

Airbnb System Relational Schema

Relations:

- User(AccountID, FirstName, LastName, Day, Month, Year, PersonalEmail, WorkEmail, PhoneNumber, ProfilePhotoLink, Description, Number, Street, City, State, Zip)
- Languages_Spoken(AccountID (FK), Language)
- Host(AccountID (FK), isSuperhost, ReviewsAbout, ReviewsWritten, CancellationRate, ResponseRate)
- Guest(AccountID (FK), ReviewsAbout, ReviewsWritten)
- Payout_Method(PayoutMID, AccountID (FK), PayoutDetails)
- Payment_Method(PaymentMID, AccountID (FK), PaymentDetails)
- Booking(BookingID, PaymentMID (FK), PayoutMID (FK), AccountID (FK), ListingID (FK), StartDate, EndDate, DateOfBooking, Discounts, ServiceFee, ListPrice, CleaningFees)
- Guest_Review(BookingID (FK), Rating, Comment)
- Host_Review(BookingID (FK), Rating, Comment)
- Listing(ListingID, AccountID (FK), Number, Street, City, State, Zip, AverageRating, NumGuests, Description, BookingType, CancellationPolicy, LocationDescription)
- Accessibility(ListingID (FK), AccessibilityFeature)
- Picture_Link(ListingID (FK), PictureLink)
- Health_Safety(ListingID (FK), HealthSafetyFeature)
- Rental_Listing(ListingID (FK), NumBedrooms, NumBathrooms, NumBeds, PricePerNight, HouseRules, HouseManual, CheckInInstructions, CleaningFee, ServiceFee, MinLengthOfStay, MaxLengthOfStay, PrepTimeRequired)
- Rental_Amenity(AmenityName, Category)
- Has_Amenity(ListingID (FK), AmenityName (FK))
- Experience_Listing(ListingID (FK), Modality, LengthOfTime, Price, GuestRequirements)
- What_To_Bring(ListingID (FK), ItemToBring)
- Whats_Included(ListingID (FK), ItemIncluded)
- Qualities(ListingID (FK), Quality)
- Themes(ListingID (FK), Theme)
- Languages_Offered(ListingID (FK), Language)
- Wishlist(AccountID (FK))
- Wishlist_Listing(AccountID (FK), ListingID (FK))
- Guidebook(AccountID (FK), GuidebookID)

- Guidebook_Entry((AccountID, GuidebookID) (FK), EntryName, EntryType, Description, Category)
- Guidebook_For_Listing((AccountID, GuidebookID) (FK), ListingID (FK))

Foreign Keys:

- Language_Spoken.AccountID references User.AccountID
- Host.AccountID references User.AccountID
- Guest.AccountID references User.AccountID
- Payout_Method.AccountID references Host.AccountID
- Payment_Method.AccountID references Guest.AccountID
- Booking.PaymentMID references Payment_Method.PaymentMID
- Booking.PayoutMID references Payout_Method.PayoutMID
- Booking.AccountID references Guest.AccountID
- Booking.ListingID references Listing.ListingID
- Guest_Review.BookingID references Booking.BookingID
- Host_Review.BookingID references Booking.BookingID
- Listing.AccountID references Host.AccountID
- Accessibility.ListingID references Listing.ListingID
- Picture_Link.ListingID references Listing.ListingID
- Health_Safety.ListingID references Listing.ListingID
- Rental_Listing.ListingID references Listing.ListingID
- Has_Amenity.ListingID references Listing.ListingID
- Has_Amenity.AmenityName references Amenity.AmenityName
- Experience_Listing.ListingID references Listing.ListingID
- What_To_Bring.ListingID references Experience_Listing.ListingID
- Whats_Included.ListingID references Experience_Listing.ListingID
- Qualities.ListingID references Experience_Listing.ListingID
- Themes.ListingID references Experience_Listing.ListingID
- Languages_Offered.ListingID references Experience_Listing.ListingID
- Wishlist.AccountID references Guest.AccountID
- Wishlist_Listing.AccountID references Wishlist.AccountID
- Wishlist_Listing.ListingID references Listing.ListingID
- Guidebook.AccountID references Host.AccountID
- Guidebook_Entry.(AccountID, GuidebookID) references Guidebook.(AccountID, GuidebookID)
- Guidebook_For_Listing.(AccountID, GuidebookID) references Guidebook.(AccountID, GuidebookID)
- Guidebook_For_Listing.ListingID references Listing.ListingID