

DAMG6210: Data Management & Database Design

Group 10: Hotel Management System

- Diksha Rawat
- Kodand Ram Movva
- Prathamesh Aravind Wali
- Sri Krishna Karumanchi



<u>Problem</u> <u>Statement</u>

To create a database management system that will facilitate the hotel bookings easy and smooth process. This database application will allow users to look up hotels based on their preferred location depending on availability and book rooms by checking the ratings, feedback review, hotel type and check in and check out date.

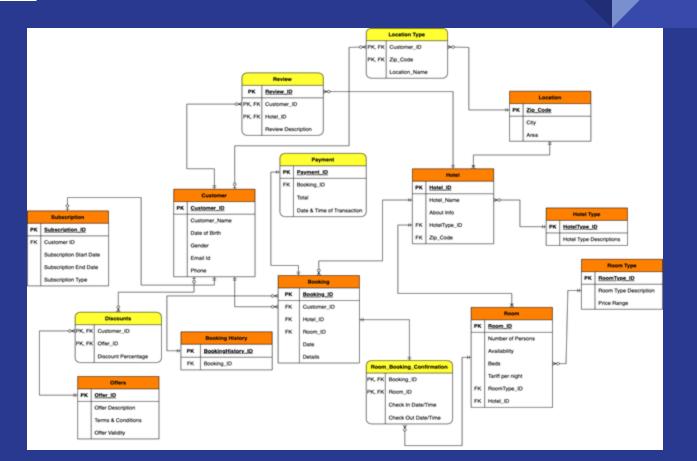


Business Problem Address

Booking hotels have always been a hustle when going on a trip and, it's time consuming task where travelers need to wait in queues or check for the availability at the hotel walk-in. To solve this issue, a hotel booking system is a perfect solution. A hotel booking system will be a database management system that will store traveler details, preferred locations, and booking details. This system will allow travelers to book and confirm their booking at their hotel according to their preferred location, date or travel, and preferred room type.

ERD:







Sample DDL Queries

STORED PROCEDURES:

Create Proc Subscription_reminder @months int

As

begin

select count(*) as NoOfCustomersWhoNeedReminders from (
select c.Customerld,s.SubscriptionId,s.SubscriptionEndDate,c.EmailId,
(select case when DATEDIFF(MONTH,GETDATE(),s.SubscriptionEndDate)>@months
then 'No Need for Reminder' else 'Need Reminder' End) as Reminder
from Subscription s right join Customer con s.Customerld=c.Customerld where
(select case when DATEDIFF(MONTH,GETDATE(),s.SubscriptionEndDate)>@months
then 'No Need for Reminder' else 'Need Reminder' End) = 'Need Reminder') s
select c.Customerld,s.SubscriptionId,s.SubscriptionEndDate,c.EmailId,
(select case when DATEDIFF(MONTH,GETDATE(),s.SubscriptionEndDate)>6
then 'No Need for Reminder' else 'Need Reminder' End) as Reminder
from Subscription s right join Customer con s.Customerld=c.Customerld order by
s.SubscriptionEndDate
End

TRIGGERS:

CREATE TRIGGER EncryptionTrigger

ON Customer

AFTER INSERT

AS

BEGIN

OPEN SYMMETRIC KEY EmailEncryptor DECRYPTION BY CERTIFICATE

Certificate_EmailEncrypt;

UPDATE Customer SET ENCRYPTED Email = ENCRYPTBYKEY(KEY GUID('EmailEncryptor'),

EmailId) FROM Customer;

CLOSE SYMMETRIC KEY EmailEncryptor;

END

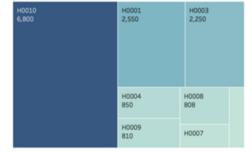
Visualization:



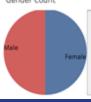




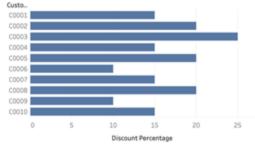
Hotel with Their Revenue



Gender Count



Discount for each customer



Bookings graph per Quarter





Demo

https://github.com/prathameshwalinu/DMDD 6210 Group10



Thank you!