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The paper made by

COMP41090 - SQL Programming Project

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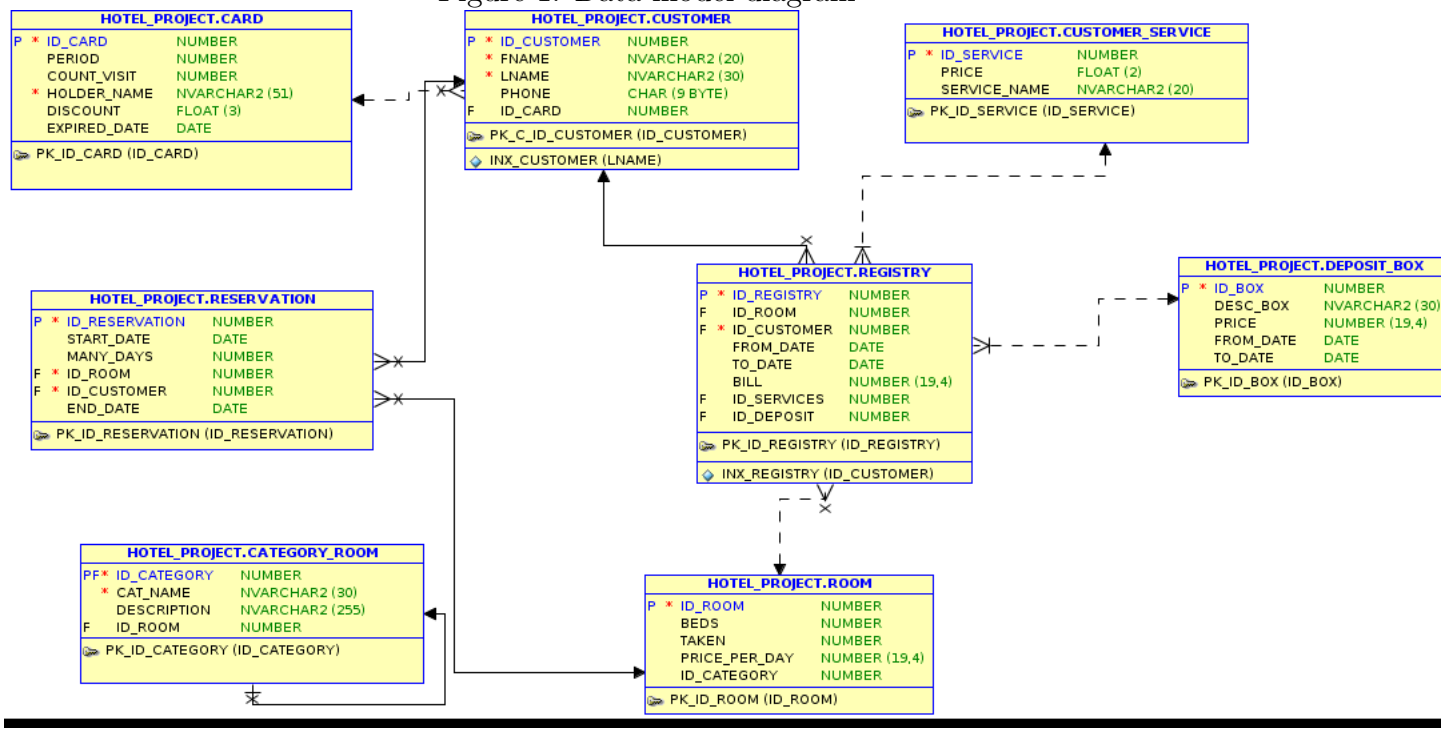
Description: *Springboard*

generated by LaTeX

Initial Paper

Design description

Figure 1: Data model diagram



My project is representing a hotel business. Above, I have shown the relationships of my database on the picture attached 1. The most important relation in my database is many-to-many relationship between customers and rooms. One room can be booked by many customers over time and over time a customers can book many rooms in the hotel. The junction table in my database is the reservation table that consists of two foreign keys. It is a separate entity that has a relationship with two other entities. In general the rest of my relationships are basic one-to-many and zero-to-many. They are typical relationships based on primary keys and foreign keys.

I decided to put indexes on last name of the customer and for the *id_customer* in the registry table, because the procedures and functions are using for faster needed data search.

How its working
The package *DEBUGING_MODE* has one procedure *set_debuging_mode* and one variable *debug_mode*. The variable by default is set to *false*. Via the method we can set this variable to *true* and we will have all debug info during the process.
The next package is *GENERATED_DATA* which has one method to automatically generate expire date for the loyalty card.
The *CARDS_METHODS* package authenticates the loyalty card info to allow for correct allocation of price reduction entitlements.
The *ROOM_METHODS* are aiding the database functionality by inserting, checking and deleting records accordingly.

The triggers generate automatically value for ids its simulate the command *IDENTITY*. Also are used to react to some activities on processing data in entity.
The file *viwes.sql* contains all query required for the project, there is also a brief description of what the queries are about.
There are also other files like *my_packeges.sql* where I stored all packages including the methods, and so on.
To create the database structure we have to keep the all files in the same directory, and run it through the *create_all.sql* file.
And to drop all structure we should invoke *drop_all.sql* file. There is also file called *test.sql* which runs all tests for the methods in the database.
I should have included more functionality for the database so that it would be doing more intuitive processing which will make it more user friendly.