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create database practical_5;
use practical_5;
create table Hotel (HotelNo int primary key, Name varchar(50), City varchar(50));
insert into Hotel values(1,"taj","mumbai");
insert into Hotel values(2,"foodland","pune");
insert into Hotel values(3,"jatra","nashik");
insert into Hotel values(4,"ganesh","pimpri");
insert into Hotel values(5,"Grosvenor","london");
insert into Hotel values(6,"Savory","london");
select * from Hotel;
create table Room (RoomNo int, HotelNo int, Type varchar(50), Price int ,primary
key(RoomNo,HotelNo),foreign key
(HotelNo) references Hotel(HotelNo));
insert into Room values(1,1,"single room",25);
insert into Room values(2,1,"double room",35);
insert into Room values(3,1,"family room",45);
insert into Room values(1,2,"single room",15);
insert into Room values(2,2,"double room",27);
insert into Room values(3,2,"family room",35);
insert into Room values(1,3,"single room",18);
insert into Room values(2,3,"double room",22);
insert into Room values(3,3,"family room",30);
insert into Room values(1,4,"single room",20);
insert into Room values(2,4,"double room",30);
insert into Room values(3,4,"family room",40);
insert into Room values(1,5,"single room",30);
insert into Room values(2,5,"double room",38);
insert into Room values(3,5,"family room",45);
insert into Room values(1,6,"single room",20);
insert into Room values(2,6,"double room",27);
insert into Room values(3,6,"family room",36);
select * from Room;
create table Guest(GuestNo int primary key,Guestname varchar(100),Guestaddress
varchar(255));
insert into Guest values(1,"vedant","sant tukaram nagar, pimpri");
insert into Guest values(2,"amey","wakad,pune");
insert into Guest values(3,"kedar","sion,mumbai");
insert into Guest values(4,"soham","andheri,mumbai");
insert into Guest values(5,"divyesh","kasarwadi,pune");
insert into Guest values(6,"divyesh","kasarwadi,pune");
insert into Guest values(7,"nishant","college road,nashik");
insert into Guest values(8,"nishant","ashok stambh,nashik");
insert into Guest values(9,"vishal","oxford street,london");
insert into Guest values(10,"aniket","park lane,london");
insert into Guest values(11,"paras","whitehall,london");
insert into Guest values(12,"akalank","old street,london");
select * from Guest;
create table Booking(HotelNo int, GuestNo int, Datefrom date, Dateto date, RoomNo
int, primary key(HotelNo, GuestNo, Datefrom), foreign key (HotelNo) references
Hotel(HotelNo), foreign key (RoomNo,HotelNo) references Room(RoomNo,HotelNo),
foreign key (GuestNo) references Guest(GuestNo));
insert into Booking values(1,1,'2024-08-01','2024-08-04',1);
insert into Booking values(1,2,'2024-01-08','2024-01-12',2);
insert into Booking values(2,3,'2024-04-09','2024-04-15',1);
insert into Booking values(2,4,'2024-11-10','2024-11-14',2);
insert into Booking values(3,5,'2024-08-01','2024-08-07',1);
insert into Booking values(3,7,'2024-02-05','2024-02-10',3);
insert into Booking values(4,6,'2024-02-12','2024-02-15',1);
insert into Booking values(4,8,'2024-02-14','2024-02-15',3);

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insert into Booking values(5,9,'2024-08-10','2024-08-12',2);
insert into Booking values(5,10,'2024-11-11','2024-11-22',3);
insert into Booking values(6,11,'2024-11-11','2024-11-24',2);
insert into Booking values(6,12,'2024-08-22','2024-08-28',3);
select * from Booking;
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1) select * from Hotel;

2) select count(*) as NumberofHotels from Hotel;

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3) select r.Price,r.Type
from Room r
join Hotel h
on r.HotelNo = h.HotelNo
where h.Name = "Grosvenor";
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4) select h.Name as HotelName, count(r.RoomNo) as NumberOfRooms
from Hotel h
join Room r
on h.HotelNo = r.HotelNo
group by h.HotelNo, h.Name;
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5) select g.GuestNo, g.Guestname, g.Guestaddress
from Guest g
join Booking b
on g.GuestNo = b.GuestNo
join Hotel h
on b.HotelNo = h.HotelNo
where h.Name = "Grosvenor";
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6) select * from Room
where Type in("double room","family room") and Price<40.00
order by Price asc;
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7) select count(distinct GuestNo) as NumberOfGuestsInAugust
from Booking
where month(Datefrom) = 8 or month(Dateto) = 8;
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8)select sum(r.Price) as TotalIncomeToday
from Booking b
join Room r
on b.RoomNo = r.RoomNo and b.HotelNo = r.HotelNo
join Hotel h
on b.HotelNo = h.HotelNo
where h.Name = "Grosvenor"
and curdate() between b.Datefrom and b.Dateto;
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9) select h.Name as HotelNo, r.Type as RoomType, count(*) as BookingCount
from Booking b
join Room r
on b.RoomNo = r.RoomNo and b.HotelNo = r.HotelNo
join Hotel h
on b.HotelNo = h.HotelNo
where h.City = "london"
group by h.HotelNo, r.Type
order by h.HotelNo, BookingCount desc;
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10) update Room  
set Price = Price * 1.05;
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