SQL: Data Manipulation, Chapter 6
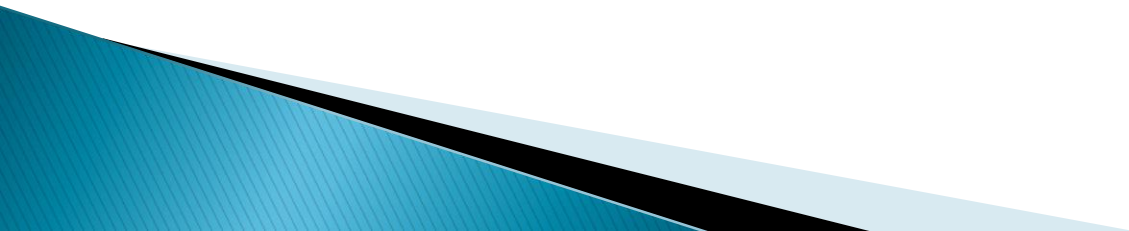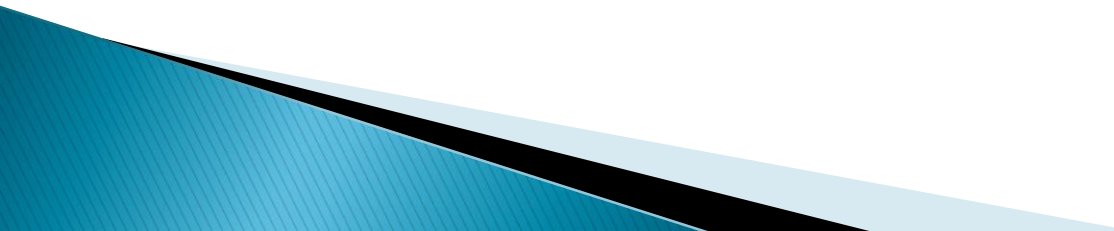
SQL Standardization

- SQL was first standardized in 1986 and has been updated numerous times since then. Go to http://en.wikipedia.org/wiki/SQL and see Section 5 "Standardization" under "contents".

- MySQL aims "to support the full ANSI/ISO SQL standard, but without making concessions to speed and quality of the code."

MySQL site: http://dev.mysql.com/doc/refman/5.0/en/standards.html
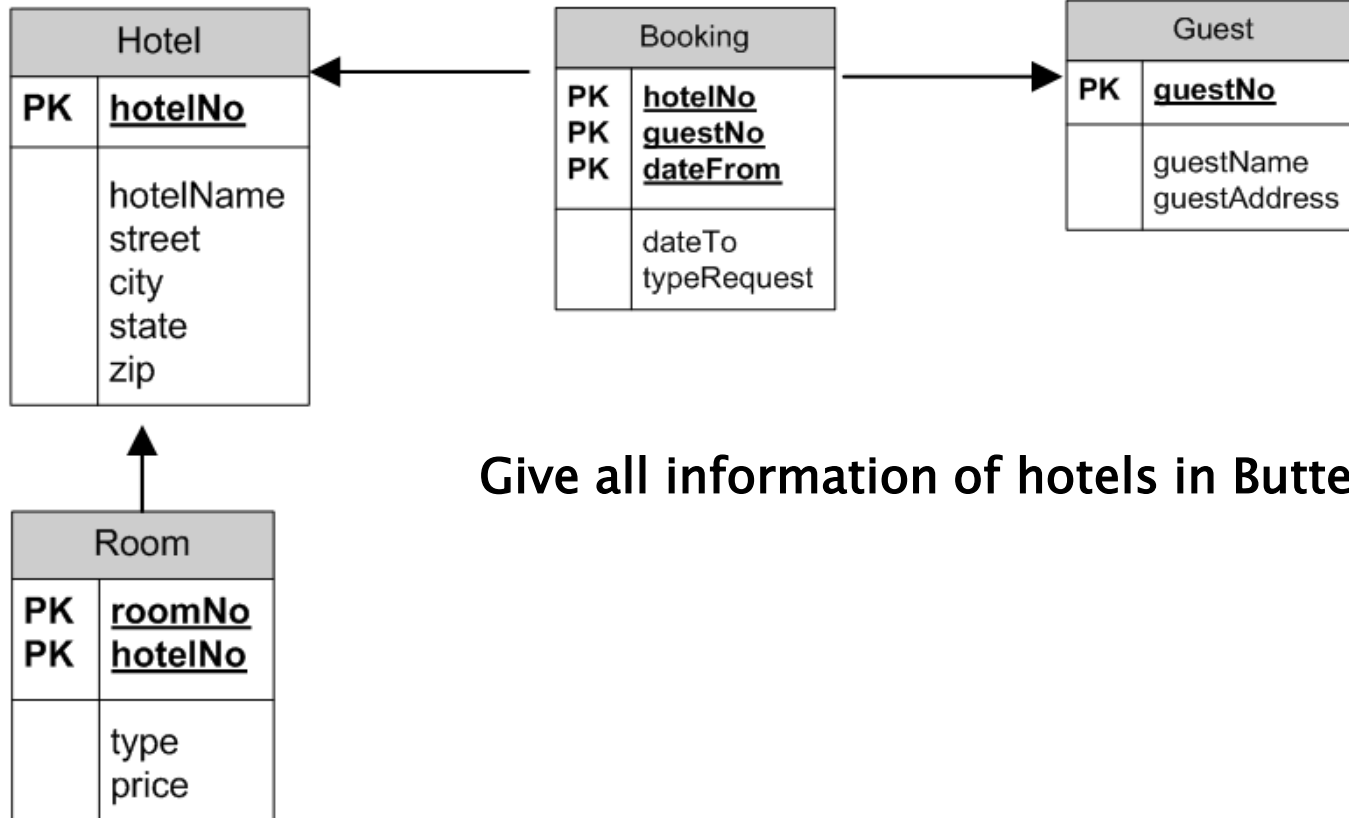
SQL - Syntax

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

Query 1

Hotel	
PK	**hotelNo**
	hotelName street city state zip

Booking	
PK **PK** **PK**	**hotelNo** **guestNo** **dateFrom**
	dateTo typeRequest

Guest	
PK	**guestNo**
	guestName guestAddress

Room	
PK **PK**	**roomNo** **hotelNo**
	type price

Give all information of hotels in Butte:

Query 1 – Answer

Hotel

PK	hotelNo
	hotelName
	street
	city
	state
	zip

Booking

PK	hotelNo
PK	guestNo
PK	dateFrom
	dateTo
	typeRequest

Guest

PK	guestNo
	guestName
	guestAddress

Room

PK	roomNo
PK	hotelNo
	type
	price
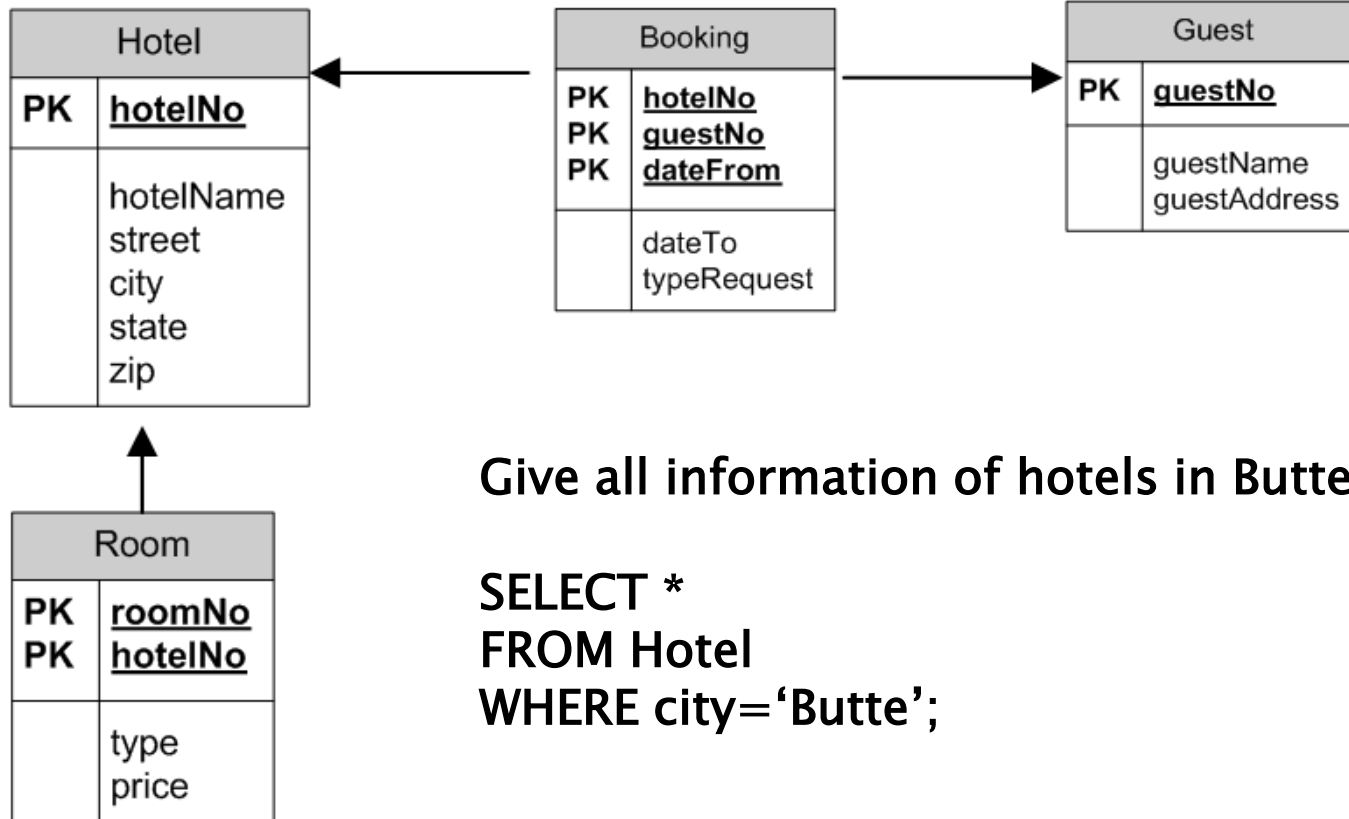
Give all information of hotels in Butte:

SELECT *
FROM Hotel
WHERE city='Butte';

Query 2

Hotel

PK	hotelNo
	hotelName
	street
	city
	state
	zip

Booking

PK	hotelNo
PK	guestNo
PK	dateFrom
	dateTo
	typeRequest

Guest

PK	guestNo
	guestName
	guestAddress

Room

PK	roomNo
PK	hotelNo
	type
	price
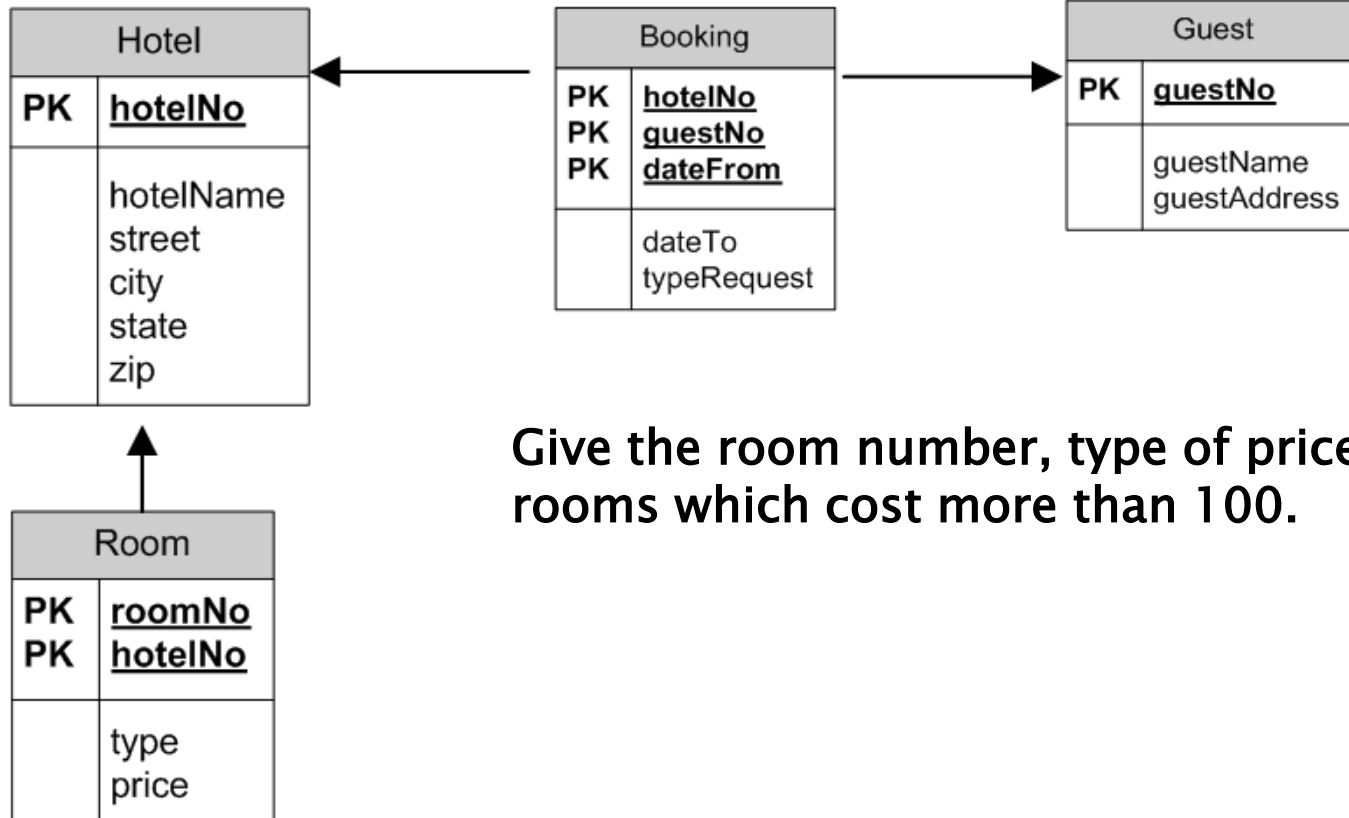
Give the room number, type of price of all rooms which cost more than 100.

Query 2 - Answer

Hotel	
PK	**hotelNo**
	hotelName street city state zip

Booking	
PK **PK** **PK**	**hotelNo** **guestNo** **dateFrom**
	dateTo typeRequest

Guest	
PK	**guestNo**
	guestName guestAddress

Room	
PK **PK**	**roomNo** **hotelNo**
	type price
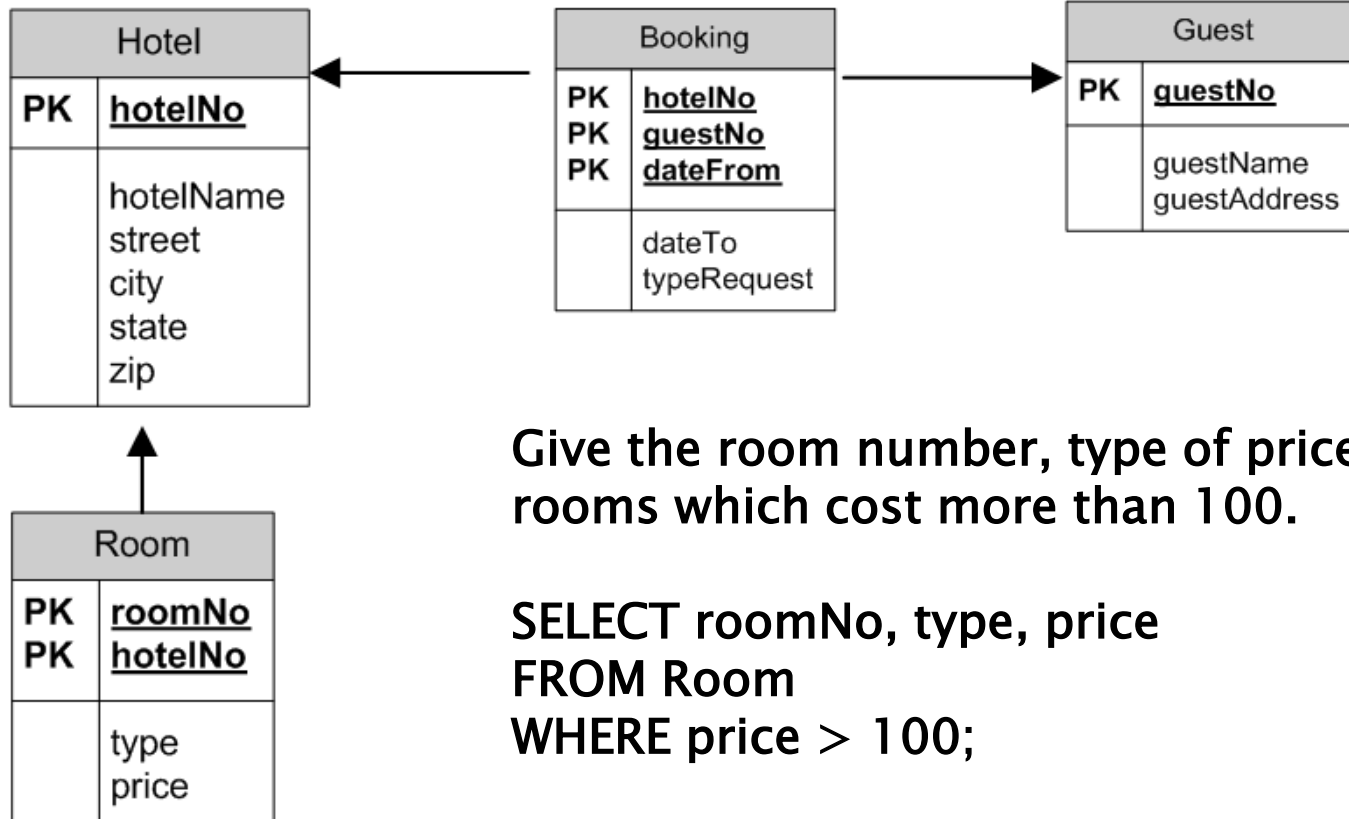
Give the room number, type of price of all rooms which cost more than 100.

SELECT roomNo, type, price
FROM Room
WHERE price > 100;

SQL tutorial

w3schools.com:http://www.w3schools.com/sql

- ◦ Sidebar
- ◦ Start learning now
- ◦ Quiz
- ◦ Quick reference
- ◦ Data types
- ◦ Try it yourself