PRACTICE TEST - No.1

Module: SQL Server (Duration: 60 minutes)

Create a Database structure for Simple Hotel Booking Management with following requirements:

Preparation step:

- Open Microsoft SQL Server Management Studio, then click New Query on ToolsBar
- Save to local Disk with the name: ClassName-YourName.sql
- Take the test with **100% T-SQL syntax**, then take the .sql file above to submit.

Part A: Build Structure Database

1. Create a new database named: HotelManagement

[1 mark]

2. Customers table contains information about customers: FirstName, LastName, Mobile, Email

[1 mark]

3. Rooms table contains information about hotel rooms: RoomNumber, RoomType, Price, IsAvailable

[1 marks]

4. **Bookings** table contains information about bookings, linked to Customers and Rooms via foreign keys: BookingId, CustomerId, RoomNumber, CheckInDate, CheckOutDate [2 marks]

Part B: Insert information into tables

1. Customer Table: [2 mark]

CustomerID	FirstName	LastName	Mobile	Email
1	Tony	Ноо	0988777111	tonyhoo@example.com
2	Songkon	Nee	0988777112	songkonnee@example.com

2. Rooms Table: [2 mark]

RoomNumber	RoomType	Price	IsAvailable
1001	Single	1200	1
1002	Double	1600	1
1003	Single	1200	0

3. Bookings Table: [2 mark]

Bookingld	CustomerId	RoomNumber	CheckInDate	CheckOutDate
1	1	1001	2024-01-01	2024-01-05
2	2	1002	2024-01-02	2024-01-10

Part C: Accessing Data

1.	Create a View named `v_roomsAvailable `	to statistics on the list of available room	
			[1 mark]

- 2. Create a **View** named `**v_roomsWithType**` to statistics list the number of rooms by room type [2 mark]
- 3. Create a **Check Constraints** the value entered into the Rooms table with the **Price** column > 0 and **IsAvailable** column only accepting values of 0 or 1 **[1 mark]**
- 4. Create a **Stored Procedures** to Update the available status for booking with RoomNumber **1003** [2 mark]
- Create a Table-valued Functions named udtf_BookingByDate to statistics list of reservation details including: room information, customer information from 2024-01-01 to 2024-01-10 [3 mark]

 THE END	