1번

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1번

```sql
1  • ⊖ create table Customer(
2           customer_id int AUTO_INCREMENT PRIMARY KEY
3         ,customer_name varchar(100)
4         ,customer_email varchar(100)
5         ,customer_address varchar(100)
6         ,customer_call int
7
8     )
```

#	Time	Action	Message
4	09:12:15	select Employee_ID ,First_Name ,Last_Name ,Car_Number ,Date_Of_Birth from employees where First_Name like "wa%" LIMIT 0, 1000	0 row(s) returned
5	09:12:25	select Employee_ID ,First_Name ,Last_Name ,Car_Number ,Date_Of_Birth from employees where First_Name like "a%" LIMIT 0, 1000	1 row(s) returned
6	09:45:55	select e.Employee_ID ,e.First_Name ,e.Last_Name ,e.Car_Number ,e.Date_Of_Birth ,p.Project_ID ,p.Project_Name ,p.E...	4 row(s) returned
7	10:04:06	Apply changes to todaydb	Changes applied
8	10:07:22	create table Customer(customer_id int AUTO_INCREMENT PRIMARY KEY ,customer_name varchar(100) ,customer_email varchar(100) ,custom...	0 row(s) affected

```sql
1  • ⊖ create table Product(
2           product_id int AUTO_INCREMENT PRIMARY KEY
3         ,product_name varchar(100)
4         ,product_price int
5         ,product_inventory int
6
7     )
```

Output

Action Output

#	Time	Action	Message
5	09:12:25	select Employee_ID ,First_Name ,Last_Name ,Car_Number ,Date_Of_Birth from employees where First_Name like "a%" LIMIT 0, 1000	1 row(s) returned
6	09:45:55	select e.Employee_ID ,e.First_Name ,e.Last_Name ,e.Car_Number ,e.Date_Of_Birth ,p.Project_ID ,p.Project_Name ,p....	4 row(s) returned
7	10:04:06	Apply changes to todaydb	Changes applied
8	10:07:22	create table Customer(customer_id int AUTO_INCREMENT PRIMARY KEY ,customer_name varchar(100) ,customer_email varchar(100) ,custom...	0 row(s) affected
9	10:09:25	create table Product(product_id int AUTO_INCREMENT PRIMARY KEY ,product_name varchar(100) ,product_price int ,product_inventory int)	0 row(s) affected

Action Output

#	Time	Action	Message
5	09:12:25	select Employee_ID ,First_Name ,Last_Name ,Car_Number ,Date_Of_Birth from employees where First_Name like "a%" LIMIT 0, 1000	1 row(s) returned
6	09:45:55	select e.Employee_ID ,e.First_Name ,e.Last_Name ,e.Car_Number ,e.Date_Of_Birth ,p.Project_ID ,p.Project_Name ,p....	4 row(s) returned
7	10:04:06	Apply changes to todaydb	Changes applied
8	10:07:22	create table Customer(customer_id int AUTO_INCREMENT PRIMARY KEY ,customer_name varchar(100) ,customer_email varchar(100) ,custom...	0 row(s) affected
9	10:09:25	create table Product(product_id int AUTO_INCREMENT PRIMARY KEY ,product_name varchar(100) ,product_price int ,product_inventory int)	0 row(s) affected

```
1   create table Orders(
2       Orders_id int AUTO_INCREMENT PRIMARY KEY
3      ,customer_id int
4      ,Orders_date Date
5   ,FOREIGN KEY (customer_id)
6   REFERENCES  customer(customer_id)
7
8   );
```

Output

Action Output

#	Time	Action	Message
6	09:45:55	select e.Employee_ID ,e.First_Name ,e.Last_Name ,e.Car_Number ,e.Date_Of_Birth ,p.Project_ID ,p.Project_Name ,p....	4 row(s) returned
7	10:04:06	Apply changes to todaydb	Changes applied
8	10:07:22	create table Customer(customer_id int AUTO_INCREMENT PRIMARY KEY ,customer_name varchar(100) ,customer_email varchar(100) ,custom...	0 row(s) affected
9	10:09:25	create table Product(product_id int AUTO_INCREMENT PRIMARY KEY ,product_name varchar(100) ,product_price int ,product_inventory int)	0 row(s) affected
10	10:13:19	create table Orders(Orders_id int AUTO_INCREMENT PRIMARY KEY ,customer_id int ,Orders_date Date , FOREIGN KEY (customer_id) REFERE...	0 row(s) affected

```
1   create table Orders_Detail(
2       Orders_id int
3      ,product_id int
4      ,Orders_count int
5      ,Orders_price int
6   ,FOREIGN KEY (Orders_id)
7   REFERENCES  orders(Orders_id)
8   );
```

Output

Action Output

#	Time	Action	Message
7	10:04:06	Apply changes to todaydb	Changes applied
8	10:07:22	create table Customer(customer_id int AUTO_INCREMENT PRIMARY KEY ,customer_name varchar(100) ,customer_email varchar(100) ,....	0 row(s) affected
9	10:09:25	create table Product(product_id int AUTO_INCREMENT PRIMARY KEY ,product_name varchar(100) ,product_price int ,product_invento...	0 row(s) affected
10	10:13:19	create table Orders(Orders_id int AUTO_INCREMENT PRIMARY KEY ,customer_id int ,Orders_date Date , FOREIGN KEY (customer_id) R...	0 row(s) affected
11	10:23:05	create table Orders_Detail(Orders_id int ,product_id int ,Orders_count int ,Orders_price int ,FOREIGN KEY (Orders_id) REFERENCESord...	0 row(s) affected

2번

```sql
1 ●   INSERT INTO orders_detail
2     (Orders_id,product_id,Orders_count,Orders_price)
3     VALUES (1,1,5,500)
4            ,(1,2,5,5000)
5            ,(2,1,3,300)
6            ,(2,2,3,3000);
```

```sql
1     INSERT INTO customer
2     (customer_name,customer_email, customer_address, customer_call)
3     VALUES ("sukju","abc@gmail.com","gumi",01012341234)
4            ,("woosuk","aaa@gmail.com","daehu",01011111111);
```

```sql
1 ●   INSERT INTO product
2     (product_name,product_price,product_inventory)
3     VALUES ("pencil",100,100)
4            ,("apple",1000,10);
```

product_id	product_name	product_price	product_in
1	pencil	100	100
2	apple	1000	10
NULL	NULL	NULL	NULL

```
1 •    INSERT INTO orders
2      (customer_id,Orders_date)
3      VALUES (1,'2024-08-05')
4          ,(2,'2024-08-05');
```

Orders_id	customer_id	Orders_date
1	1	2024-08-05
2	2	2024-08-05
NULL	NULL	NULL

Orders_id	product_id	Orders_count	Orders_price
1	1	5	500
1	2	5	5000
2	1	3	300
2	2	3	3000

3번문제

```
1 •    update customer
2      set customer_address = "gumi-bongkok-korea"
3      where customer_id = 1;
```

```
1 •    delete from orders_detail
2      where Orders_id = 1 and product_id = 2 ;
```

3번 문제 결과

	customer_id	customer_name	customer_email	customer_address	customer_call
▶	1	sukju	abc@gmail.com	gumi-bongkok-korea	1012341234
	2	woosuk	aaa@gmail.com	daehu	1011111111
✱	NULL	NULL	NULL	NULL	NULL
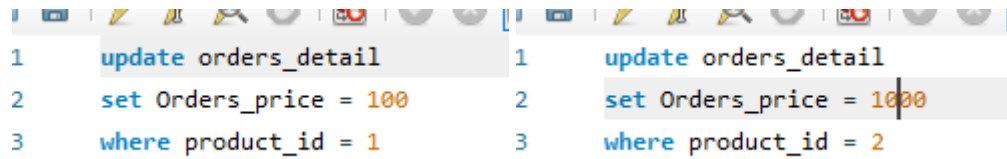
	Orders_id	product_id	Orders_count	Orders_price
▶	1	1	5	500
	2	1	3	300
	2	2	3	3000

1번문제에서 외래키 1개를 덜 추가하여 추가로 외래키를 설정

```
1    ALTER TABLE orders_detail
2    ADD CONSTRAINT sameprojduct
3    foreign key (product_id) REFERENCES product(product_id);
```

4번

total price를 위해서 orders detail 의 값을 수정하였습니다

```
1    update orders_detail          1    update orders_detail
2    set Orders_price = 100        2    set Orders_price = 1000
3    where product_id = 1          3    where product_id = 2
```

update orders_detail set Orders_price = 100 where product_id = 1

update orders_detail set Orders_price = 1000 where product_id = 2

```
1    update orders_detail          1    update orders_detail
2    set Orders_price = 100        2    set Orders_price = 1000
3    where product_id = 1          3    where product_id = 2
```

update orders_detail set

```sql
1 •   SELECT
2           p.product_name
3         ,d.Orders_count
4         ,d.Orders_price
5         ,o.Orders_date
6         ,(d.Orders_price * d.Orders_count) as totalprice
7     FROM
8         orders_detail d
9     join
10        orders o
11    join
12        product p
13    ON
14        p.product_id = d.product_id and o.Orders_id =d.Orders_id
15
```

	product_name	Orders_count	Orders_price	Orders_date	totalprice
▶	pencil	5	100	2024-08-05	500
	pencil	3	100	2024-08-05	300
	apple	3	1000	2024-08-05	3000

```sql
1 •   SELECT
2           c.customer_name
3         ,SUM(d.Orders_count) AS TotalProducts
4     FROM
5
6           orders o
7     join
8         customer c
9     on o.customer_id = c.customer_id
10
11    join orders_detail d
12    on o.Orders_id = d.Orders_id
13
14    group by
15        c.customer_name;
16
```

	customer_name	TotalProducts
▶	sukju	5
	woosuk	6