NoSQL assignment 1 – David Hurley

1.

Conceptual

ER diagram showing entities: patient, doctor, pharma company, contract, pharmacy, drug, supervisor with relationships Has, Takes, Perscribed, Sell, oversees, appoints.
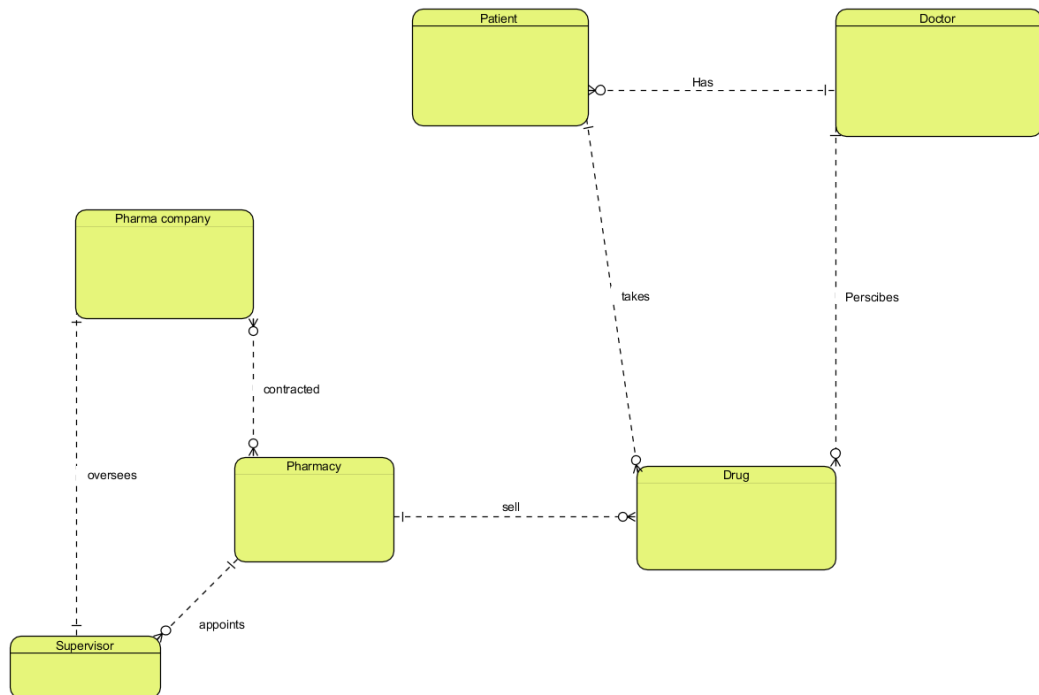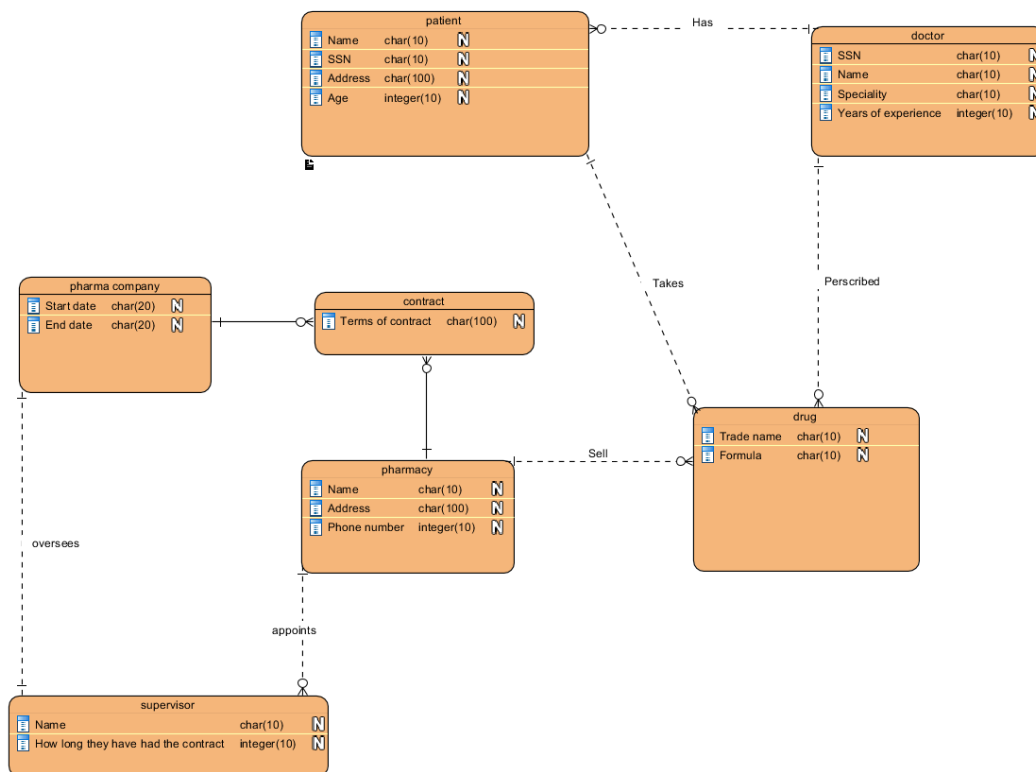
2.

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

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

Sales_Order(**salesordernumber**, date, subtotal, tax, total, **customerID**, salespersonID)

Order_Line_Item(lineNumber, **salesordernumber**, quantity, unitprice, extendedPrice, **itemnumber**)

Item(**itemnumber**, unitprice, description)

Q3. 1.

```sql
SELECT * FROM hotelbooking.room;
update room
set price = price *1.05;
```

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.

```
1 ●   SELECT * FROM hotelbooking.room
2     where ((type = "Double" or "Family")
3       and (price <40));
4
```

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

3.

```
1 ●   Select * from room
2     where price <40 AND type in ('Double','Family')
3     order by price;
4
```

Result Grid | Filter Rows: | Edit:

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

4.

```
1  SELECT * from room where roomNo not in (select roomNo from booking);
2
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

roomNo	hotelNo	type	price
R110	H003	Double	36.75
NULL	NULL	NULL	NULL

5.

```
1  select count(hotelNo) from room where hotelNo = | (select hotelNo from hotel where city ='Washington');
2
```

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

count(hotelNo)
3

6.


```
1 •    SELECT *
2          FROM booking
3          WHERE dateTo = '0000-00-00';
4
5
```

bookingNo	dateFrom	dateTo	guestNo	roomNo	hotelNo
B001	2012-02-08	0000-00-00	G001	R001	H001
B003	2013-07-15	0000-00-00	G001	R210	H003
B005	0000-00-00	0000-00-00		R101	H002
B006	0000-00-00	0000-00-00		R302	H002
NULL	NULL	NULL	NULL	NULL	NULL

7.


```
1 •    SELECT * FROM hotelbooking.hotel where city = 'London';
```

hotelNo	hotelName	city
NULL	NULL	NULL

8.

```
1 • SELECT count(hotelNo) FROM hotelbooking.hotel;
```

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

count(hotelNo)
4

9.

```
1 • SELECT sum(price) FROM hotelbooking.room where type = 'double';
2
```

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

sum(price)
157.50

10.

```
1 • delete from booking where guestNo = (SELECT guestNo FROM hotelbooking.guest where guestName = 'Mary');
2
```

Q4:

```
12 ●   START TRANSACTION;
13 ●   INSERT INTO T (id, s) VALUES (4, 'fourth');
14 ●   SELECT * FROM T ;
15 ●   ROLLBACK;
16 ●   SELECT * FROM T;
17
18
19 ●   INSERT INTO T (id, s) VALUES (5, 'fifth');
20 ●   ROLLBACK;
21 ●   SELECT * FROM T;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	s	si
1	first	NULL
2	second	NULL
3	third	NULL
5	fifth	NULL
NULL	NULL	NULL