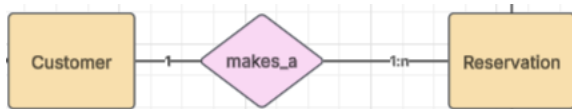


Customer

Attributes:

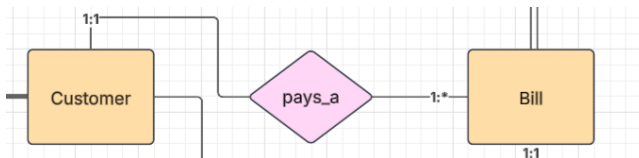
- Passport-Id
- Name
- E-Mail
- Dob
- Phone-Number
- Payment-Method

Relations:



We store customer data and reservation data separately because each customer has to make at least one reservation but can also make more in the future.

One reservation can only be done by one customer.



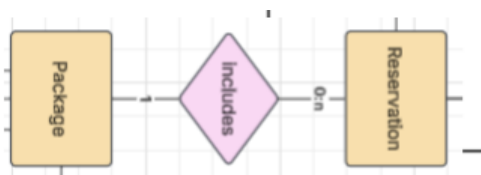
One customer can be in the Hotel several times, therefore has several bills, but in order to be a customer, the person has to pay at least paid a bill one time. And a bill can only be related to exactly one customer.

Reservation

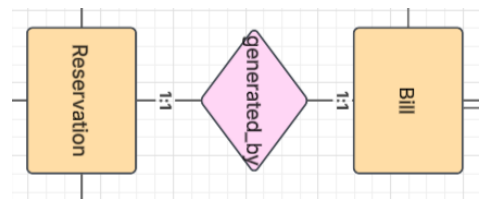
Attributes:

- Method of Reservation
 - o Personal
 - o Telephone
 - o Online
- Date
- Reservation-ID
- Total Price
 - o Is the price that includes the package price and also variable consumptions costs in the hotel during the stay.

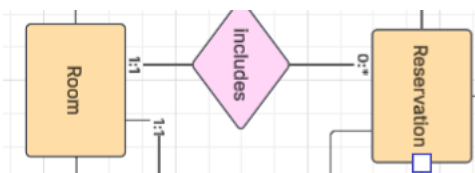
Relations:



One Reservation can only include one Package, but a package can be booked by either zero or multiple reservations.



The Bill and the Reservation are tied to one another, so we have a 1:1 relation in both directions. A bill is generated by the information of the reservation. And the reservation can only produce one final bill. (In this hotel, we assume, that if you buy something, you have a card from the hotel you pay with, and this is then paid at all at the end)



A Reservation exactly books one Room, but a room can be booked by several Reservations.

Bill:

Attributes:

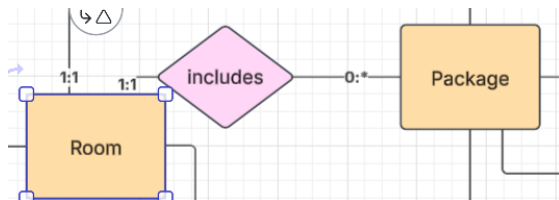
- Paid
 - o Is it paid yet? Boolean
- Price
- Invoice Date
- Bill Nr.

Package

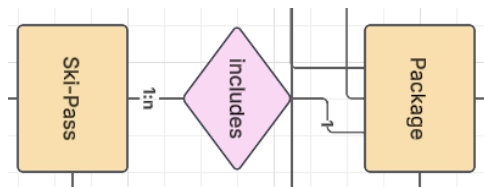
Attributes:

- Package-ID
- Price
 - Is the price that is known ahead of time and is generated by the prices of the accommodation and Ski-Passes

Relations:



Each package has exactly one Room, but each Room could belong to either zero or multiple packages.



Each Package has to have at least one Ski-pass associated to it, but can also have several. And each Ski-pass has exactly one Package.

Room

Attributes:

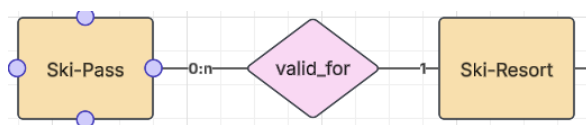
- Time-Period
 - How long the customer stays in the hotel
- Room-Type
 - Single-Standard
 - Single-Deluxe
- Floor
- Room-Nr
- Price-per-Night
 - Fixed amount depending on the type of room

Ski-Pass

Attributes:

- Price
- Type
 - o Daypass
 - o Weekpass
 - o Seasonpass
- Time-Period
 - o From when to when
- Ski-Pass-Nr

Relations:



Each Ski-Pass has exactly one Ski-Resort that it is valid for, but a Ski-Resort can have multiple Ski-Passes that are valid for it, or zero.

Ski-Resort

Attributes:

- Name
- Difficulty
- Location
- Size