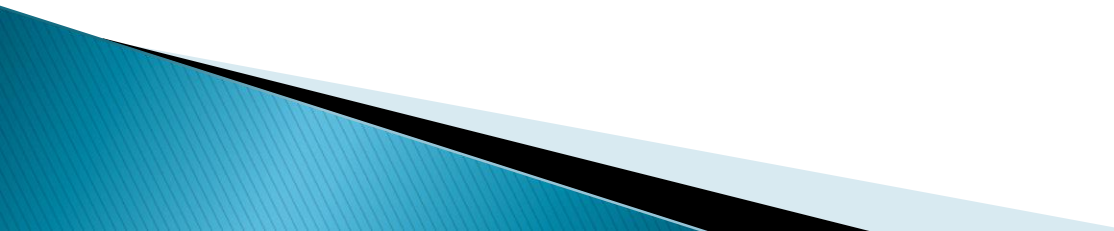


# Joins, Chapter 6

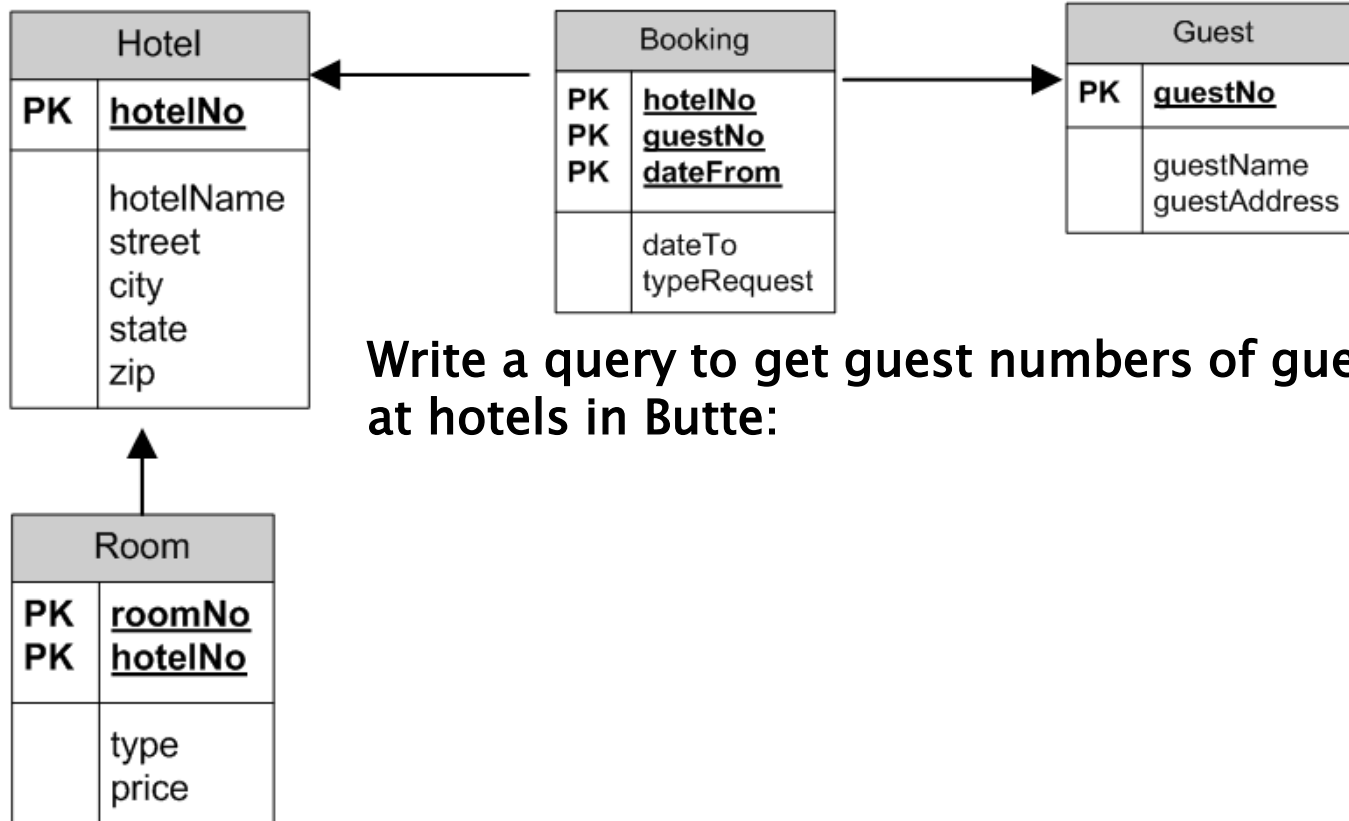


# SQL – Syntax

```
SELECT [DISTINCT | ALL]
        {* | colExpression [AS newName]] [,...]}
FROM TableName [alias][,...]
[WHERE condition]
[GROUP BY columnList] [HAVING condition]
[ORDER BY columnList];
```

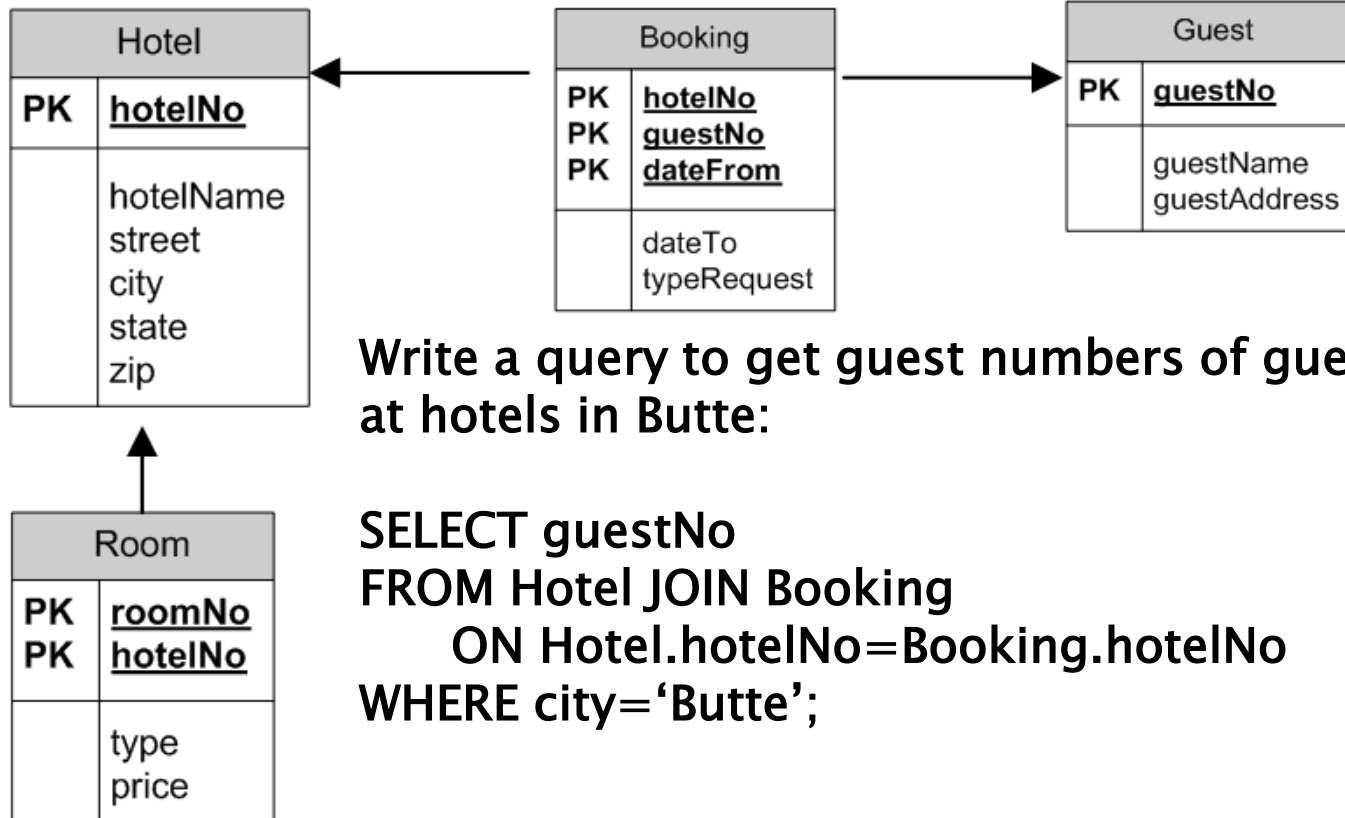


# Query on Multiple Tables



Write a query to get guest numbers of guests who stay at hotels in Butte:

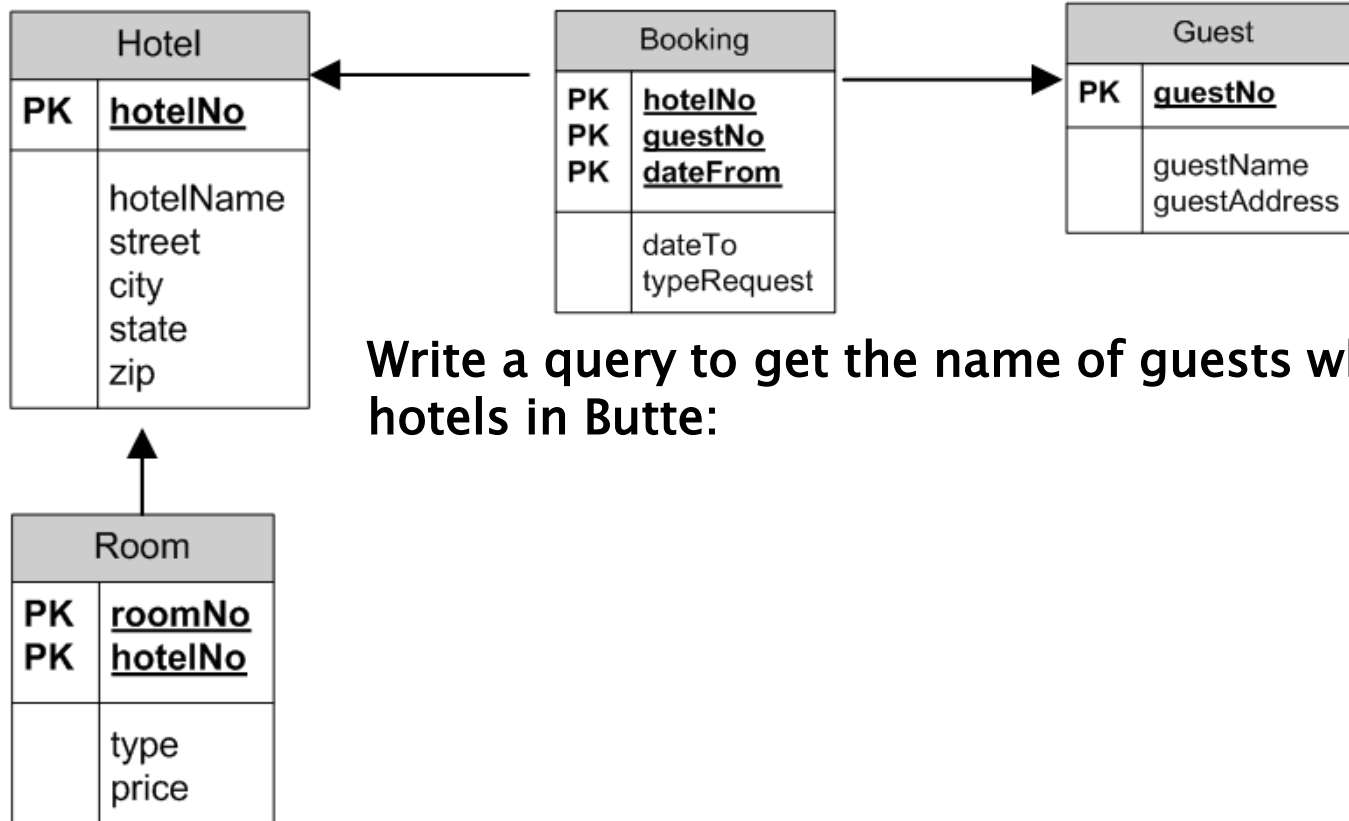
# Query on Multiple Tables using JOIN



Write a query to get guest numbers of guests who stay at hotels in Butte:

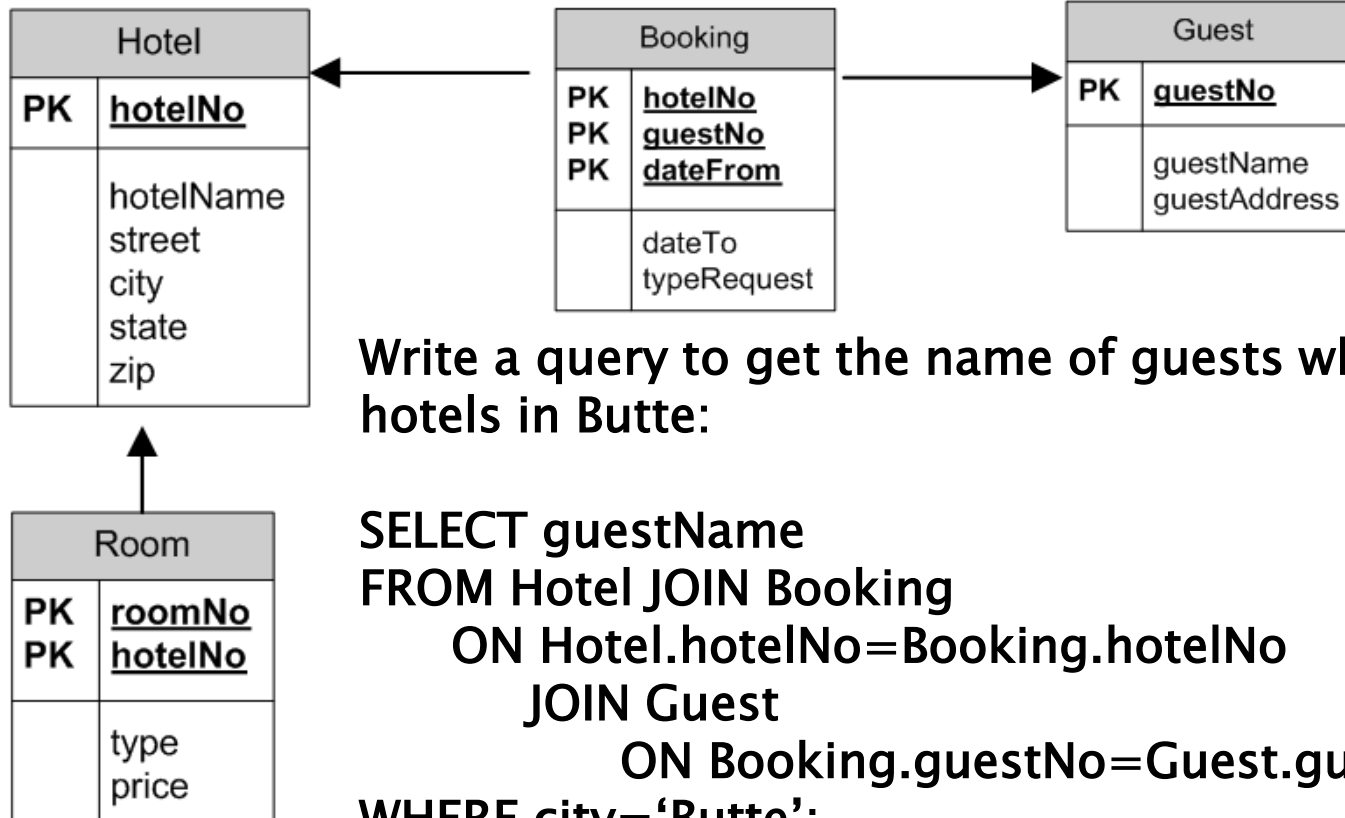
```
SELECT guestNo
FROM Hotel JOIN Booking
      ON Hotel.hotelNo=Booking.hotelNo
WHERE city='Butte';
```

# Query on Multiple Tables



Write a query to get the name of guests who stay at hotels in Butte:

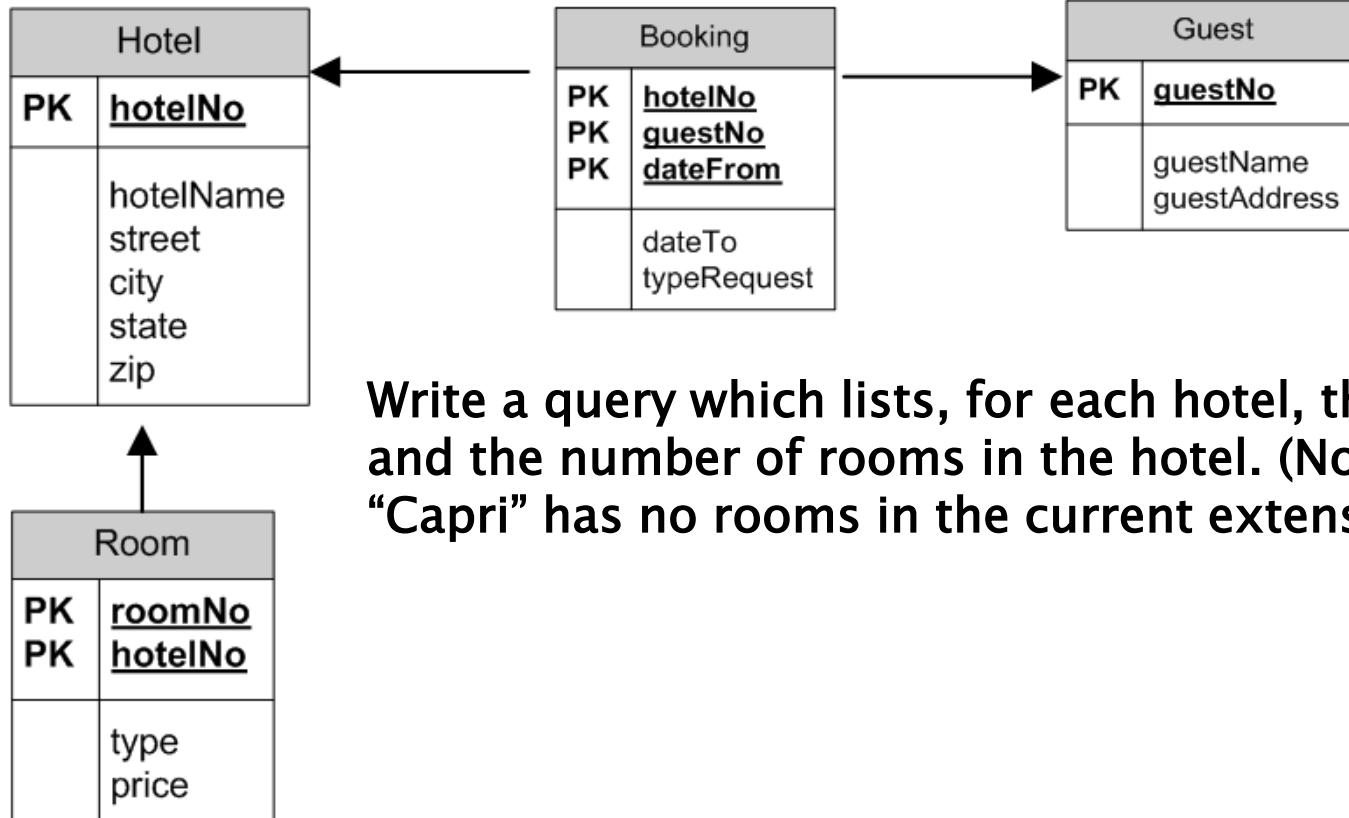
# Query on Multiple Tables using JOIN



Write a query to get the name of guests who stay at hotels in Butte:

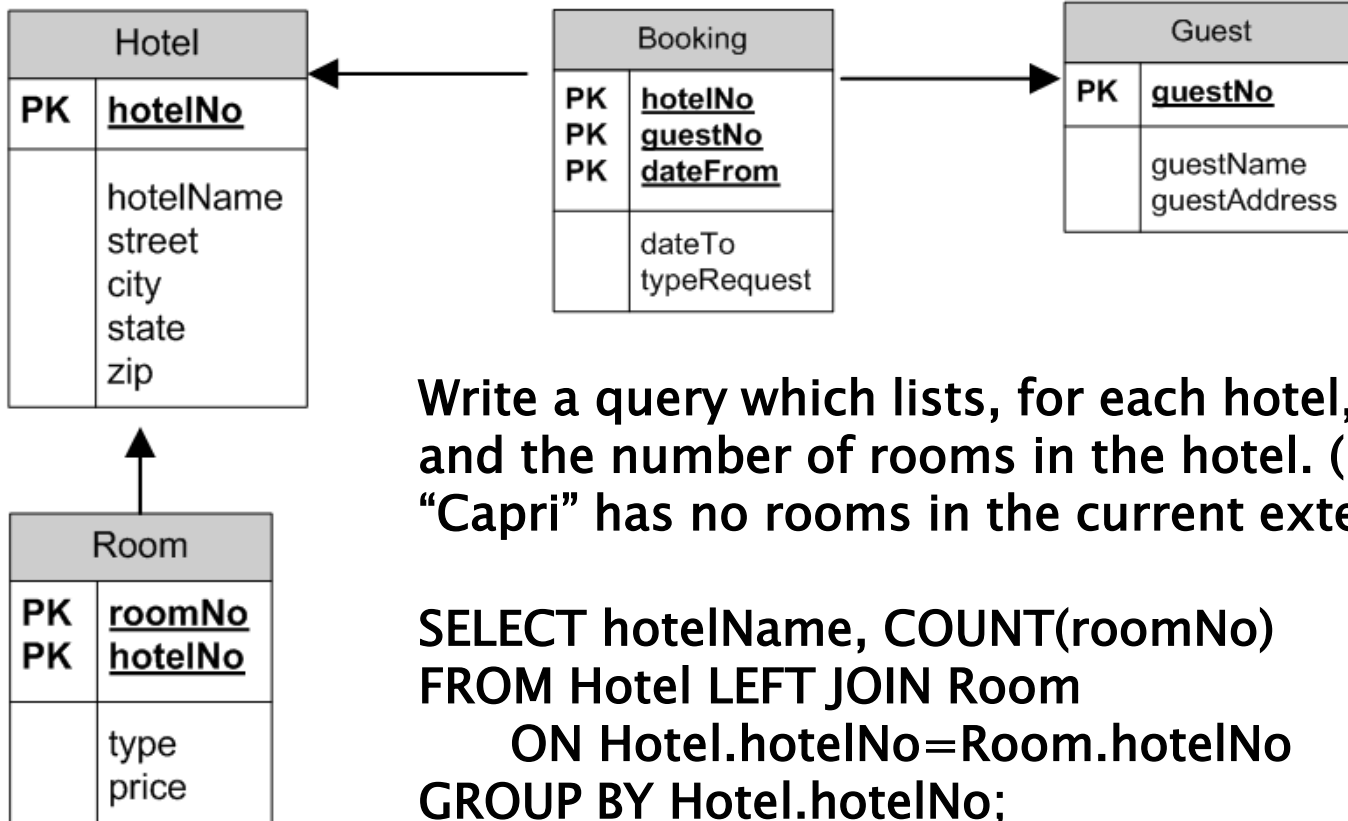
```
SELECT guestName
FROM Hotel JOIN Booking
      ON Hotel.hotelNo=Booking.hotelNo
      JOIN Guest
      ON Booking.guestNo=Guest.guestNo
WHERE city='Butte';
```

# Query Getting All



Write a query which lists, for each hotel, the hotel name and the number of rooms in the hotel. (Note that the “Capri” has no rooms in the current extension.)

# Query Getting All use Outer Join



Write a query which lists, for each hotel, the hotel name and the number of rooms in the hotel. (Note that the “Capri” has no rooms in the current extension.)

```
SELECT hotelName, COUNT(roomNo)
FROM Hotel LEFT JOIN Room
ON Hotel.hotelNo=Room.hotelNo
GROUP BY Hotel.hotelNo;
```