used to identify active rental objects.



```

{
  "rentalobjects": [
    {
      "rentalobjectId": 1,
      "creationDate": "2024-01-08T14:00:00",
      "deletedDate": "",
      "rentalType": "Summerhouse",
      "municipalityId": 665,
      "masterFacilities": [
        {
          "masterFacilityId": 0,
          "value": "2021"
        },
        {
          "masterFacilityId": 1,
          "value": "8"
        },
        {
          "masterFacilityId": 2,
          "value": "2"
        }
      ],
      "postalCode": "2300"
    }
  ]
}

```

Field	Data type	Definition	Required
rentalobjectId	integer/guid	Identifier of the rental object/summerhouse	Yes
creationDate	datetime	The data when the rentalobject was added to the booking platform. The rental object is available for booking from this date. Formatted as yyyy-MM-ddThh:mm:ss	No
deletedDate	datetime	The date where the summerhouse was removed from the booking platform. Null means the rental object is still active. Formatted as yyyy-MM-ddThh:mm:ss	No
rentalType	category	The type of the rental unit	No
municipalityId	integer	The municipality code of the municipality where the rental object is located	Yes
postalCode	integer	Postal code of the summerhouse	Yes
masterFacilities.masterFacilityId	integer	facility identifier, referencing a facility property in the facilities table	No
masterFacilities.value	integer	value of the facility	No

The rentalType can have the following values

rentalType
Summerhouse
Apartment

## Facilities

The facilities table is a list of facilities linked to rental objects. The list of facilities is defined by the source system.

Field	Data type	Definition	Required
rentalobjectId	integer/guid	Identifier of the rental object/summerhouse	Yes
masterFacilityId	integer	The property id of the facility metric	Yes
masterFacilityName	integer	The property name of the facility metric	Yes

## Calendars

The calendar table lists all summerhouse bookings. A summerhouse booking can either be booked or blocked. A blocked booking means the summerhouse is not available for rental. The summerhouse can be used by the owner, unavailable on account of the 43 week rule or unavailable for other reasons. A booking of type booked means the summerhouse is booking through the booking platform by a customer. All booked records in the calendar table will have a corresponding record in the reservations table.

```
{
  "calendars": [
    {
      "rentalobjectId": 3,
      "calendar": [
        {
          "reservationId": "",
          "fromDate": "2024-01-08T14:00:00",
          "toDate": "2024-04-01T10:00:00",
          "bookingType": "b"
        },
        {
          "reservationId": 12346,
          "fromDate": "2024-04-02T14:00:00",
          "toDate": "2024-06-17T10:00:00",
          "bookingType": "B"
        }
      ]
    }
  ]
}
```



Field	Data type	Definition	Required
rentalobjectId	integer/guid	Identifier of the rental object/summerhouse	Yes
calendar.reservationId	integer/guid	Reservation identifier. Can be blank for blocked (b) periods	No
calendar.fromDate	datetime	Arrival date of the booking. Formatted as yyyy-MM-ddThh:mm:ss	Yes
calendar.toDate	datetime	Departure date of the booking. Formatted as yyyy-MM-ddThh:mm:ss	Yes
calendar.bookingType	category	The type of the booking. The booking can either be Booked B or blocked b	Yes

The bookingType column defines, whether a booking is Booked B or blocked b.

bookingType
B
b

## Reservations

A Reservation correspond to a record in the calendar table of type Booking. The reservation table contains reservation details including nationality and booked persons.

```
{
  "reservations": [
    {
      "rentalobjectId": 661,
      "reservationId": 123456,
      "fromDate": "2024-07-23T00:00:00+02:00",
      "toDate": "2024-08-06T00:00:00+02:00",
      "reservationDate": "2023-07-07T19:56:44.987+02:00",
      "adults": 2,
      "children": 3,
      "infants": 0,
      "pets": 3,
      "customer": {
        "country": "DE",
        "postalCode": "38440"
      }
    }
  ]
}
```



Field	Data type	Definition	Required
reservationId	integer/guid	Reservation identifier.	Yes
rentalobjectId	integer/guid	Identifier of the rental object/summerhouse	Yes
fromDate	datetime	Arrival date of the booking. Formatted as yyyy-MM-ddThh:mm:ss	Yes
toDate	datetime	Departure date of the booking. Formatted as yyyy-MM-ddThh:mm:ss	Yes
reservationDate	datetime	The date the reservation was made. Formatted as yyyy-MM-ddThh:mm:ss	Yes
customer.country	string	The country of customer. 2 digit ISO code	Yes
customer.postalCode	integer	The postalcode of the customer	Yes
adults	integer	Number of adults linked to the booking	Yes
children	integer	Number of children linked to the booking	Yes
infants	integer	Number of infants linked to the booking	No
pets	integer	Number of pets linked to the booking	No

## Consumption

Consumption data is linked to a reservation record. The consumption record lists consumption metrics for a specific reservation. Consumption data is not required. Consumption data can be included in the reservation data as a separate object or as an individual table with a reference to a reservation.

```
{
  "consumption": [
    {
      "reservationId": 123456,
      "consumption": [
        {
          "type": "Electricity",
          "unit": "kWh",
          "quantity": 89.00
        }
      ]
    }
  ]
}
```



Field	Data type	Definition	Required
reservationId	integer/guid	Reservation identifier.	Yes
consumption.type	category	The name of the consumption metric, i.e. water	Yes
consumption.quantity	float	The value of the consumption metric	Yes
consumption.unit	string	The unit the consumption metric is measured in	Yes

consumption.type
Electricity
Water
Heating

## Schema Definitions

The list below highlight definitions and calculation rules related to summerhouse booking data.

### Definitions

- All bookings are calculated on a daily basis. So a booking for 5 days during a week counts as 5 days booked and 2 days available
- The arrival date counts as a booked day
- Departure date does not count as a booked day
- A summerhouse is available if the house is either Booked or Available. In other words blocked days are not included in availability.
- Booking percentage is calculated as Booked Days divided by Available Days.
- Active summerhouses is defined as a summerhosue with at least one Booking in the period from February to December. This is calculated on a yearly basis.
- 43 week rules are hanled by the booking platforms by creating blocked periods.

## Load Schedule

Data is loaded weekly. The load includes future bookings, i.e. for the next 12 months. In an initial data load historic data is included, current year - 2 years. After the initial load, data is loaded using a delta load in which new or modified records are returned. Details around the delta load mechanism is discussed per integration.