

Data Dictionary of Datamart-myAirbnb project

21 Entities

- Users - *(to store user information)*
- Languages – *(to store various languages that can be spoken by users)*
- Users_Languages – *(to store various languages spoken by each user)*
- Notification - *(to store user notifications)*
- Message - *(to store messages alongside with senders and receivers)*
- User_Social_Network - *(to store social network information regarding users)*
- Host - *(to store host profiles alongside with host descriptions)*
- Host_Review - *(to store reviews given to hosts)*
- Guest - *(to store guest profiles alongside with guest descriptions)*
- Guest_Review - *(to store reviews given to guests)*
- Property - *(to store property information alongside with associated hosts)*
- Address - *(to store address information of associated properties)*
- Property_Image - *(to store images of associated properties)*
- Rules – *(to store property rules)*
- Property_Rules - *(to store property rules connecting with associated properties)*
- Available_Periods - *(to store available periods of associated properties)*
- Facility - *(to store Facilities that a property can have)*
- Property_Facility - *(to store included facilities in a specific property)*
- Booking - *(to store bookings made by guest in renting properties)*
- Payment - *(to store payment information alongside with associated host and the property for which the payment was paid)*
- Property_Review - *(to store reviews of properties given by guests)*

Users table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
UserID	INT	✓	✓		✓	✓			PK of Users
First_Name	VARCHAR(45)		✓						Users' first names
Last_Name	VARCHAR(45)		✓						Users' last names
Email	VARCHAR(100)		✓						Users' emails
Gender	ENUM('Male', 'Female')		✓						Male or Female

Profile_Picture	VARCHAR(255)		✓						Profile photo (Links to pictures)
Phone_ Number	VARCHAR(30)		✓						Users' Phone numbers
Date_Of_Birth	DATE		✓						Birthdate
Bank_Account	VARCHAR(50)		✓						Bank acc number
Registration_ Date	TIMESTAMP		✓	CURRENT_ TIMESTAMP					Registered date time
User_Type	ENUM('Host', 'Guest')		✓						Host or Guest
Password	VARCHAR(45)		✓						Account password

Languages table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
LanguageID	INT	✓	✓		✓	✓			PK of Languages table
Language	VARCHAR(20)		✓						Variety of Languages

Users_Languages table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
UserLanguageID	INT	✓	✓		✓	✓			PK of Users_Languages
Spoken_Ability	ENUM (‘First Language’, ‘Second Language’)		✓						Proficiency of each language the user can speak
UserID	INT	✓	✓				✓	Users	Composite PK (FK)
LanguageID	INT	✓	✓				✓	Languages	Composite PK (FK)

Notification table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
NotificationID	INT	✓	✓		✓	✓			PK of Notification table
Notification_Text	TEXT		✓						Notification Contents
Is_Read	TINYINT		✓						0 - unread 1 - read
UserID	INT		✓				✓	Users	FK of Notification

Message table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
MessageID	INT	✓	✓		✓	✓			PK of Message
Message_Text	TEXT		✓						Message contents
Sent_time	TIMESTAMP		✓						Message sent time
Is_Read	TINYINT		✓						0 - unread 1 - read
Read_time	TIMESTAMP			NULL					If read, Message read time
SenderID	INT		✓				✓	Users	FK of Message
ReceiverID	INT		✓				✓	Users	FK of Message

User_Social_Network table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
UserSocialNetworkID	INT	✓	✓		✓	✓			PK of User_Social_Network
Social_Platform	VARCHAR(45)		✓						Social platform name
Social_URL	VARCHAR(255)		✓						Link to social media profile
UserID	INT		✓				✓	Users	FK of User_Social_Network

Host table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
HostID	INT	✓	✓		✓	✓			PK of Host
Host_Description	TEXT		✓						Host Bio
UserID	INT		✓		✓		✓	Users	FK of Host

Host_Review table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default		UQ	AI		
HostReviewID	INT	✓	✓			✓	✓		PK of Host_review
Rating	TINYINT		✓						1 to 5 rating
Comment	TEXT								Optional comments

Reviewed_Date	TIMESTAMP		✓	CURRENT_TIMESTAMP					Reviewed date time
HostID	INT		✓				✓	Host	FK of Host_review

Guest table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
GuestID	INT	✓	✓		✓	✓			PK of Guest
Guest_Description	TEXT		✓						Guest Bio
UserID	INT		✓		✓		✓	Users	FK of Guest

Guest_Review table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default		UQ	AI	FK	
GuestReviewID	INT	✓	✓			✓	✓		PK of Guest_Review
Rating	TINYINT		✓						1 to 5 rating
Comment	TEXT								Optional comments
Reviewed_Date	TIMESTAMP		✓	CURRENT_TIMESTAMP					Reviewed date time
GuestID	INT		✓					✓	FK of Guest_Review

Property table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
PropertyID	INT	✓	✓		✓	✓			PK of Property
Property_Name	VARCHAR(100)		✓						Name of Property
Property_Type	VARCHAR(45)		✓						Property Type
Property_Description	TEXT		✓						Property Description
Room_Numbers	INT		✓						Numbers of Rooms
Price_Per_Night	DECIMAL(10,2)		✓						Cost Per Night
Is_There_Kitchen	TINYINT		✓						0 – No 1 – Yes
Is_There_Bathroom	TINYINT		✓						0 – No 1 – Yes
Max_Guests_Allowed	INT		✓						Max numbers of guests allowed

HostID	INT		✓				✓	Host	FK of Property
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Address table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
AddressID	INT	✓	✓		✓	✓			PK of Address
Country_Name	VARCHAR(45)		✓						Country Name
Country_Code	VARCHAR(3)		✓						Country Code
City	VARCHAR(45)		✓						City Name
Postal_Code	VARCHAR(8)		✓						Zip code
Street	VARCHAR(100)		✓						Street address
Building_Number	VARCHAR(10)								Optional Building Number
PropertyID	INT		✓		✓		✓	Property	FK of Address

Property_Image table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
PropertyImageID	INT	✓	✓		✓	✓			PK of Property_Image
Property_Image	VARCHAR(255)		✓						Property images (Links to images)
PropertyID	INT		✓				✓	Property	FK of Property_Image

Rules table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
RuleID	INT	✓	✓		✓	✓			PK of Rules
Rule_Description	TEXT		✓						Rules of properties

Property_Rules table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
PropertyRuleID	INT	✓	✓		✓	✓			PK of Property_Rules
PropertyID	INT	✓	✓				✓	Property	Composite PK (FK)
RuleID	INT	✓	✓				✓	Rules	Composite PK (FK)

Available_Periods table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		

AvailablePeriodsID	INT	✓	✓		✓	✓			PK of Available_Periods
Start_Date	TIMESTAMP		✓						Start available date and time
End_Date	TIMESTAMP		✓						End date and time of availability
Immediate_Availability	TINYINT		✓						0 – No 1 – Yes
PropertyID	INT		✓				✓	Property	FK of Available_Periods

Facility table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
FacilityID	INT	✓	✓		✓	✓			PK of Facility
Item	VARCHAR(45)		✓						Facility Item Name
Quantity	INT		✓						Quantity of items

Property_Facility table

Column Name	Data Type	Constraints						Reference	Description
		PK	NN	Default	UQ	AI	FK		
PropertyFacilityID	INT	✓	✓		✓	✓			PK of Property_Facility
PropertyID	INT	✓	✓				✓	Property	Composite PK (FK)
FacilityID	INT	✓	✓				✓	Facility	Composite PK (FK)

Booking table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default		UQ	AI	FK	
BookingID	INT	✓	✓			✓	✓		PK of Booking
Start_Date	TIMESTAMP		✓						Start date and time of rent period
End_Date	TIMESTAMP		✓						End date and time of rent period
Guest_Numbers	INT		✓						Number of guests stayed in this rent
Cost	DECIMAL (10,2)		✓						Total cost for rent booking
Booking_Made_Date	TIMESTAMP		✓	CURRENT_TIMESTAMP					Booking making date and time

Booking_Status	ENUM (‘Reviewing’, ‘Approved’, ‘Rejected’)		✓	Reviewing					Booking request status
PropertyID	INT		✓				✓	Property	FK of Booking
GuestID	INT		✓				✓	Guest	FK of Booking

Payment table

Column Name	Data Type	Constraints						Referenced table	Description
		PK	NN	Default	UQ	AI	FK		
PaymentID	INT	✓	✓		✓	✓			PK of Payment
Currency	VARCHAR(10)		✓						Currency code
Total_Amount	DECIMAL(10,2)		✓						Total amount of host getting paid
Payment_Date	TIMESTAMP		✓						Payment making date and time
Payment_Status	ENUM(‘Success’, ‘Failed’)		✓						Payment status
BookingID	INT		✓		✓		✓	Booking	FK of Payment
PropertyID	INT		✓				✓	Property	FK of Payment
HostID	INT		✓				✓	Host	FK of Payment

Property_Review table

Column Name	Data Type	Constraints						Reference	Description
		PK	NN	Default		UQ	AI	FK	
Property ReviewID	INT	✓	✓			✓	✓		PK of Property_Review
Rating	TINYINT		✓						1 to 5 rating
Comment	TEXT								Optional comments
Reviewed_Date	TIMESTAMP		✓	CURRENT_TIMESTAMP					Reviewed date and time
GuestID	INT		✓					✓	Guest FK of Property_Review
PropertyID	INT		✓					✓	Property FK of Property_Review