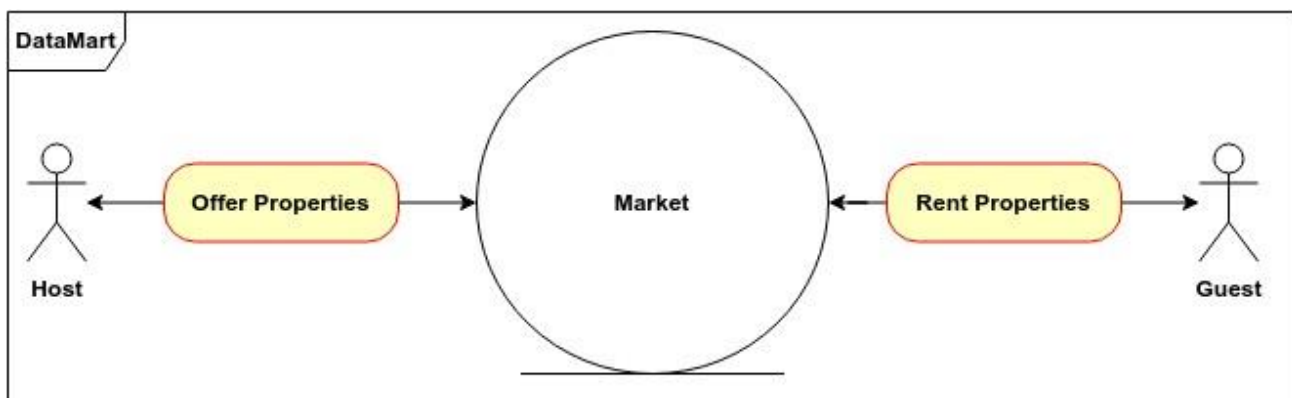


Database for renting houses, apartments, and rooms

renting_db

The major aim of this project was to create a DataMart that would allow users to insert, delete manipulate and retrieve data. The functionality of this DataMart is evolved and applied in Relational Database Management System MySQL. One of the main features of using the MySQL database is that it is freely available and comes with the standard Workbench which make it easy to implement SQL commands, there is no need to install any other software. This makes it easy to add, retrieve and analyze data.

The renting_db is based on 3 fundamental roles:



1. The host offers their properties for rent.
2. The guest makes reservation and payment.
3. The market as a connection between the host and the guest, where all transactions happen like property offering for rent, reservation, payments, cancellation, commission charges etc.

Following is the list of all tables:

country, city, property_commission, property_type, neighbourhood, host, property, facility,
room_type, room, amenities, guest_commission, guest, property_review, guest_review,
cancelation, reservation, payment_status, voucher, payment

Main challenges:

- A guest can cancel his reservation without any charges. Problem can occur if there no checking mechanism to validate the condition. This issue is fixed by implementing MySQL CHECK constraint.

CHECK (reservation_date <= free_cancelation_date <= checkin_date < checkout_date)

- The order of referenced tables is important. For instance, country table must be created before city table, because countryID is foreign key inside city table otherwise error will occur.
- The data insertion sequence must be in the order of table creation, otherwise an error will occur.

It was an exciting project to work on and I learned a lot from it. I was able to train and develop my SQL skills in an environment that was almost new to me, which I believe I did well.

GitHub link: https://github.com/1010sb/DataMart_SQL