KB금융그룹 | 국민의 평생 금융파트너

2024년 상반기 K-디지털 트레이닝

DB DML 답안

[KB] IT’s Your Life

KB 국민은행

Q1 - DML(샘플파일 다운로드)

- **shop6 db를 생성하여 다음 작업을 수행하시오.**

1. product3 테이블을 sql문으로 생성, price는int로 설정
   다른 필드의 타입은 임의로 설정 가능
1. 다운로드 받은 csv파일을 이용하여 데이터를 삽입
2. price로 내림차순 정렬하여 전체컬럼 검색
3. company로 오름차순 정렬하여 제품의 이름, 내용, 가격 검색
4. company의 목록을 중복을 제거하여 검색
5. 각 음식을 5개씩 주문했을 때의 가격을 price5라고 항목명으로 하여 출력
6. price가 5000인 제품명과 회사명

id	name	content	price	company	img
100	food1	fun food1	1000	c100	1.png
101	food2	fun food2	2000	c200	2.png
102	food3	fun food3	3000	c300	3.png
103	food4	fun food4	4000	c100	4.png
104	food5	fun food5	5000	c200	5.png
105	food6	fun food6	6000	c300	6.png
106	food7	fun food7	7000	c100	7.png
107	food8	fun food8	8000	c200	8.png
108	food9	fun food9	9000	c300	9.png
109	food10	fun food10	10000	c100	10.png

Q1 - DML(샘플파일 다운로드)

8. price가 3000이상 6000미만 사이인 제품명과 가격, 회사명 검색

9. 회사명이 c100이 아닌 회사명과 제품명

10. 회사명이 c100, c200인 제품명과 가격

11. 제품명에 4로 끝나는 제품의 전체 정보 검색

12. 제품내용에 food를 포함하는 제품의 전체 정보 검색

13. price가 5000원인 제품의 content를 품절로 수정

14. id가 100, 102번 제품의 img를 o.png로, price를 10000으로 수정

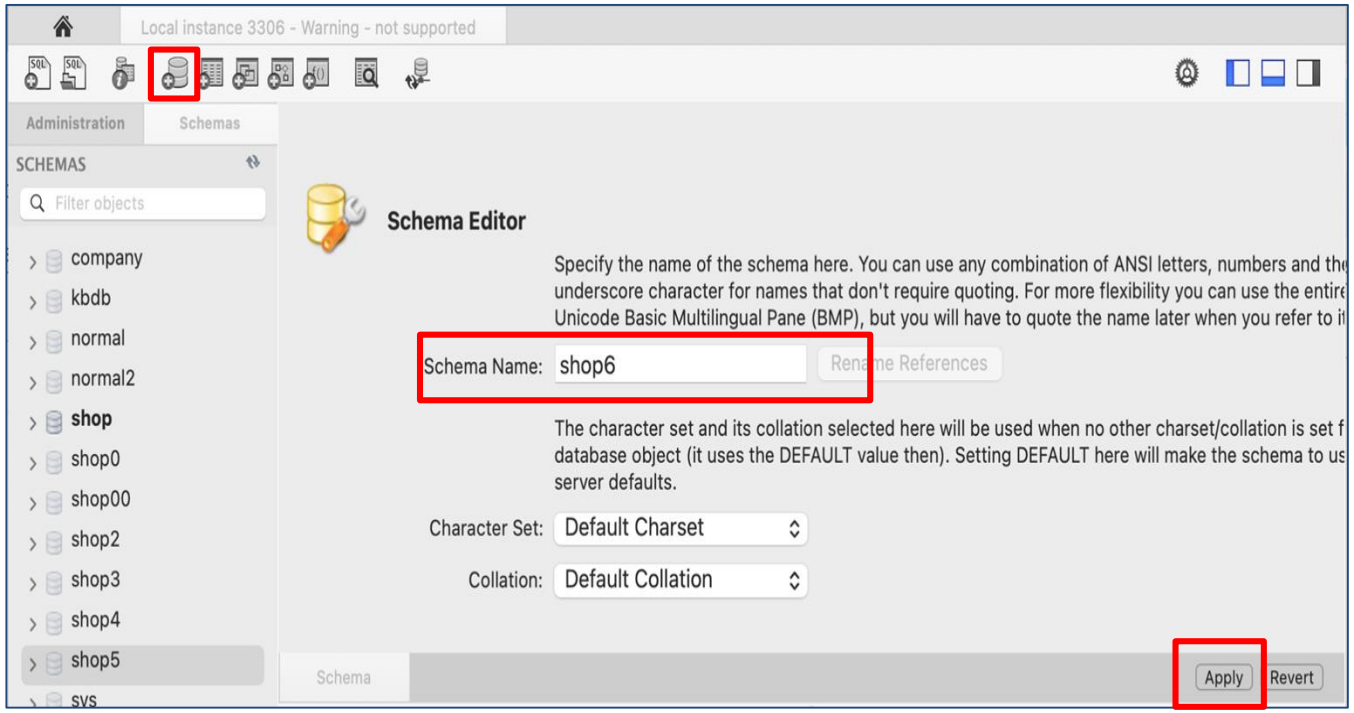
15. 회사명이 c100인 경우 모든 정보 삭제

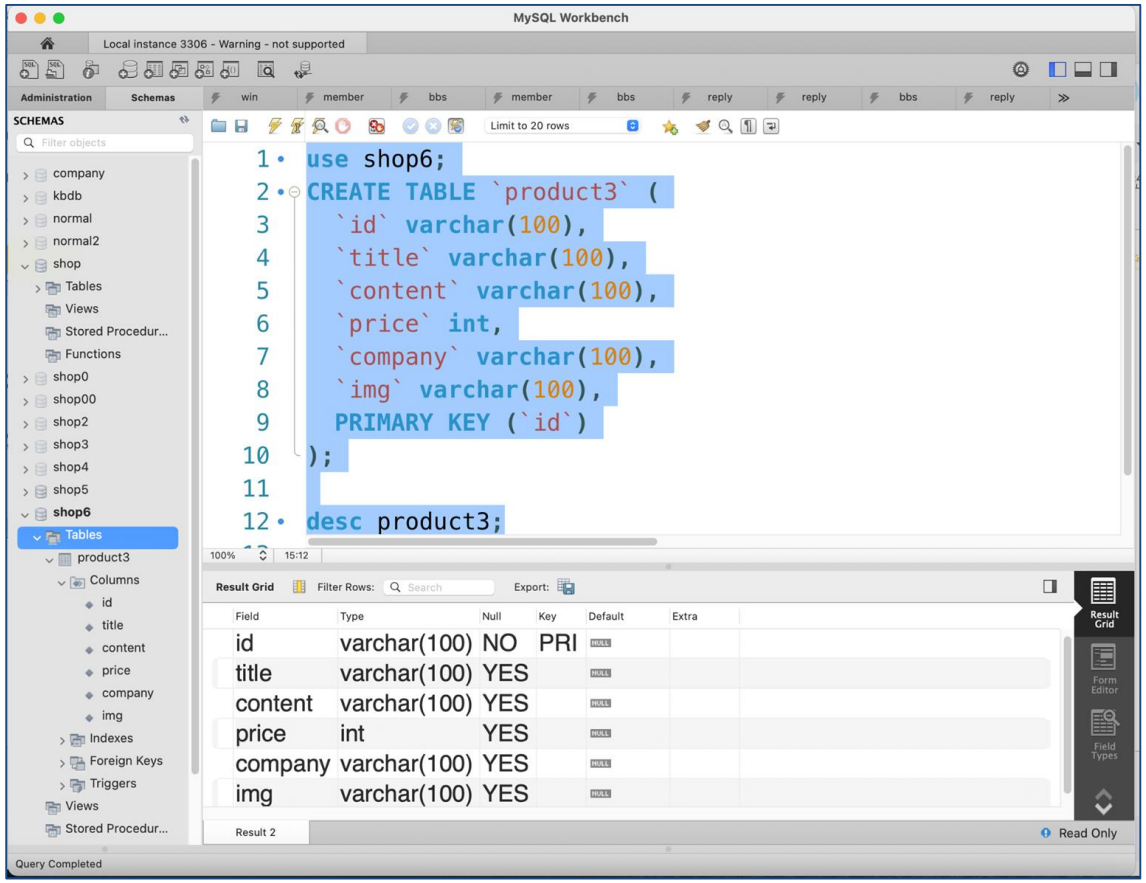
16. 테이블의 모든 정보 삭제

17. 테이블 삭제

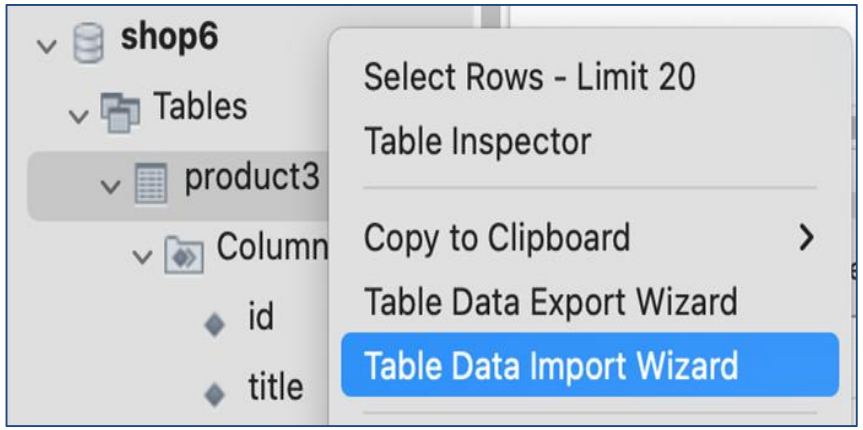
Q1 - DML

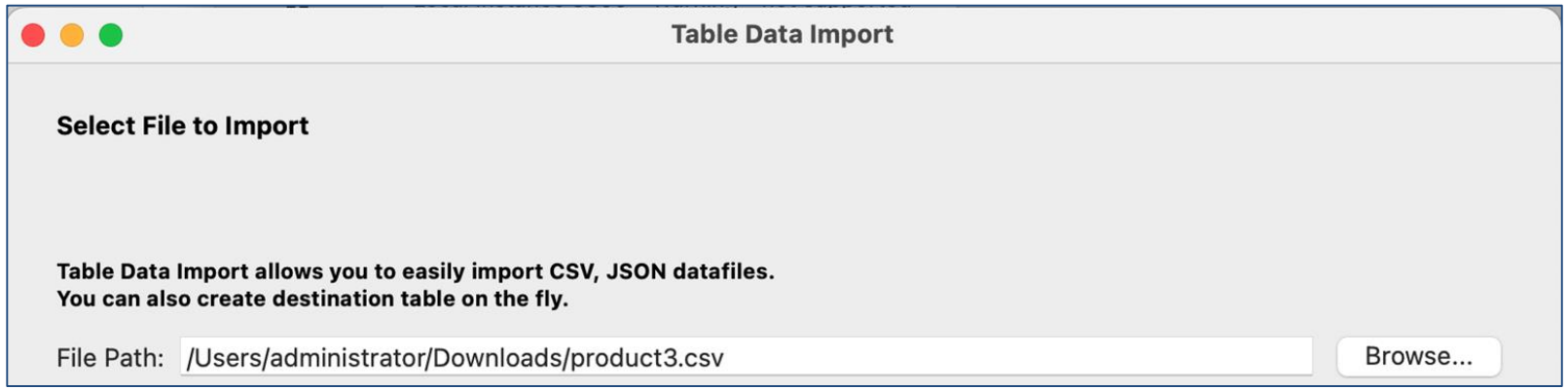
1 - 2.

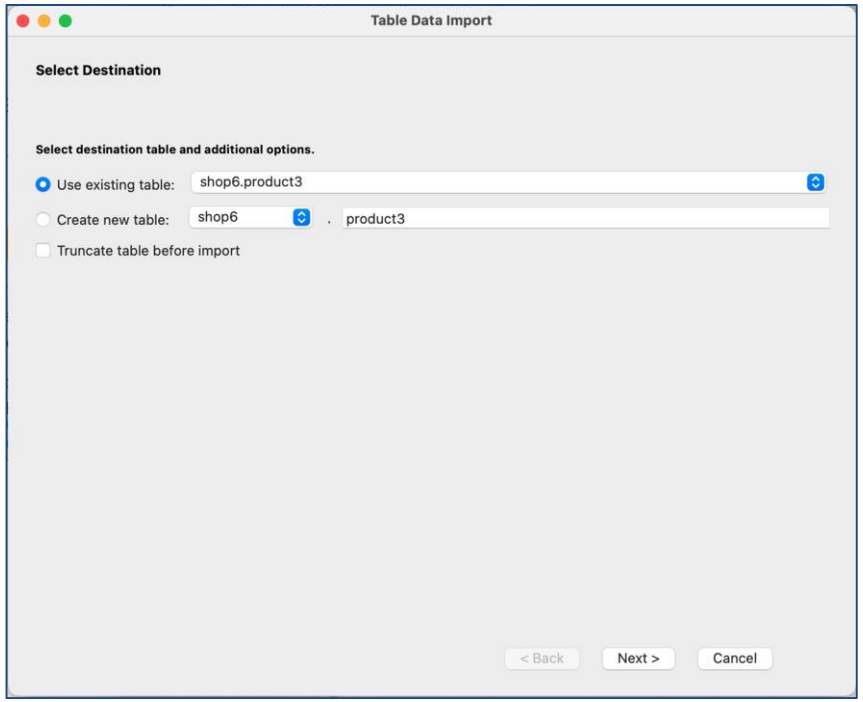

Local instance 3306 - Warning - not supported
Administration
Schemas
SCHEMAS
Filter objects
company
kbdb
normal
normal2
shop
shop0
shop00
shop2
shop3
shop4
shop5
sys
Schema Editor
Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the
underscore character for names that don't require quoting. For more flexibility you can use the entire
Unicode Basic Multilingual Pane (BMP), but you will have to quote the name later when you refer to it
Schema Name: shop6
Rename References
The character set and its collation selected here will be used when no other charset/collation is set f
database object (it uses the DEFAULT value then). Setting DEFAULT here will make the schema to us
server defaults.
Character Set: Default Charset
Collation: Default Collation
Schema
Apply
Revert

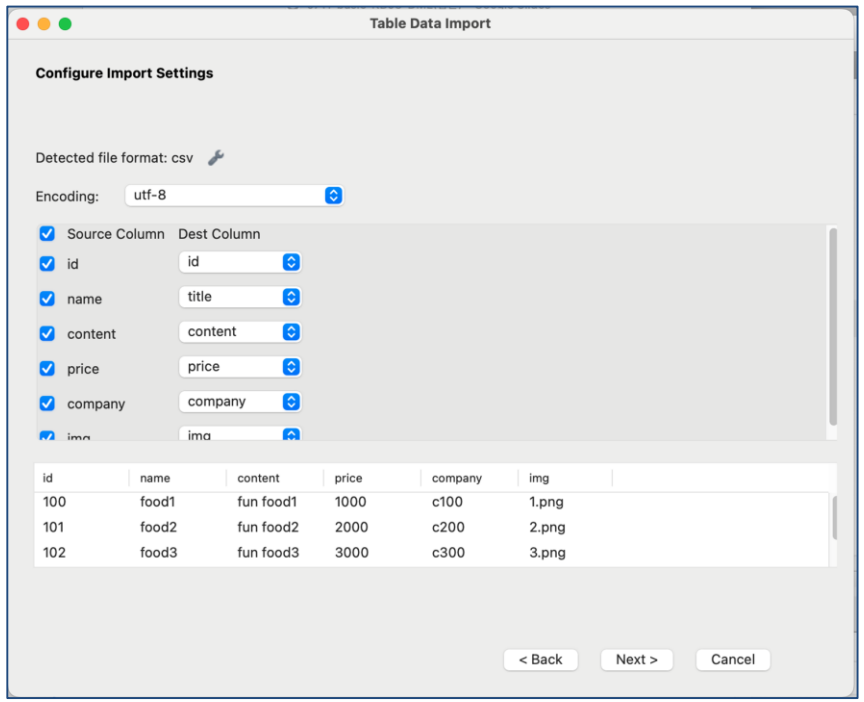

MySQL Workbench
Local instance 3306 - Warning - not supported
use shop6;
CREATE TABLE `product3` (
`id` varchar(100),
`title` varchar(100),
`content` varchar(100),
`price` int,
`company` varchar(100),
`img` varchar(100),
PRIMARY KEY (`id`)
);
desc product3;
Result Grid
Field Type Null Key Default Extra
id varchar(100) NO PRI
title varchar(100) YES
content varchar(100) YES
price int YES
company varchar(100) YES
img varchar(100) YES
Result 2
Read Only
Query Completed

Q1 - DML










```
1 • SELECT * FROM shop6.product3;
```

Result Grid | Filter Rows: Search | Edit: | Export/Import:

id	title	content	price	company	img
100	food1	fun food1	1000	c100	1.png
101	food2	fun food2	2000	c200	2.png
102	food3	fun food3	3000	c300	3.png
103	food4	fun food4	4000	c100	4.png
104	food5	fun food5	5000	c200	5.png
105	food6	fun food6	6000	c300	6.png
106	food7	fun food7	7000	c100	7.png
107	food8	fun food8	8000	c200	8.png
108	food9	fun food9	9000	c300	9.png
109	food10	fun food10	10000	c100	10.png

Q1 - DML

3 - 4

```
1  select * from product3
2  order by price desc;
```

100% 21:2

Result Grid | Filter Rows: Search | Edit: | Export/Import:

id	title	content	price	company	img
109	food10	fun food10	10000	c100	10.png
108	food9	fun food9	9000	c300	9.png
107	food8	fun food8	8000	c200	8.png
106	food7	fun food7	7000	c100	7.png
105	food6	fun food6	6000	c300	6.png
104	food5	fun food5	5000	c200	5.png
103	food4	fun food4	4000	c100	4.png
102	food3	fun food3	3000	c300	3.png
101	food2	fun food2	2000	c200	2.png
100	food1	fun food1	1000	c100	1.png

```
4  select title, content, price
5  from product3
6  order by company;
7
```

100% 18:6

Result Grid | Filter Rows: Search | Export:

title	content	price
food1	fun food1	1000
food4	fun food4	4000
food7	fun food7	7000
food10	fun food10	10000
food2	fun food2	2000
food5	fun food5	5000
food8	fun food8	8000
food3	fun food3	3000
food6	fun food6	6000
food9	fun food9	9000

Q1 - DML

5 - 6

```
8  select distinct(company)
9  from product3;
10
```

100% 15:9

Result Grid | Filter Rows: Search | Export:

company
c100
c200
c300

```
11  select price * 5 as price5
12  from product3;
13
```

00% 15:12

Result Grid | Filter Rows: Search | Export:

price5
5000
10000
15000
20000
25000
30000
35000
40000
45000
50000

Q1 - DML

7 - 8.

```
14 • select title, company
15   from product3
16   where price = 5000;
17
```

100% 1:14

Result Grid | Filter Rows: Search | Export:

title	company
food5	c200

```
18 • select title, price, company
19   from product3
20   where price >= 3000 and price <= 6000;
21
```

39:20

sult Grid | Filter Rows: Search | Export:

title	price	company
food3	3000	c300
food4	4000	c100
food5	5000	c200
food6	6000	c300

Q1 - DML

9 - 10.

```
32 • select title, company
33   from product3
34   where company != 'c100';
35
```

100% 25:34

Result Grid Filter Rows: Search Export:

title	company
food2	c200
food3	c300
food5	c200
food6	c300
food8	c200
food9	c300

```
37 • select title, price
38   from product3
39   where company in ('c100', 'c200');
40
```

00% 35:39

Result Grid Filter Rows: Search Export:

title	price
food1	1000
food2	2000
food4	4000
food5	5000
food7	7000
food8	8000
food10	10000

Q1 - DML

11 - 12

```
42 • select * from product3
43   where title like '%4';
44
```

00% 23:43

Result Grid | Filter Rows: Search | Edit: | Export/Import:

id	title	content	price	company	img
103	food4	fun food4	4000	c100	4.png

```
46 • select * from product3
47   where content like '%food%';
48
```

00% 29:47

Result Grid | Filter Rows: Search | Edit: | Export/Import:

id	title	content	price	company	img
100	food1	fun food1	1000	c100	1.png
101	food2	fun food2	2000	c200	2.png
102	food3	fun food3	3000	c300	3.png
103	food4	fun food4	4000	c100	4.png
104	food5	fun food5	5000	c200	5.png
105	food6	fun food6	6000	c300	6.png
106	food7	fun food7	7000	c100	7.png
107	food8	fun food8	8000	c200	8.png
108	food9	fun food9	9000	c300	9.png
109	food10	fun food10	10000	c100	10.png

Q1 - DML

13 - 14

```
50 • update product3
51   set content = '품절'
52   where price = 5000;
53
54
```

00% 16:50

tion Output

	Time	Action
1	15:35:15	update product3 set content = '품절' where price = 5000

```
55 • update product3
56   set img = 'o.png', price = 10000
57   where id = 100 or id = 102;
58
```

00% 1:55

tion Output

	Time	Action	Response
		'품절' wher...	0 row(s) affected Rows matched: 0 Changed: 0 War...
		', price...	0 row(s) affected Rows matched: 0 Changed: 0 War...

id	title	content	price	company	img
100	food1	fun food1	10000	c100	o.png
101	food2	fun food2	2000	c200	2.png
102	food3	fun food3	10000	c300	o.png
103	food4	fun food4	4000	c100	4.png
104	food5	품절	5000	c200	5.png
105	food6	fun food6	6000	c300	6.png
106	food7	fun food7	7000	c100	7.png
107	food8	fun food8	8000	c200	8.png
108	food9	fun food9	9000	c300	9.png
109	food10	fun food10	10000	c100	10.png

Q1 - DML

15 - 17.

```
74  -- 15.
75  delete from product3
76  where company = 'c100';
77
```

100% 1:75

Action Output

	Time	Action
2	15:41:52	SELECT * FROM shop6.produc
3	15:42:10	use shop6
4	15:42:16	update product3 set content =
5	15:42:20	SELECT * FROM shop6.produc
6	15:42:36	update product3 set img = 'o.p
7	15:42:39	SELECT * FROM shop6.produc
8	15:43:07	SELECT * FROM shop6.produc
9	16:42:32	delete from product3 where c

```
79  delete from product3;
80
```

0% 1:79

ion Output

	Time	Action
1	15:41:42	update product3 set content = '품절' where price = 5000
2	15:41:52	SELECT * FROM shop6.product3 LIMIT 0, 20

ontent = '품절' where price = 5000
.product3 LIMIT 0, 20
ng = 'o.png', price = 10000 where id = 1...
.product3 LIMIT 0, 20
.product3 LIMIT 0, 20
where company = 'c100'
.product3 LIMIT 0, 20

- shop6
  - Tables
  - Views
  - Stored Proc...
  - Functions
- sys
- univ

```
82  drop table product3;
83
84
```

100% 1:82

Action Output

	Time	Action
1	15:41:42	update product3 set content = '품절' where price = 5000
2	15:41:52	SELECT * FROM shop6.product3 LIMIT 0, 20
3	15:42:10	use shop6
4	15:42:16	update product3 set content = '품절' where price = 5000
5	15:42:20	SELECT * FROM shop6.product3 LIMIT 0, 20
6	15:42:36	update product3 set img = 'o.png', price = 10000 where id = 10...
7	15:42:39	SELECT * FROM shop6.product3 LIMIT 0, 20
8	15:43:07	SELECT * FROM shop6.product3 LIMIT 0, 20
9	16:42:32	delete from product3 where company = 'c100'
10	16:44:05	delete from product3
11	16:44:29	SELECT * FROM shop6.product3 LIMIT 0, 20
12	16:44:41	delete from product3
13	16:45:36	drop table product3

Q2 - DDL + DML

- **생성된 shop6 db를 이용하여 다음 작업을 수행하시오.**

1. productOrder 테이블 생성(SQL문 이용)
   - 각 컬럼을 만들고, 다음 조건에 맞게 제약조건을 설정

컬럼명	제약조건	설명
id	varchar(100), 우선키 설정	아이디
title	varchar(100), null허용하지 않음.	제품 이름
price	int	제품 가격
buydate	date, 입력시 now()함수 이용할 예정	제품 구매일
addr	varchar(200), default ‘home’으로 설정. null허용하지 않음.	제품 배송 주소

Q2 - DDL + DML

2. 다음 데이터를 insert문을 이용하여 삽입한 후, 검색하여 확인

id	title	price	buydate	addr
100	hat	1000	now()	office
200	mouse	2000	now()	입력X
300	pen	입력X	now()	입력X

Q2 - DDL + DML

1.

```sql
-- 01.
create table productOrder (
    id varchar(100) primary key,
    title varchar(100) not null,
    price int,
    buydate date,
    addr varchar(200) default 'home' not null
);
```

```sql
95 • desc productOrder;
96
```

0% 19:95

esult Grid Filter Rows: Search Export:

Field	Type	Null	Key	Default	Extra
id	varchar(100)	NO	PRI	NULL	
title	varchar(100)	NO		NULL	
price	int	YES		NULL	
buydate	date	YES		NULL	
addr	varchar(200)	NO		home	

Q2 - DDL + DML

2.

```
insert into productOrder
values ('100', 'hat', 1000, now(), 'office');

insert into productOrder(id, title, price, buydate)
values ('200', 'mouse', 2000, now());

insert into productOrder(id, title, buydate)
values ('300', 'pen', now());
```

```
106 • select * from productOrder;
107
```

100% 1:106

Result Grid Filter Rows: Search Edit: Export/Import:

id	title	price	buydate	addr
100	hat	1000	2024-07-04	office
200	mouse	2000	2024-07-04	home
300	pen	NULL	2024-07-04	home

수고하셨습니다!

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