ASSIGNMENT

NAME: K. Mahesh

REG.NO: 192372293

course : Csa 0593

y Hotel Reservation and Management database Develop Q: a database to handle hotel reservation, guest, rooms, reservations, billing.

=> Hotel Reservation and Management Database Assignment:

o Develop a SQL database that will handle the following requirements in a hotel reservation and management system. This System should be designed to manage guest details, rooms reservations, billing, amenities and reporting.

Part I: Database Design:
1) Design Database Schema:

· Guests: Store information on each guest, including their ID, name, contact, information, and Dry loyality or member Ship details.

- Rooms: store information on each room, including Roomed, type price per night, and Status.
 - · Reservation: store information about information reservations, including reservation ID, quest ID, room ID, check in data, check out data,
 - · Billing: Store billing information including bill ID, reservation 10, amount, payment status and payment method.

* constraints:

- · Enforce referential integrity through primary and toregin keys
- 2) Create ERD Diagram:
- e create an entity-relationship diagram to visually outline the database tables and relationships.

Parta: Stored procedures:

- 1. Room Availability check procedure :
- o create a stored procedure cheek Room avalibility that accepts room type and dates as parameters a Deturns the availability status based as
- o Returns the availability Status based on given dates.

- 2) Make resenation procedure:
- o Create a stored procedure. Makeseservation that accepts guest ID, room ID, and reservation dates.
- o check room avalibility updates the room status and inserts the resemblished details into the Reservation table if available.
- 3) Process Checkout procedure:
- · Create a Stored procedure process checkout that accepts reservation ID as a paramety.
- · updates the reservation status, generales a bill and tree up the room.

Part 3: Triggers !-

- 1) Check in Trigger:
- o implement a trigger Before cheek in on the reservations table to automatically expecte room status.
- as Cheek-out trigges:
- o implement a trigger Affer checkout on the reservation table to automatically update room status.

Partu: Reporting Queries!

- 1) Room occupancy Report:
- o Generate a report of all rooms, showing which room au currently occupied and which ou available.
- 2) popular Amenities usage Report:
- O Generate a report listing the most each amenities has been used.
- 3) Revince Generation by Room type:
- e Generate a report Showing the total revence generated by each room type. (