ASSIGNMENT 1:

1. **Creating Database**

   ➔ CREATE DATABASE Swastika_DB

2. **Tables Created**
   - User
   - Hotel
   - Branch
   - Employee
   - Customer
   - RoomType
   - Room
   - Booking
   - Service
   - Transaction
   - Invoice

   i. Creating table User

   CREATE TABLE dbo.[USER] (

   UserId INT IDENTITY(1,1) PRIMARY KEY,

   UserName VARCHAR(50) not null,

   Password VARCHAR(50) not null,

   InsertDate SMALLDATETIME default getdate()

   );

   ii. Creating table Hotel

   create table dbo.[Hotel]

   (

   HotelId int identity(1,1) primary key,

HotelName varchar(50) not null,

UserId int not null,

InsertDate smalldatetime default getdate(),

Foreign key(UserId) References [User](UserId)

);

iii. Creating table Branch

create table dbo.[Branch]

(BranchId int identity(1,1) primary key,

HotelId int not null,

UserId int not null,

BranchName varchar(50) not null,

BranchLocation varchar(50) not null,

Contact varchar(50) not null unique,

InsertDate smalldatetime default getdate(),

foreign key(UserId) References [USER](UserId),

foreign key(HotelId) References Hotel(HotelId)

);

iv. Creating table Employee

create table dbo.[Employee](

EmployeeId int identity(1,1) primary key,

BranchId int not null,

foreign key (BranchId) references Branch(BranchId),

```sql
UserId int not null,

foreign key (UserId) references [User] (UserId),

FirstName varchar(50) not null,

LastName varchar(50) not null,

Name As FirstName +' '+ LastName,

EmployeePost varchar(30) not null,

EmployeeAddress varchar(50) not null,

EmployeeContact varchar(10) not null unique,

EmployeeSalary money not null,

InsertDate smalldatetime default getdate()

);
```

v. Creating table Customer

```sql
create table dbo.[Customer](

CustomerId int identity(1,1) primary key,

UserId int not null,

foreign key(UserId) references [User](UserId),

FirstName varchar(50) not null,

LastName varchar(50) not null,

name as FirstName +' '+LastName,

PhoneNumber varchar(10) not null unique,

CustomerAddress varchar(50) not null,

Email varchar(20) not null,

InsertDate smalldatetime default getdate()

);
```

vi. Creating table RoomType

```sql
create table dbo.[RoomType](
```

```sql
RoomTypeId int identity(1,1) primary key,

UserId int not null,

RoomTypeName varchar(50) not null,

RoomPrice money not null,

foreign key (UserId) references [User] (UserId),

InsertDate smalldatetime default getdate()

);
```

vii. Creating table Room

```sql
create table dbo.[Room](

RoomId int identity(1,1) primary key,

UserId int not null,

RoomNumber int not null,

RoomTypeId int not null,

foreign key (RoomTypeId) references [RoomType](RoomTypeId),

RoomDescription varchar(50) not null,

RoomAvailability varchar(20) check (RoomAvailability in ('Available', 'Not Available')) default 'Available',

foreign key (UserId) references [User](UserId),

InsertDate smalldatetime default getdate()

);
```

viii. Creating table Booking

```sql
create table dbo.[Booking](

BookingId int identity(1,1) primary key,

UserId int not null,
```

BranchId int not null,

CustomerId int not null,

RoomId int not null,

foreign key (BranchId) references Branch(BranchId),

foreign key (CustomerId) references Customer (CustomerId),

foreign key (RoomId) references Room(RoomId),

ArrivalDate smalldatetime not null,

DepartureDate smalldatetime not null,

check (ArrivalDate<=DepartureDate),

foreign key (UserId) references [User] (UserId),

InsertDate smalldatetime default getdate()

);

ix. Creating table Service

```
create table dbo.[Service](

ServiceId int identity(1,1) primary key,

ServiceName varchar(50) not null,

ServicePrice money not null,

UserId int not null,

foreign key (UserId) references [User](UserId),

InsertDate smalldatetime default getdate()

);
```

x. Creating table Transaction

```
create table dbo.[Transaction](

TransactionId int identity(1,1) primary key,

UserId int not null,
```

```sql
CustomerId int not null,

foreign key (CustomerId) references Customer(CustomerId),

BookingId int not null,

foreign key (BookingId) references Booking(BookingId),

ServiceId int not null,

foreign key (ServiceId) references [Service](ServiceId),

TransactionDate smalldatetime not null,

foreign key (UserId) references [User](UserId),

InsertDate smalldatetime default getdate(),

Total money
);
```

xi. Creating table Invoice

```sql
create table dbo.[Invoice](

InvoiceId int identity(1,1) primary key,

UserId int not null,

CustomerId int not null,

foreign key (CustomerId) references Customer(CustomerId),

foreign key (UserId) references [User](UserId),

Amount money default 0,

Discount decimal(10,2),

InsertDate smalldatetime default getdate()
);
```