Data Dictionary

Table Name: User

Field Name	Data Type	Length	Description
UserID	INT	-	Unique identifier for each user.
Name	VARCHAR	100	Full name of the user.
Email	VARCHAR	100	Email address for login and notifications.
PhoneNumber	VARCHAR	15	Contact phone number of the user.
ReferredByUserID	INT	-	Reference to the user who referred them.
LocationID	INT	-	Foreign key linking to the Location table.

Table Name: Admin

Field Name	Data Type	Length	Description
AdminID	INT	-	Unique identifier for each admin.
UserID	INT	-	Foreign key linking to the user's ID.
RoleDescription	VARCHAR	255	Description of the admin's role.

Table Name: HostProfile

Field Name	Data Type	Length	Description
HostID	INT	-	Unique identifier for each host profile.
UserID	INT	-	Foreign key linking to the user's ID.
Rating	DECIMAL	(3,2)	Average rating for the host.
VerificationStatus	ENUM('Verified', 'Pending', 'Unverified')	-	Status of the host's verification.

Table Name: GuestProfile

Field Name	Data Type	Length	Description
GuestID	INT	-	Unique identifier for each guest profile.
UserID	INT	-	Foreign key linking to the user's ID.
Preferences	TEXT	-	Description of guest's accommodation preferences.

Table Name: Location

Field Name	Data Type	Length	Description
LocationID	INT	-	Unique identifier for each location.
City	VARCHAR	100	Name of the city.
Country	VARCHAR	100	Name of the country.
PostalCode	VARCHAR	10	Postal or ZIP code.

Table Name: Accommodation

Field Name	Data Type	Length	Description
AccommodationID	INT	-	Unique identifier for each accommodation.
HostID	INT	-	Foreign key linking to the host profile.
LocationID	INT	-	Foreign key linking to the location.
Description	TEXT	-	Description of the accommodation.
PricePerNight	DECIMAL	(10,2)	Price per night for booking.
ParentAccommodationID	INT	-	ID of parent accommodation if part of a larger property set.

Table Name: Amenities

Field Name	Data Type	Length	Description
AmenityID	INT	-	Unique identifier for each amenity.
AmenityName	VARCHAR	50	Name of the amenity (e.g., WiFi, Parking).

Table Name: AccommodationAmenities

Field Name	Data Type	Length	Description
AccommodationID	INT	-	Foreign key linking to Accommodation.
AmenityID	INT	-	Foreign key linking to Amenities.

Table Name: Booking

Field Name	Data Type	Length	Description
BookingID	INT	-	Unique identifier for each booking.
GuestID	INT	-	Foreign key linking to GuestProfile.
AccommodationID	INT	-	Foreign key linking to Accommodation.
BookedByUserID	INT	-	Foreign key linking to the User who made the booking.
BookingDate	DATE	-	Date when the booking was made.
CheckInDate	DATE	-	Scheduled check-in date.
CheckOutDate	DATE	-	Scheduled check-out date.
TotalCost	DECIMAL	(10,2)	Total cost of the booking.

Table Name: Payment

Field Name	Data Type	Length	Description
PaymentID	INT	-	Unique identifier for each payment.
BookingID	INT	-	Foreign key linking to Booking.
PaidByUserID	INT	-	Foreign key linking to the User table, identifies who made the payment.
Amount	DECIMAL	(10,2)	Amount paid by the guest.
Status	ENUM('Pending', 'Completed', 'Failed')	-	Status of the payment.
PaymentDate	DATE	-	Date of payment.

Table Name: Transaction

Field Name	Data Type	Length	Description
TransactionID	INT	-	Unique identifier for each transaction.
PaymentID	INT	-	Foreign key linking to Payment.
TransactionDate	DATE	-	Date the transaction was processed.
TransactionAmount	DECIMAL	(10,2)	Amount involved in the transaction.

Table Name: Review

Field Name	Data Type	Length	Description
ReviewID	INT	-	Unique identifier for each review.
AccommodationID	INT	-	Foreign key linking to Accommodation.
UserID	INT	-	Foreign key linking to User.
Rating	INT	-	Rating score, typically 1 to 5.
Comment	TEXT	-	Written feedback by the reviewer.
Date	DATE	-	Date the review was submitted.

Table Name: Availability

Field Name	Data Type	Length	Description
AvailabilityID	INT	-	Unique identifier for each availability entry.
AccommodationID	INT	-	Foreign key linking to Accommodation.
AvailableDate	DATE	-	Date of availability.
IsAvailable	BOOLEAN	-	Indicates if the accommodation is available.

Table Name: Calendar

Field Name	Data Type	Length	Description
CalendarID	INT	-	Unique identifier for each calendar entry.
AccommodationID	INT	-	Foreign key linking to Accommodation.
Date	DATE	-	Specific date entry in the calendar.
BookingStatus	ENUM('Available', 'Booked', 'Unavailable')	-	Status of the accommodation on the date.

Table Name: IncomeCalculator

Field Name	Data Type	Length	Description
CalculatorID	INT	-	Unique identifier for income calculation entry.
HostID	INT	-	Foreign key linking to HostProfile.
EstimatedIncome	DECIMAL	(10,2)	Estimated income based on bookings.

Table Name: Discount

Field Name	Data Type	Length	Description
DiscountID	INT	-	Unique identifier for each discount entry.
AccommodationID	INT	-	Foreign key linking to Accommodation.
DiscountPercentage	DECIMAL	(5,2)	Percentage discount applied to bookings.
StartDate	DATE	-	Date the discount starts.
EndDate	DATE	-	Date the discount ends.

Table Name: Message

Field Name	Data Type	Length	Description
MessageID	INT	-	Unique identifier for each message.
SenderUserID	INT	-	Foreign key linking to User (sender).
ReceiverUserID	INT	-	Foreign key linking to User (receiver).
MessageContent	TEXT	-	Content of the message.
Timestamp	DATETIME	-	Date and time when the message was sent.

Table Name: Rating

Field Name	Data Type	Length	Description
RatingID	INT	-	Unique identifier for each rating.
AccommodationID	INT	-	Foreign key linking to Accommodation.
Score	INT	-	Rating score, typically from 1 to 5.

Table Name: SocialMediaLink

Field Name	Data Type	Length	Description
LinkID	INT	-	Unique identifier for each social media link.
UserID	INT	-	Foreign key linking to User.
PlatformName	VARCHAR	50	Name of the social media platform (e.g., Facebook).
ProfileLink	VARCHAR	255	URL to the user's profile on the platform.

Table Name: PropertyPreference

Field Name	Data Type	Length	Description
PreferenceID	INT	-	Unique identifier for each preference.
UserID	INT	-	Foreign key linking to User.
PreferenceType	VARCHAR	50	Type of preference (e.g., room type).
PreferenceValue	VARCHAR	50	Value for the specified preference type.

Table Name: InsurancePolicy

Field Name	Data Type	Length	Description
PolicyID	INT	-	Unique identifier for each policy.
AccommodationID	INT	-	Foreign key linking to Accommodation.
CoverageAmount	DECIMAL	(10,2)	Amount covered by the policy.
Premium	DECIMAL	(10,2)	Policy premium cost.
ProviderName	VARCHAR	100	Name of the insurance provider.

Table Name: Commission

Field Name	Data Type	Length	Description
CommissionID	INT	-	Unique identifier for each commission entry.
BookingID	INT	-	Foreign key linking to Booking.
PlatformFee	DECIMAL	(10,2)	Commission fee retained by the platform.
HostFee	DECIMAL	(10,2)	Commission fee charged to the host.

Table Name: ListingImage

Field Name	Data Type	Length	Description
ImageID	INT	-	Unique identifier for each image entry.
AccommodationID	INT	-	Foreign key linking to Accommodation.
ImagePath	VARCHAR	255	File path or URL of the listing image.

Table Name: HouseRules

Field Name	Data Type	Length	Description
RuleID	INT	-	Unique identifier for each rule.
RuleDescription	TEXT	-	Description of the house rule.

Table name: Neighborhood

Field Name	Data Type	Length	Description
NeighborhoodID	INT	-	Unique identifier for each neighborhood.
LocationID	INT	-	Foreign key referencing the Location table.
Description	TEXT	-	Description of the neighborhood.

Table Name: AccommodationHouseRules

Field Name	Data Type	Length	Description
AccommodationID	INT	-	Foreign key linking to the Accommodation table.
RuleID	INT	-	Foreign key linking to the HouseRules table.