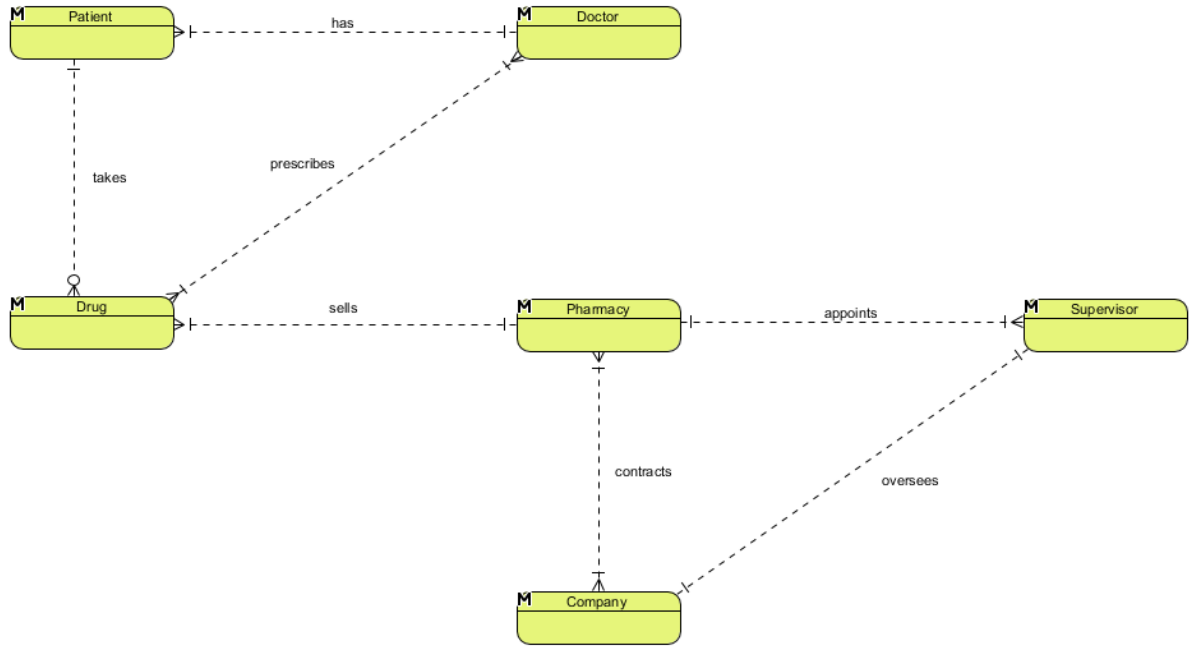
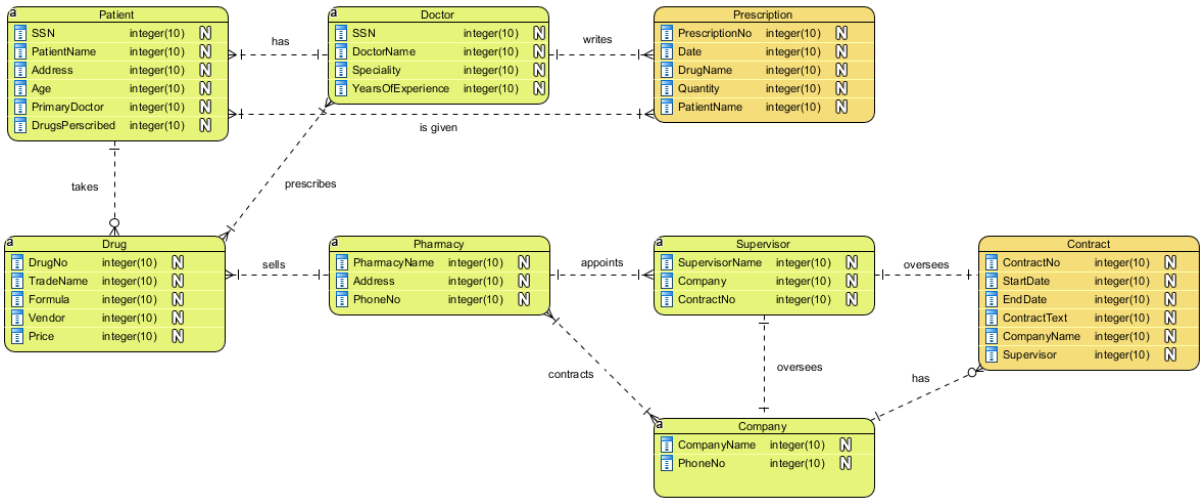
Q1.





Q2.

Primary key *Foreign key*

Customer (**customerID**, lastName, firstName, address, city, state, zip, phone)

Salesperson (**salespersonID**, salespersonFirstName, salespersonLastName, salespersonCode)

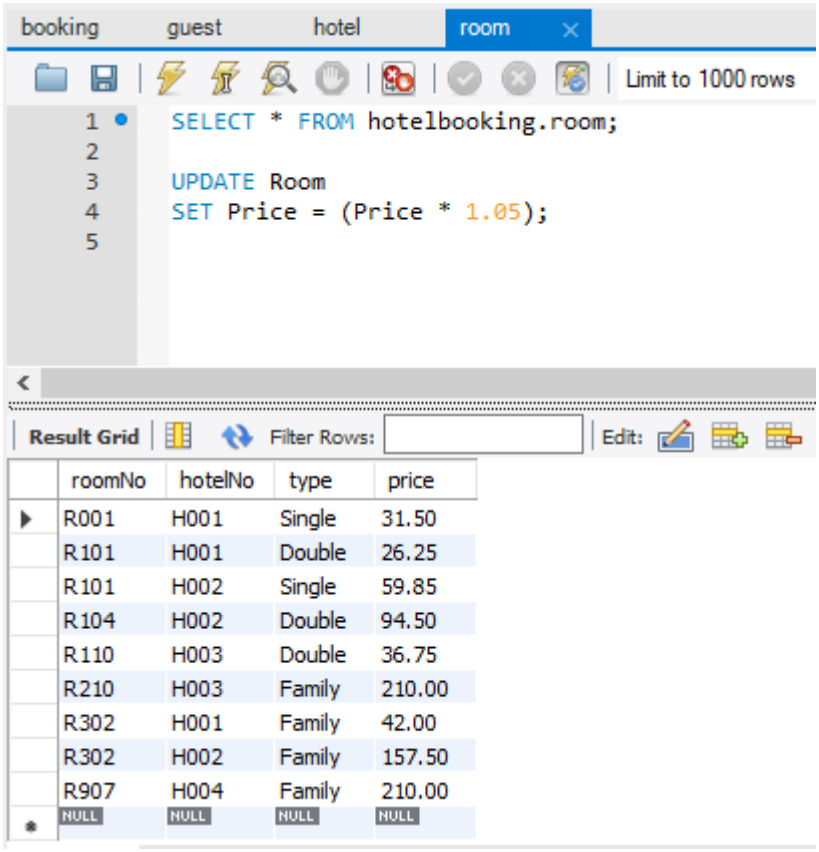
SalesOrder (**salesorderNumber**, date, subtotal, tax, total, *customerID*, *salespersonID*)

Item (**itemNumber**, unitPrice, description)

OrderLineItem (**lineNumber**, ***salesorderNumber***, quantity, unitPrice, extendedPrice, *itemNumber*)

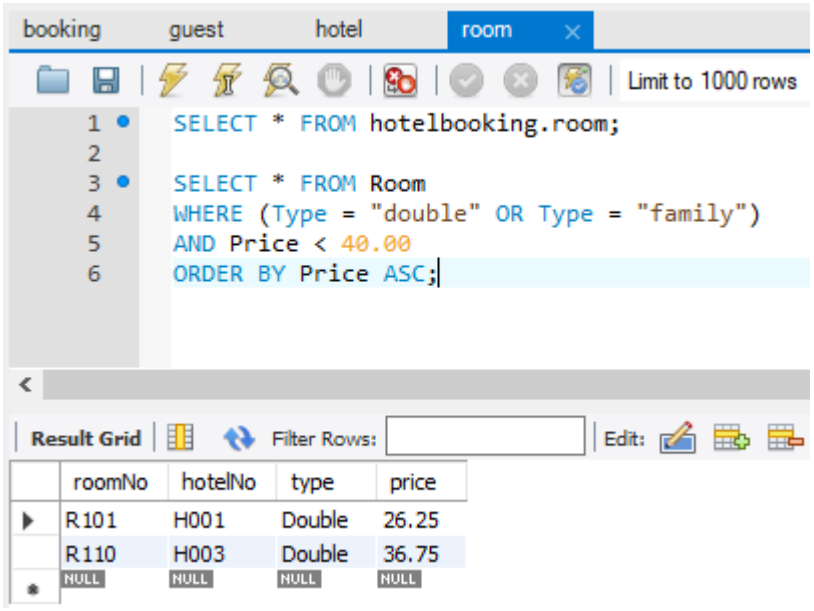
Q3.

1.



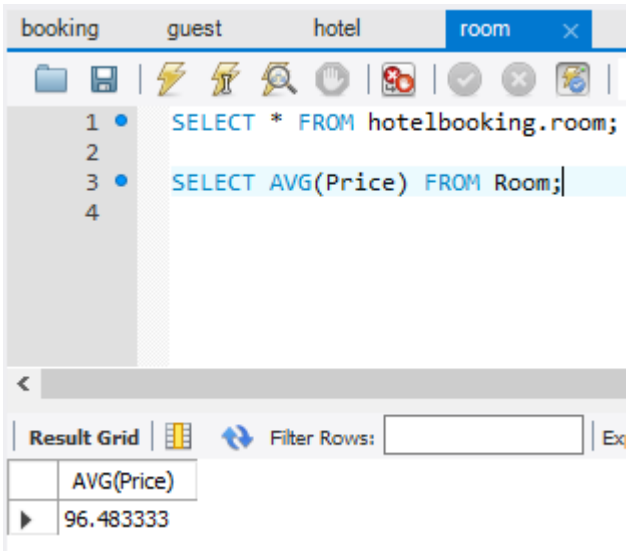
roomNo	hotelNo	type	price
R001	H001	Single	31.50
R101	H001	Double	26.25
R101	H002	Single	59.85
R104	H002	Double	94.50
R110	H003	Double	36.75
R210	H003	Family	210.00
R302	H001	Family	42.00
R302	H002	Family	157.50
R907	H004	Family	210.00
NULL	NULL	NULL	NULL

2.

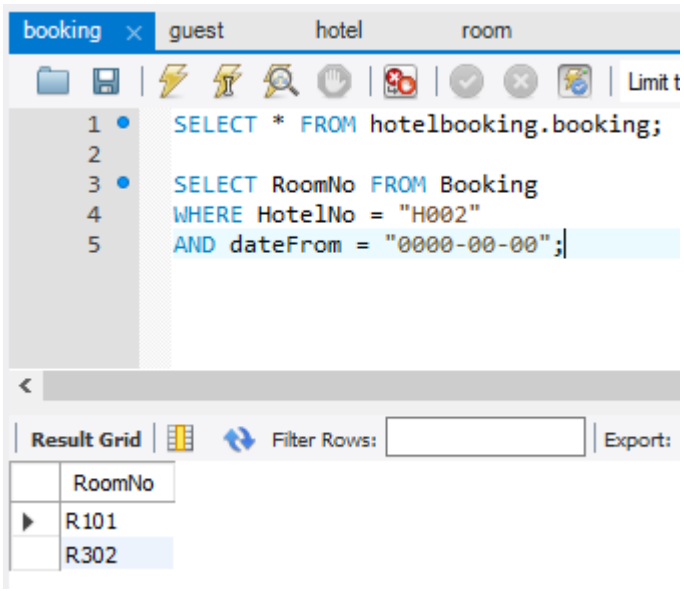


roomNo	hotelNo	type	price
R101	H001	Double	26.25
R110	H003	Double	36.75
NULL	NULL	NULL	NULL

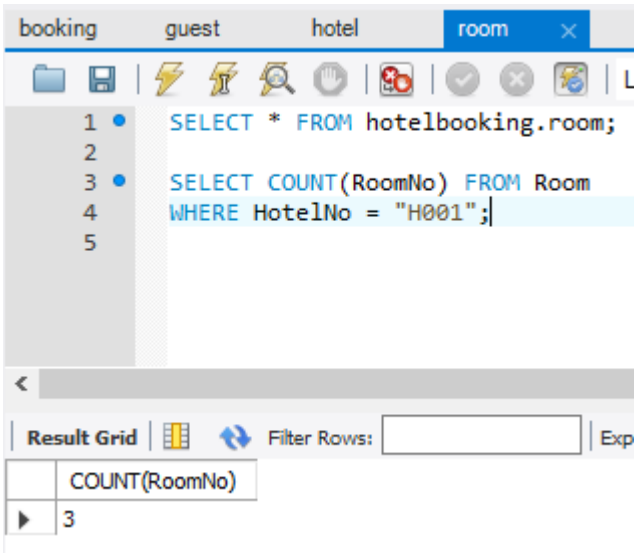
3.


booking
guest
hotel
room
1 SELECT * FROM hotelbooking.room;
2
3 SELECT AVG(Price) FROM Room;
4
Result Grid
Filter Rows:
AVG(Price)
96.483333

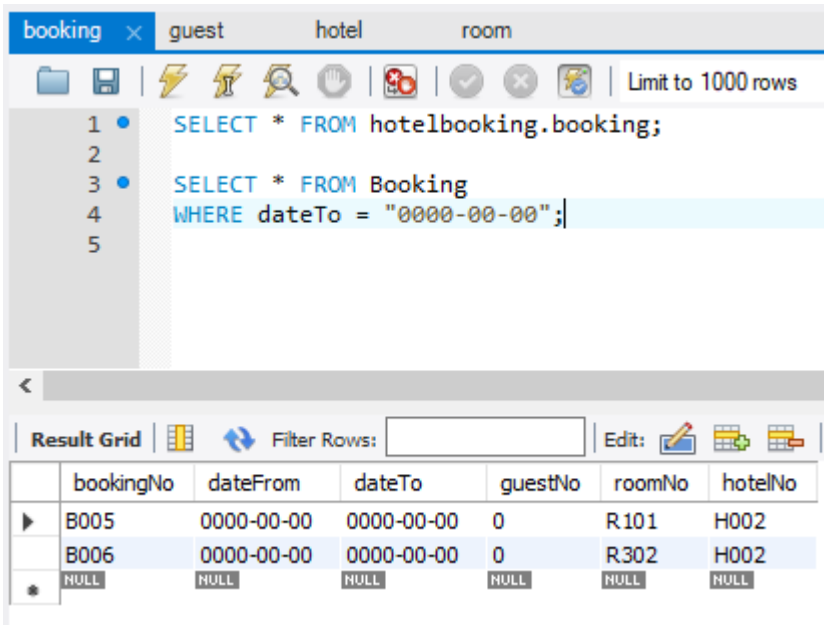
4.


booking
guest
hotel
room
Limit t
1 SELECT * FROM hotelbooking.booking;
2
3 SELECT RoomNo FROM Booking
4 WHERE HotelNo = "H002"
5 AND dateFrom = "0000-00-00";
Result Grid
Filter Rows:
Export:
RoomNo
R101
R302

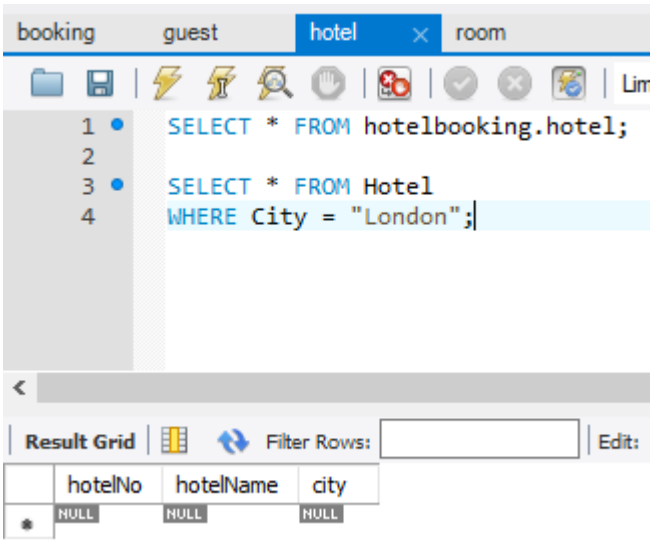
5.


booking
guest
hotel
room
SELECT * FROM hotelbooking.room;
SELECT COUNT(RoomNo) FROM Room
WHERE HotelNo = "H001";
Result Grid
Filter Rows:
Exp
COUNT(RoomNo)
3

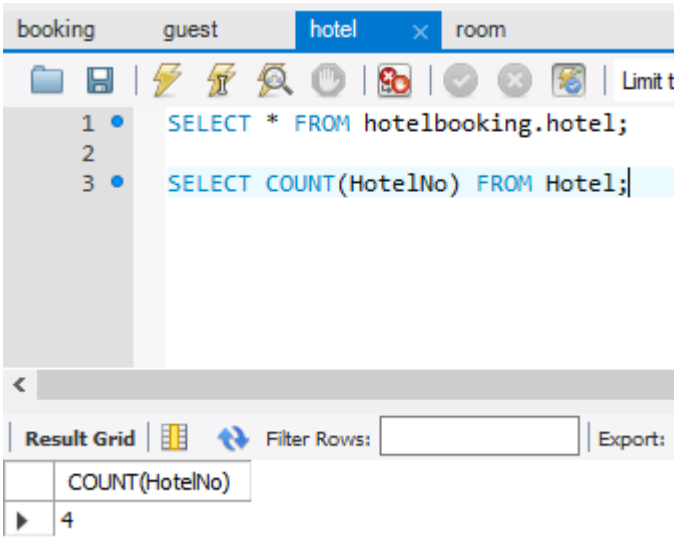
6.


booking
guest
hotel
room
Limit to 1000 rows
SELECT * FROM hotelbooking.booking;
SELECT * FROM Booking
WHERE dateTo = "0000-00-00";
Result Grid
Filter Rows:
Edit:
bookingNo
dateFrom
dateTo
guestNo
roomNo
hotelNo
B005
0000-00-00
0000-00-00
0
R101
H002
B006
0000-00-00
0000-00-00
0
R302
H002
NULL

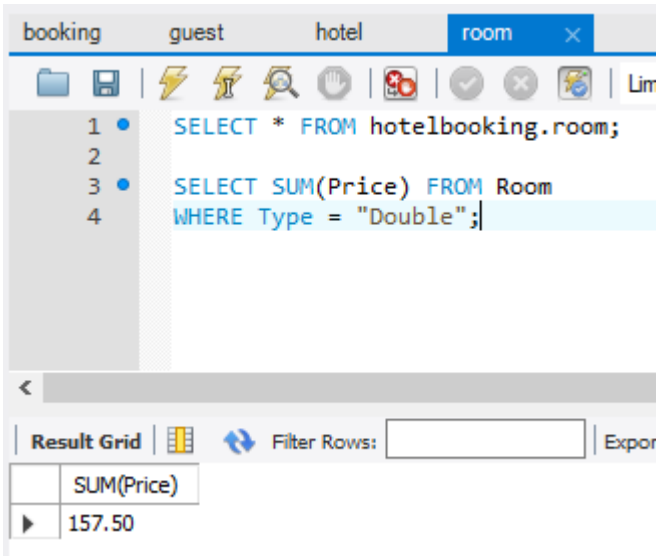
7.


booking
guest
hotel
room
1 SELECT * FROM hotelbooking.hotel;
2
3 SELECT * FROM Hotel
4 WHERE City = "London";
Result Grid
Filter Rows:
Edit:
hotelNo
hotelName
city
NULL
NULL
NULL

8.


booking
guest
hotel
room
1 SELECT * FROM hotelbooking.hotel;
2
3 SELECT COUNT(HotelNo) FROM Hotel;
Result Grid
Filter Rows:
Export:
COUNT(HotelNo)
4

9.


booking
guest
hotel
room
1 SELECT * FROM hotelbooking.room;
2
3 SELECT SUM(Price) FROM Room
4 WHERE Type = "Double";
Result Grid
Filter Rows:
SUM(Price)
157.50

10.

booking guest hotel room

Limit to 1000 rows

```
1  SELECT * FROM hotelbooking.booking;
2
3  SELECT * FROM Booking
4  INNER JOIN Guest
5  ON Booking.GuestNo = Guest.GuestNo
6  WHERE Guest.GuestName = "Mary";
7
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

bookingNo	dateFrom	dateTo	guestNo	roomNo	hotelNo	guestNo	guestName	guestAddress
B001	2012-02-08	NULL	G001	R001	H001	G001	Mary	Cork Ireland
B003	2013-07-15	NULL	G001	R210	H003	G001	Mary	Cork Ireland

booking guest hotel room

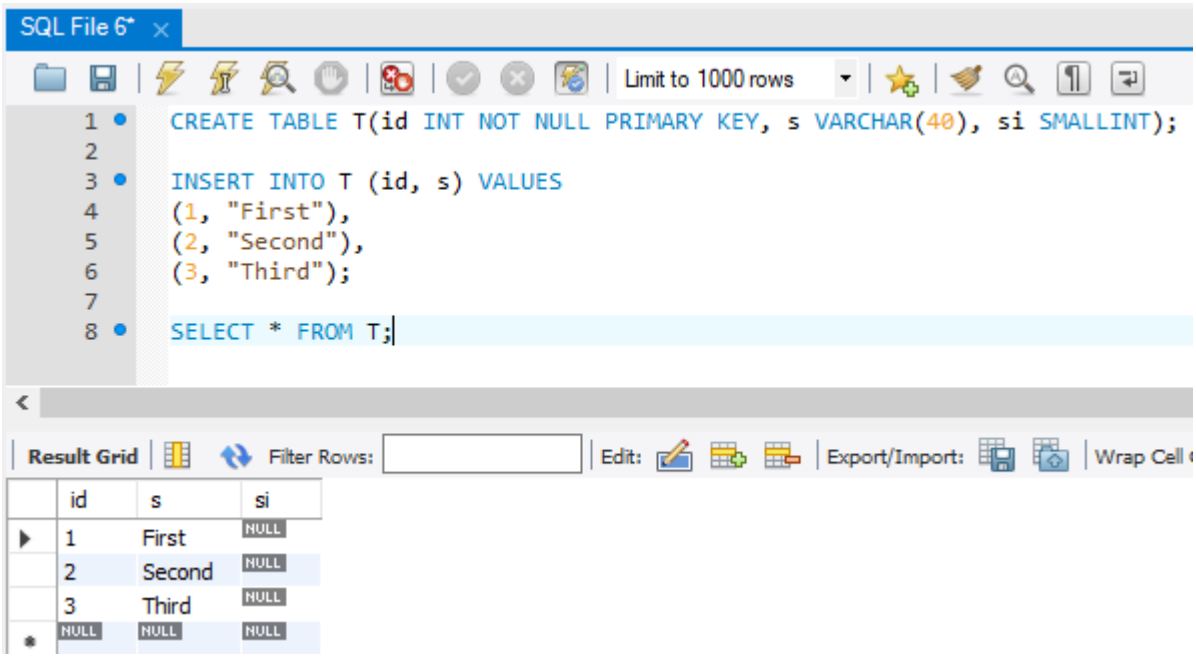
Limit to 1000 rows

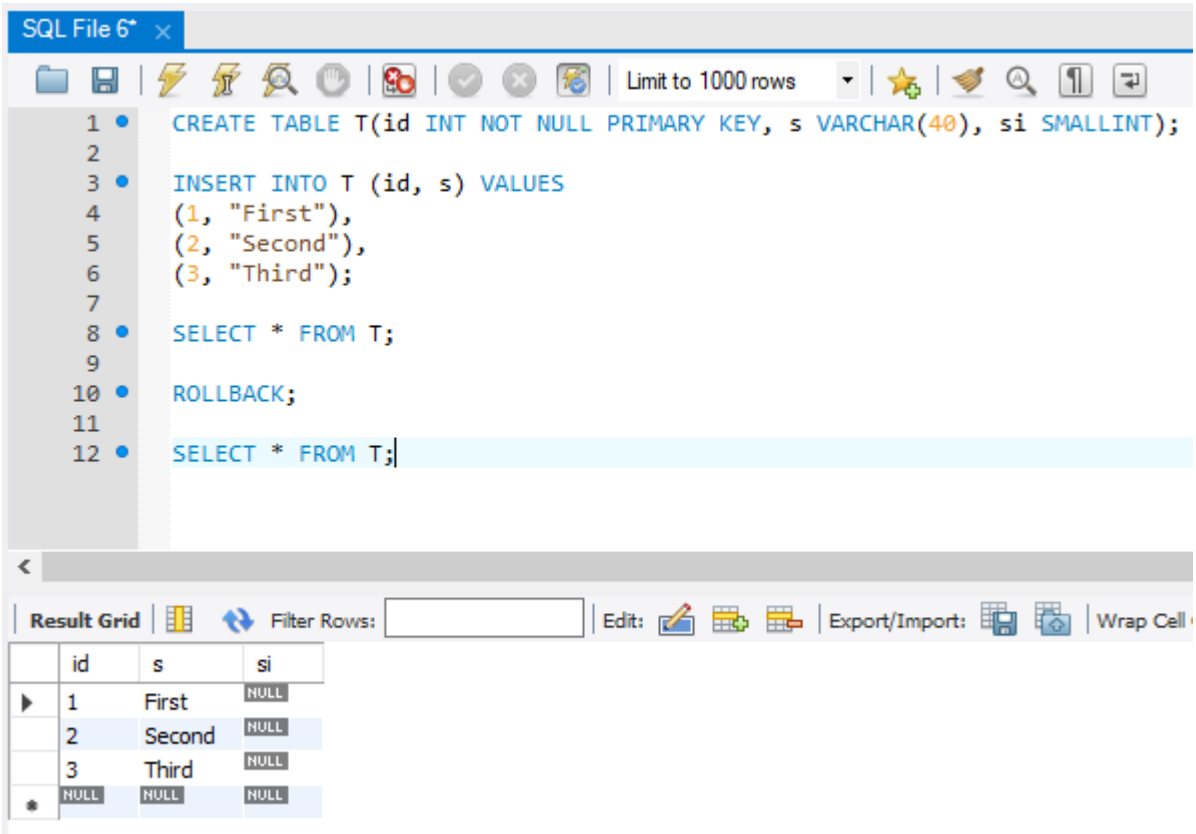
```
1  SELECT * FROM hotelbooking.booking;
2
3  SELECT * FROM Booking
4  INNER JOIN Guest
5  ON Booking.GuestNo = Guest.GuestNo
6  WHERE Guest.GuestName = "Mary";
7
8  DELETE FROM Booking
9  WHERE GuestNo = "G001";
10
11 SELECT * FROM Booking;
```

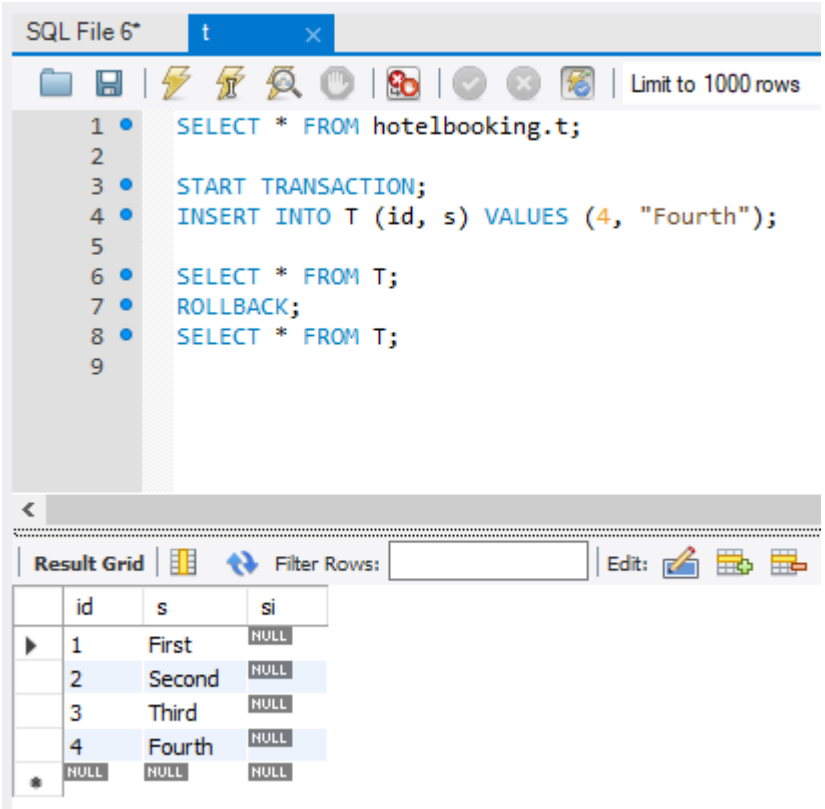
Result Grid | Filter Rows: | Edit:

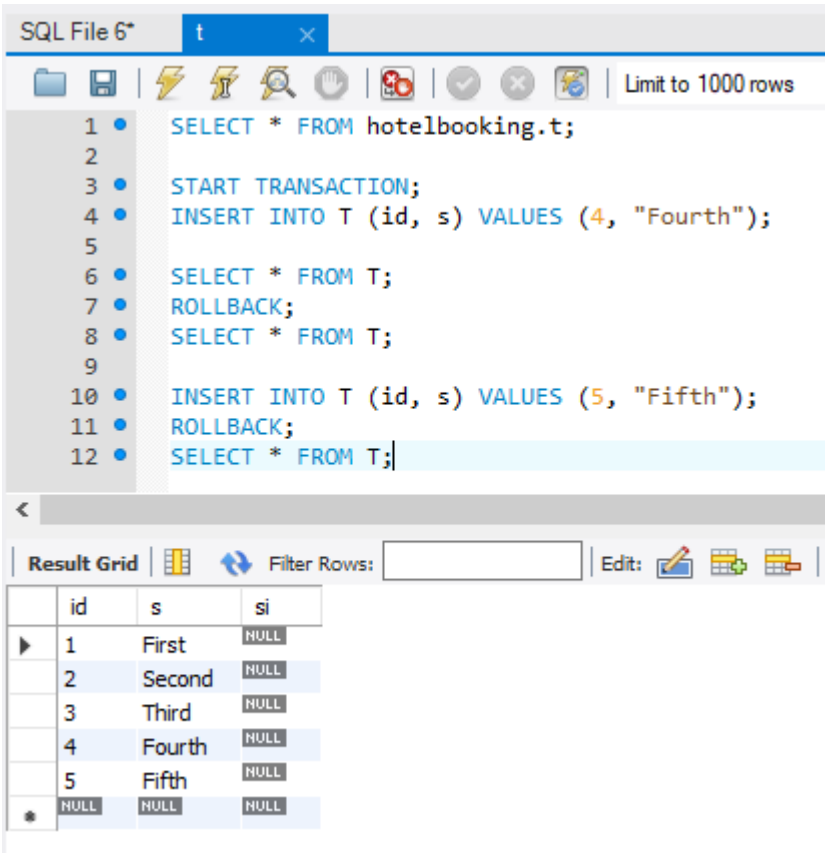
bookingNo	dateFrom	dateTo	guestNo	roomNo	hotelNo
B002	2013-01-01	2013-01-03	G002	R104	H002
B004	2012-12-31	2013-01-14	G003	R907	H004
B005	0000-00-00	0000-00-00	0	R101	H002
B006	0000-00-00	0000-00-00	0	R302	H002
NULL	NULL	NULL	NULL	NULL	NULL

Q3.


SQL File 6*
Limit to 1000 rows
1 CREATE TABLE T(id INT NOT NULL PRIMARY KEY, s VARCHAR(40), si SMALLINT);
2
3 INSERT INTO T (id, s) VALUES
4 (1, "First"),
5 (2, "Second"),
6 (3, "Third");
7
8 SELECT * FROM T;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell
id s si
1 First NULL
2 Second NULL
3 Third NULL
NULL NULL NULL


SQL File 6*
Limit to 1000 rows
1 CREATE TABLE T(id INT NOT NULL PRIMARY KEY, s VARCHAR(40), si SMALLINT);
2
3 INSERT INTO T (id, s) VALUES
4 (1, "First"),
5 (2, "Second"),
6 (3, "Third");
7
8 SELECT * FROM T;
9
10 ROLLBACK;
11
12 SELECT * FROM T;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell
id s si
1 First NULL
2 Second NULL
3 Third NULL
NULL NULL NULL


SQL File 6*
t
Limit to 1000 rows
1 SELECT * FROM hotelbooking.t;
2
3 START TRANSACTION;
4 INSERT INTO T (id, s) VALUES (4, "Fourth");
5
6 SELECT * FROM T;
7 ROLLBACK;
8 SELECT * FROM T;
9
Result Grid
Filter Rows:
Edit:
id s si
1 First NULL
2 Second NULL
3 Third NULL
4 Fourth NULL
NULL NULL NULL


SQL File 6*
t
Limit to 1000 rows
1 SELECT * FROM hotelbooking.t;
2
3 START TRANSACTION;
4 INSERT INTO T (id, s) VALUES (4, "Fourth");
5
6 SELECT * FROM T;
7 ROLLBACK;
8 SELECT * FROM T;
9
10 INSERT INTO T (id, s) VALUES (5, "Fifth");
11 ROLLBACK;
12 SELECT * FROM T;
Result Grid
Filter Rows:
Edit:
id s si
1 First NULL
2 Second NULL
3 Third NULL
4 Fourth NULL
5 Fifth NULL
NULL NULL NULL