Day 09. Set

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실습 데이터

```
DROP DATABASE IF EXISTS pokemon;
CREATE DATABASE pokemon;
USE pokemon;
CREATE TABLE mypokemon (
number  int,
name      varchar(20),
type varchar(10),
attack int,
defense int
);
CREATE TABLE friendpokemon (
number  int,
name      varchar(20),
type varchar(10),
attack int,
defense int
);
INSERT INTO mypokemon (number, name, type, attack, defense)
VALUES (10, 'caterpie', 'bug', 30, 35),
(25, 'pikachu', 'electric', 55, 40),
(26, 'raichu', 'electric', 90, 55),
(133, 'eevee', 'normal', 55, 50),
(152, 'chikoirita', 'grass', 49, 65);
```

INSERT INTO friendpokemon (number, name, type, attack, defense)
VALUES (26, 'raichu', 'electric', 80, 60),
(125, 'electabuzz', 'electric', 83, 57),
(137, 'porygon', 'normal', 60, 70),
(153, 'bayleef', 'grass', 62, 80),
(172, 'pichu', 'electric', 40, 15),
(470, 'leafeon', 'grass', 110, 130);

- mypokemon

	number	name	type	attack	defense
▶	10	caterpie	bug	30	35
	25	pikachu	electric	55	40
	26	raichu	electric	90	55
	133	eevee	normal	55	50
	152	chikoirita	grass	49	65

- friendpokemon

	number	name	type	attack	defense
▶	26	raichu	electric	80	60
	125	electabuzz	electric	83	57
	137	porygon	normal	60	70
	153	bayleef	grass	62	80
	172	pichu	electric	40	15
	470	leafeon	grass	110	130

▼ [실습 1]

▼ Mission

```
/*
MISSION (1)
내 포켓몬과 친구의 포켓몬에 어떤 타입들이 있는지 중복 제외하고 같은 I
*/
select (distinct) type
from pokemon.mypokemon
union
select (distinct) type
from pokemon.friendpokemon;
```

	type
▶	bug
	electric
	normal
	grass

```
/*
MISSION (2)
내 포켓몬과 친구의 포켓몬 중에 풀(grass) 타입 포켓몬들의 포켓몬 번호
*/
select number, name, 'my' AS whose
from pokemon.mypokemon
where type = 'grass'
union all
select number, name, "friend's" AS whose
from pokemon.friendpokemon
where type = 'grass';
```

	number	name	whose
▶	152	chikoirita	my
	153	bayleef	friend's
	470	leafeon	friend's

▼ [실습 2]
▼ Mission

```
/*
MISSION (1)
나도 가지고 있고, 친구도 가지고 있는 포켓몬의 이름을 가져와 주세요.
*/
select T1.name
from pokemon.mypokemon as T1
inner join pokemon.friendpokemon as T2
on t1.number = t2.number;
```

	name
▶	raichu

```
/*
MISSION (2)
나만 가지고 있고, 친구는 안 가지고 있는 포켓몬의 이름을 가져와 주세요
A (내가 가지고 있는 포켓몬) - B (친구가 가지고 있는 포켓몬)
*/
select T1.name
from pokemon.mypokemon as T1
left join pokemon.friendpokemon as T2
on t1.number = t2.number
where t2.number is null;
```

name
caterpie
pikachu
eevee
chikoirita

▼ Review

```
select *
from pokemon.mypokemon as T1
left join pokemon.friendpokemon as T2
on t1.number = t2.number;
```

number	name	type	attack	defense	number	name	type	attack	defense
10	caterpie	bug	30	35	NULL	NULL	NULL	NULL	NULL
25	pikachu	electric	55	40	NULL	NULL	NULL	NULL	NULL
26	raichu	electric	90	55	26	raichu	electric	80	60
133	eevee	normal	55	50	NULL	NULL	NULL	NULL	NULL
152	chikoirita	grass	49	65	NULL	NULL	NULL	NULL	NULL