DDL Script

```
create schema Hotel_Management;
set search_path to Hotel_Management;

Create table Hotel(
        Hotel_ID varchar(12) primary key,
        Hotel_Name varchar(30),
        City varchar(20),
        State varchar(12),
        Pincode varchar(9),
        Contact_No varchar(15),
        Stars smallint not null,
        Service varchar(100)
);

Create table Room_Category(
        Hotel_ID varchar(12),
        Category_ID varchar(5),
        Name varchar(20),
        Facilities varchar(100) ARRAY[3],
        Primary key(Hotel_ID,Category_ID),
        Foreign key (Hotel_ID) references Hotel(Hotel_ID) on delete cascade on update cascade
);

Create table Rooms(
        Category_ID varchar(5),
        Room_No integer,
        Hotel_ID varchar(12),
        Floor_No integer not null,
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        Primary key(Room_No,Hotel_ID),
        Foreign key (Hotel_ID) references Hotel(Hotel_ID) on delete cascade on update cascade,
        Foreign key (Category_ID,Hotel_ID) references Room_Category(Category_ID,Hotel_ID) on delete cascade on update cascade
);

create table Today_Price(
        Hotel_ID varchar(12),
        Category_ID varchar(5),
        Price decimal(10,2),
        Available_Rooms integer,
        Date date,
        Primary key(Date,Category_Id,Hotel_ID),
        Foreign key(Hotel_ID, Category_ID) references Room_Category(Hotel_ID,Category_ID)  on delete cascade on update cascade
);

create table Customer(
        Cust_id varchar(12) primary key,
        "Name" varchar(30),
        DOB date,
        Contact_No varchar(15),
        Email varchar(30),
        Street_Name varchar(20),
        City varchar(20),
        "State" varchar(20),
        Pincode varchar(9)
);

Create table Reservation_On(
        "Date" date,
        Hotel_ID varchar(12),
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	Category_ID varchar(5),
	Cust_ID varchar(12),
	Reservation_ID varchar(10) not null,
	Start_Date date,
	End_date date,
	Primary key("Date",Category_ID,Hotel_ID,Cust_ID),
	Foreign key("Date",Category_ID,Hotel_ID) references
Today_Price(Date,Category_ID,Hotel_ID)  on delete cascade on update cascade,
	Foreign key (Cust_id) references Customer(Cust_id) on delete cascade on update cascade
);

Create table check_in_out(
	Hotel_ID varchar(12),
	Cust_ID varchar(12),
	Room_No integer,
	Check_In_Date date,
	Check_Out_Date date,
	Primary key(Cust_id,Room_No,Hotel_ID),
	Foreign key(Room_No,Hotel_ID) references Rooms(Room_No,Hotel_ID)  on delete cascade
on update cascade,
	Foreign key (Cust_id) references Customer(Cust_id) on delete cascade on update cascade
);

Create table Department(
	Hotel_ID varchar(12),
	Dept_ID varchar(5),
	Name varchar(50),
	Manager_eno varchar(5),
	Primary key(Hotel_ID,Dept_ID),
	Foreign key (Hotel_ID) references Hotel(Hotel_ID) on delete cascade on update cascade
);
```

-- Here two tables referencing to each other that's why first we had inserted data then referenced key.

-- alter table department add foreign key (manager_eno,Hotel_ID) references employee(emp_no,Hotel_ID);

```
Create table Employee(
        Emp_No varchar(5),
        Gender varchar(10),
        "Name" varchar(20),
        Hotel_ID varchar(12),
        DOB date,
        Salary decimal(10,2),
        Super_eno varchar(5),
        Dept_ID varchar(5),
        Primary key(Hotel_ID,Emp_NO),
        Foreign key(Dept_ID,Hotel_ID) references Department(Dept_ID,Hotel_ID) on delete cascade on update cascade,
        Foreign key(Super_eno,Hotel_ID) references Employee(Emp_No,Hotel_ID) on delete cascade on update cascade,
        Foreign key(Hotel_ID) references Hotel(Hotel_ID) on delete cascade on update cascade
);
```

```
Create table Food(
        Food_No integer,
        "Name" Varchar(20),
        Hotel_ID varchar(12),
        Category varchar(30),
        Rate decimal(10,2),
        Primary key (Food_No,Hotel_ID),
        Foreign key(Hotel_ID) references Hotel(Hotel_ID) on delete cascade on update cascade
);
```

```
Create table Ordered_By(
        Food_NO integer,
        Cust_ID varchar(12),
        Hotel_ID varchar(12),
        Ordered_date date,
        Review varchar(100),
        primary key(Food_NO,Cust_ID,Hotel_ID),
        Foreign key (Cust_ID) references Customer(Cust_ID) on delete cascade on update cascade,
        Foreign key(Food_No,Hotel_ID) references Food(Food_No,Hotel_ID)
);

Create table Bills(
        Bill_ID varchar(10) primary key,
        "Name" varchar(20),
        Type varchar(20),
        Amount decimal(10,2),
        Date date
);

Create table Invoice(
        Invoice_No Varchar(10) Primary key,
        Cust_id Varchar(12),
        Invoice_Description Varchar(30),
        "Date" date,
        Amount_Payable decimal(10,2),
        Status Varchar(10),
        Payment_Method Varchar(20),
        Bill_ID Varchar(10),
        Foreign key (Cust_id) references Customer(Cust_id) on delete cascade on update cascade,
        Foreign key (Bill_ID) references Bills(Bill_ID) on delete cascade on update cascade);
```