Team Project
KOR – COVID19 Database

Inuk Jung

College of IT Engineering, School of Computer Science and Engineering

Scoring metric

- Total 100 point
  1. 15 point – ER model   완료!
  2. 15 point – Relational model   완료!
  3. 15 point – DB 구축(MySQL, Python)   완료!
  4. 15 point – MySQL, APACHE/PHP연동   내용1
  5. 15 point – Search function   내용2
  6. 15 point – SQL tasks   내용3
  7. 10 point – Map visualization

팀프로젝트 **3**차시

- 목표 :
  - 2 차시에서 팀별로 parsing하고 데이터베이스에 insert한 데이터들을 이용하여 web 상에 출력하면서 의미 있는 data들을 뽑아내는 것
    (Patientinfo, Case, Region, Weather, Time_info 5개의 테이블 이용)

- 내용 (각 15포인트)
  1. Patientinfo, Case, Region, Weather, Time_info 테이블을 웹 페이지 상에 출력(전체 select), 최상단에 row갯수(select된 튜플 수)를 출력!
  2. 테이블들 attribute들중에서 하나를 고르고, 선택한 attribute를 기준으로 filtering한 것을 웹 페이지 상에 출력   (5개의 테이블 중 3개 선택) 최상단에 row갯수(select된 튜플 수)를 출력!
  3. 5개의 테이블을 자유롭게 사용하여(select, join, where, group by, having, union등) 하나의 의미 있는 view를 뽑아낸 후 웹페이지 상에 출력

- 제출물
  1. 5개의 테이블을 대한 웹페이지의 php소스코드 5개와 웹페이지 최상단을 캡처한 사진 5개 (내용1)
  2. 5개의 테이블 중 3개의 테이블을 고르고, 3개의 테이블들에서 각각 어떤 attribute로 filtering하였는지 적은 README 파일, 3개의 php소스코드와 웹페이지 최상단을 캡처한 사진 3개 (내용2)
  3. 사용한 테이블들과 view 생성에 사용한 select,join,where,group by, having, union등을 적은 README 파일, 1개의 php소스 코드, 1개의 캡처한 사진(내용3)

  총 9개의 php파일과 9개의 캡처 사진, 1개의 README파일, 기간은 2주!

내용1 예시 : **patientinfo** 테이블을 통해 만든 웹 페이지

localhost/patient.php

Coneect Successfully. Host info: localhost via TCP/IP

데이터베이스 팀 프로젝트 3주차 예시

Patient Info table (Currently 5162) patients in database

Patient_ID	Sex	Age	Country	province	City	Infection_Case	Infected_by	contact_number	symptom_onset_date	confirmed_date	released_date	deceased_date	state
1000000001	male	50s	Korea	Seoul	Gangseo-gu	overseas inflow		75	2020-01-22	2020-01-23	2020-02-05		released
1000000002	male	30s	Korea	Seoul	Jungnang-gu	overseas inflow		31		2020-01-30	2020-03-02		released
1000000003	male	50s	Korea	Seoul	Jongno-gu	contact with patient	2002000001	17		2020-01-30	2020-02-19		released
1000000004	male	20s	Korea	Seoul	Mapo-gu	overseas inflow		9	2020-01-26	2020-01-30	2020-02-15		released
1000000005	female	20s	Korea	Seoul	Seongbuk-gu	contact with patient	1000000002	2		2020-01-31	2020-02-24		released
1000000006	female	50s	Korea	Seoul	Jongno-gu	contact with patient	1000000003	43		2020-01-31	2020-02-19		released
1000000007	male	20s	Korea	Seoul	Jongno-gu	contact with patient	1000000003	0		2020-01-31	2020-02-10		released
1000000008	male	20s	Korea	Seoul	etc	overseas inflow		0		2020-02-02	2020-02-24		released
1000000009	male	30s	Korea	Seoul	Songpa-gu	overseas inflow		68		2020-02-05	2020-02-21		released
1000000010	female	60s	Korea	Seoul	Seongbuk-gu	contact with patient	1000000003	6		2020-02-05	2020-02-29		released
1000000011	female	50s	China	Seoul	Seodaemun-gu	overseas inflow		23		2020-02-06	2020-02-29		released
1000000012	male	20s	Korea	Seoul	etc	overseas inflow		0		2020-02-07	2020-02-27		released
1000000013	male	80s	Korea	Seoul	Jongno-gu	contact with patient	1000000017	117		2020-02-16			deceased
1000000014	female	60s	Korea	Seoul	Jongno-gu	contact with patient	1000000013	27	2020-02-06	2020-02-16	2020-03-12		released
1000000015	male	70s	Korea	Seoul	Seongdong-gu	Seongdong-gu APT		8	2020-02-11	2020-02-19			released
1000000016	male	70s	Korea	Seoul	Jongno-gu	contact with patient	1000000017			2020-02-19	2020-03-11		released
1000000017	male	70s	Korea	Seoul	Jongno-gu	contact with patient	1000000003			2020-02-20	2020-03-01		released
1000000018	male	20s	Korea	Seoul	etc	etc				2020-02-20			released
1000000019	female	70s	Korea	Seoul	Jongno-gu	contact with patient	1000000021			2020-02-20	2020-03-08		released
1000000020	female	70s	Korea	Seoul	Seongdong-gu	Seongdong-gu APT	1000000015			2020-02-20			released
1000000021	male	80s	Korea	Seoul	Jongno-gu	contact with patient	1000000016			2020-02-20	2020-03-08		released
1000000022	male	30s	Korea	Seoul	Seodaemun-gu	Eunpyeong St. Mary's				2020-02-21			released

Inuk Jung 2021-2, Database (COMP322), KNU

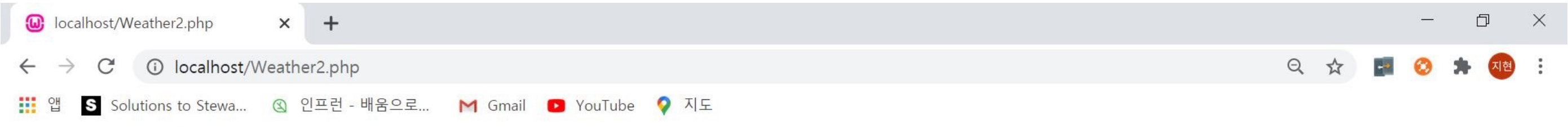# 내용 2 예시 : patient의 state를 활용하여 필터링한 결과를 출력

팀별로 자유롭게 3개의 테이블을
고르고, 고른 3개의 테이블에서
또 attribute를 선택

그 attribute의 domain중 하나의
값을 선택 또는 검색 하였을 때
해당 값을 가지는 row를 모두 출력

Hint :
 <form>태그 사용
<form>태그 안에 <input>태그로
Radio, select, text 어떤 것이든 사용
가능

내용 2 예시

wdate를 선택하세요.

2020 ▽ 01 ▽ 01 ▽ submit

Weather table (Currently 20) weathers in database which wdate is 2020-05-12

region_code	province	wdate	avg_temp	min_temp	max_temp
10160	Seoul	2020-05-12	14.3	10.5	18.9
10110	Seoul	2020-05-12	14.3	10.5	18.9
10090	Seoul	2020-05-12	14.3	10.5	18.9
10100	Seoul	2020-05-12	14.3	10.5	18.9
10120	Seoul	2020-05-12	14.3		
10050	Seoul	2020-05-12	14.3		
10180	Seoul	2020-05-12	14.3		
10200	Seoul	2020-05-12	14.3		
12070	Daegu	2020-05-12	20.2		
12020	Daegu	2020-05-12	20.2		
14070	Incheon	2020-05-12	14.1		
14040	Incheon	2020-05-12	14.1		
50030	Jeollabuk-do	2020-05-12	16		
20130	Gyeonggi-do	2020-05-12	14.1		
20280	Gyeonggi-do	2020-05-12	14.1		
11080	Busan	2020-05-12	18.2		
11040	Busan	2020-05-12	18.2		
16050	Ulsan	2020-05-12	19.9		
16020	Ulsan	2020-05-12	19.9		
61010	Gyeongsangnam-do	2020-05-12	18.7		
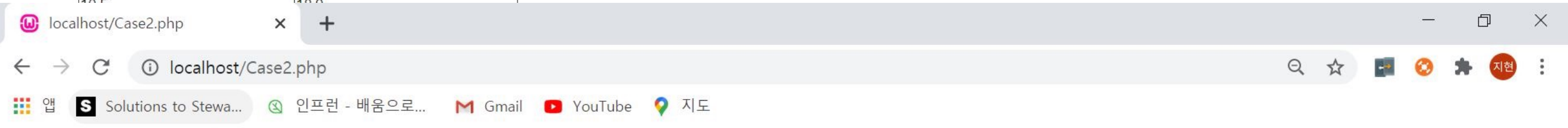
Province를 선택하세요.

Gangwon-do ▽ submit1

Case Info table (Currently 5) infection cases in database which province is Gangwon-do

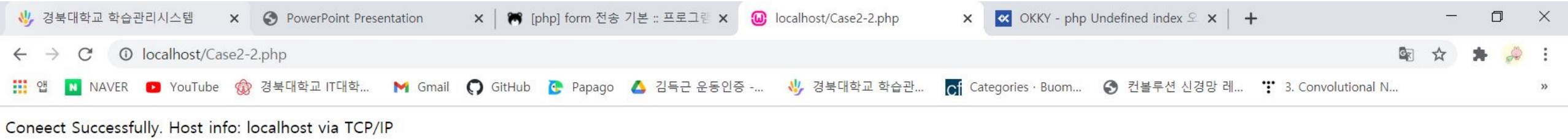*** Gangwon-do지역의 감염 케이스들 중 확진자 수를 알고싶은 케이스를 선택하세요.**

etc ▽ submit2

Gangwon-do 지역에서 발생한 감염 케이스 overseas inflow 로 인한 총 확진자 수 : 16 명 입니다.

case_id	province	city	infection_group	infection_case	confirmed	latitude	longitude
3000008	Gangwon-do	Gangneung-si	0	etc	7		
3000001	Gangwon-do	Chuncheon-si	1	Shincheonji Church	17		
3000006	Gangwon-do	Gangneung-si	0	overseas inflow	16		
3000007	Gangwon-do	Wonju-si	0	contact with patient	0		
3000004	Gangwon-do	Chuncheon-si	1	Richway	4		

Inuk Jung 2021-2, Database (COMP322), KNU

내용 2 예시

내용3 예시

데이터베이스 팀 프로젝트 3주차 Patient_Weather

Coneect Successfully. Host info: localhost via TCP/IP

PatientWeather table (Currently 48) PatientWeathers in database

Wdate	Province	Avg_temp	Min_temp	Max_temp
2020-02-26	Seoul	6.4	2.8	10.4
2020-02-26	Gyeongsangnam-do	9	6.6	13.2
2020-02-26	Busan	9.5	6.8	14.1
2020-02-26	Chungcheongbuk-do	6.4	0.2	11.9
2020-02-26	Gyeongsangbuk-do	6.1	3.3	10.1
2020-02-26	Gyeonggi-do	5.6	1.1	11.4
2020-02-26	Daejeon	8	4.2	14.7
2020-02-26	Ulsan	8.5	6.5	10.7
2020-02-26	Chungcheongnam-do	5.4	0.4	11.6
2020-02-28	Gyeonggi-do	4.6	2.9	5.7
2020-02-28	Gyeongsangnam-do	5.1	3.4	7.5
2020-02-28	Seoul	4.5	3.6	5.9
2020-02-28	Busan	6.9	4.8	8.9
2020-02-28	Gyeongsangbuk-do	3.9	-1.4	8.5
2020-02-28	Incheon	4.3	2.8	5.1
2020-02-28	Daejeon	5.1	3.7	6.7
2020-02-28	Chungcheongnam-do	4.7	1.5	7.8
2020-02-28	Jeollanam-do	6.9	6.4	7.9
2020-02-28	Ulsan	4.7	1.5	8.4
2020-03-01	Seoul	5.8	3.2	10.1
2020-03-01	Busan	10.8	7.2	15.6
2020-03-01	Incheon	5.1	3.8	7.6
2020-03-01	Daejeon	6.3	2.6	11.8
2020-03-01	Gyeonggi-do	4.8	0.4	10.2
2020-03-01	Ulsan	9.4	5.2	12.5
2020-03-01	Gangwon-do	8	2.4	13.4
2020-03-01	Chungcheongnam-do	4.7	-0.1	7.6

3월 Province

검색 1월 지역 load

select Province, count(*) from patientinfo where confirmed_date between '2020-3-01' and '2020-3-31' group by Province

Province	Count
Busan	43
Chungcheongbuk-do	33
Chungcheongnam-do	67
Daegu	7
Daejeon	23
Gangwon-do	31
Gwangju	15
Gyeonggi-do	417
Gyeongsangbuk-do	740
Gyeongsangnam-do	41
Incheon	64
Jeju-do	7
Jeollabuk-do	8
Jeollanam-do	10
Sejong	38
Seoul	392
Ulsan	20

Connected Successfully. Host info: localhost via TCP/IP

데이터베이스 팀 프로젝트 3주차 3번

Group_Affected_Teenagers table: Currently 13 group-infected teenaged patients in database

Province	City	Patient_id	Age	Infection_Case	Elementary_school_count	Infection_Group
Seoul	Nowon-gu	1000000079	10s	Seongdong-gu APT	42	1
Seoul	Nowon-gu	1000000087	10s	Seongdong-gu APT	42	1
Seoul	Dongdaemun-gu	1000000268	10s	Dongan Church	21	1
Seoul	Mapo-gu	1000000286	10s	Guro-gu Call Center	22	1
Seoul	Mapo-gu	1000000287	10s	Guro-gu Call Center	22	1
Busan	Gangseo-gu	1100000021	10s	Onchun Church	17	1
Busan	Dongnae-gu	1100000001	10s	Onchun Church	22	1
Busan	Dongnae-gu	1100000015	10s	Onchun Church	22	1
Ulsan	Buk-gu	1600000009	10s	Shincheonji Church	22	1
Gyeonggi-do	Bucheon-si	2000000808	10s	Coupang Logistics Center	64	1
Gyeongsangnam-do	Jinju-si	6100000003	10s	Shincheonji Church	45	1
Gyeongsangnam-do	Jinju-si	6100000004	10s	Shincheonji Church	45	1
Gyeongsangnam-do	Changnyeong-gun	6100000071	10s	Changnyeong Coin Karaoke	17	1

3월 Age

검색 1월 지역 load

select Age, count(*) from patientinfo where confirmed_date between '2020-3-01' and '2020-3-31' group by Age

Age	Count
	1
0s	31
100s	1
10s	89
20s	462
30s	227
40s	268
50s	384
60s	216
70s	116
80s	117
90s	44

DO YOUR BEST!