



Data dictionary

Attribute	datatype	entity	description
name	varchar (50)	user,agent	variable size data containing the name of the user or of the support agent
surname	varchar (50)	user	surname of the user
gender	char(1)	user,agent	gender represented by a letter M (male),F(female) or O (for other)
photo	mediumblob	user,agent,accomodation	photo with a limit of 16,777,215 bytes
date_of_birth	date	user	date of birth of the user, can provide age information
join_date	date	user,agent	date of account creation
country	char(2)	user,address,bank_account	country represented by alpha-2 (2 letters system) example: Germany = DE
user_id	integer(7)	user	artificial key in the form of an auto-incremented integer that serves as primary key for the table
guest_rater,host_rated,host_rater guest_rated	integer(7)	guest_rating_host, host_rating_guest	foreign keys both referencing table user to allow rating each other
IBAN,BIC/SWIFT	char(64)	bank_account	host banking info for receiving bank transfers from airbnb or guest's banking info to pay airbnb hashed with sha-256 algorithm
type,card_number,expiry_date, CVC	char(64)	credit_card	guest credit card info used to pay airbnb hashed with sha-256 algorithm
type	char(10)	payment_info	helps understand along with one of the foreign keys in the table if the information is for payment or to receive money (more so in the case of the guest)
stars	tinyint(1)	host_rating_guest, guest_rating_host	integer from 1 to 5 used to evaluate the experience as a guest or as a host
comment	text	host_rating_guest, guest_rating_host	short text comment on the guest or on the host and the accommodation experience
english, spanish,french,portuguese,russian chinese, hindi,japanese	boolean	languages	boolean value 0 or 1 (False or True respectively) to describe if a user has knowledge of the language or not
type	varchar(25)	voucher	used to represent the type of voucher for the specific action_id, for example "Discount_5%", "Book1get1"
start_date,end_date	date	voucher	define the time schedule for a specific voucher
limit_use	tinyint(2)	voucher	integer with 2 characters used to limit the number of times a voucher can be used
voucher_number	integer(8)	voucher	8-number integer used to attribute a number to a voucher which the user can use as input to apply the discount to a booking
phone_number	varchar(30)	contact	user's phone number
email	varchar(50)	contact	user's email address
username	varchar(50)	login	login username used to login into the app
password	char(64)	login	used along username to login into the app, hashed value with sha-256
last_online	timestamp	login	time stamp that tracks user behavior changing everytime the user goes offline, also useful in the context of knowing if the host has been active recently or not which might influence a booking
start_date, end_date	datetime	booking	contains the period of time for which the booking as been made
number_guests	tinyint(2)	booking	number describing the number of guests
number_children	tinyint(2)	booking	quantifies the number of children accompanying the guest(s)
description	text	booking_help	request inserted by the user relating to a booking which describes the issue encountered or request for information
type	varchar(10)	accommodation	used to describe the type of accommodation, example "room", "apartment",etc
photo	mediumblob	photos	photo related to the foreign key accommodation_id in the table, a way to allow multiple photos for an accommodation
price_per_day	decimal(6,2)	accommodation	price per day of the accommodation, allows a maximum value of 999999.99
calendar_date	date	calendar	primary key of the table calendar, can range from 2022/01/01 to 2032 for example. Used for calculations along the booking table start, end_date to display the availability of an accommodation on the app.
max_checkin, max_checkout	time	accommodation	the earliest and latest allowed by the host for check-in and check-out times
number_guests_allowed, max_number_children	tinyint(2)	accommodation	maximum number of guests and accompanying children allowed by the host
description	text	accommodation	description of the accommodation and additional information provided by the host in the form of a small text

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room_belongs_to	integer	accommodation	recursive relationship that points back to the accommodation table in the sense that if the accommodation is a room it might or not be part of a major accommodation an entire apartment for example
state	varchar(50)	address	contains the state information for the address table
city	varchar(50)	address	contains the city information for the address table
street	varchar(50)	address	contains the street information for the address table
house_number	smallint(4)	address	contains the house number for the address table
floor	smallint(3)	address	contains the floor number for the address table
zip_code	varchar(15)	address	contains the zip code for the address table
wifi,kitchen,air_conditioning, washer,iron,	boolean	amenities	serves to inform in the form of True or False if the accommodation features or not the amenity
free_parking, pool, self_checkin, hair_dryer, heating	boolean	amenities	serves to inform in the form of True or False if the accommodation features or not the amenity
pets, visitors, smoking	boolean	allowed	True or False values that provides rules defined by the host allowing or not the thing
account_id	integer	bank_account	artificial key in the form of an auto-incremented integer that serves as primary key for the table
payment_info_id	integer	payment_info	artificial key in the form of an auto-incremented integer that serves as primary key for the table
card_id	integer	credit_card	artificial key in the form of an auto-incremented integer that serves as primary key for the table
g_rating_id	integer	guest_rating_host	artificial key in the form of an auto-incremented integer that serves as primary key for the table
h_rating_id	integer	host_rating_guest	artificial key in the form of an auto-incremented integer that serves as primary key for the table
languages_id	integer	languages	artificial key in the form of an auto-incremented integer that serves as primary key for the table
action_id	integer	voucher	artificial key in the form of an auto-incremented integer that serves as primary key for the table
contact_id	integer	contact	artificial key in the form of an auto-incremented integer that serves as primary key for the table
login_id	integer	login	artificial key in the form of an auto-incremented integer that serves as primary key for the table
booking_id	integer	booking	artificial key in the form of an auto-incremented integer that serves as primary key for the table
agent_id	integer	agent	artificial key in the form of an auto-incremented integer that serves as primary key for the table
help_id	integer	booking_help	artificial key in the form of an auto-incremented integer that serves as primary key for the table
allowed_id	integer	allowed	artificial key in the form of an auto-incremented integer that serves as primary key for the table
amenities_id	integer	amenities	artificial key in the form of an auto-incremented integer that serves as primary key for the table
address_id	integer	address	artificial key in the form of an auto-incremented integer that serves as primary key for the table
accommodation_id	integer	accommodation	artificial key in the form of an auto-incremented integer that serves as primary key for the table
photo_id	integer	photos	artificial key in the form of an auto-incremented integer that serves as primary key for the table
type	char(1)	user	describes the type of user "G" guest or "H" host