

# Database (EEC4408)

## Week 12 practice

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Prof. Wonik Choi

# Week 12 practice

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## ○ 로그인 구현

- Cookie
  - 웹 서버가 브라우저에게 보내어 저장했다가 서버의 요청이 있을 때 보내는 문자열
  - 브라우저의 정보가 담김 텍스트 파일
  - ID 정보 저장, 최근 검색 정보 추천, 장바구니 저장 등
- Session
  - 쿠키가 브라우저에 노출되는 보안문제를 해결하기 위해 사용
  - Client <-> Server 간 통신을 통해 사용자 식별

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## ○ Package 설치

- 서버 재시작시 브라우저 자동 재실행
  - npm install livereload connect-livereload
- Cookie 및 Session package 설치
  - npm install cookie-parser express-session

# Week 12 practice

## ○ 인하대학교 수강신청 페이지 shallow copy

Information on transitional measures related to 2021 curriculum reform (required for student numbers prior to 2020) -> View details

Main course registration schedule for the 2nd semester of 2023		Date	detail			
Course information	+ Course information	2023. 7. 22 (Fri) 10:00 ~ 7. 26 (Tue) 16:00	Priority course registration date			
		2023. 8. 10 (Wed) 10:00 ~ 16:00	Major, required course registration (possible to take courses in engineering and software convergence colleges; no retakes, limited number of students per grade)			
Lecture diagnosis	+ Lecture diagnosis	2023. 8. 11 (Thursday) 10:00 ~ 16:00	Major, required course registration (can take courses at colleges and universities except engineering and software convergence colleges; restrictions are the same as above)			
		2023. 8. 17 (Wed) 10:00 ~ 13:00	General course registration (re-enrollment is not allowed, number of students limited by grade)			
Enrolment	+ Enrolment	2023. 8. 17 (Wed) 14:00 ~ 16:00	General course registration (re-enrollment possible, no limit on number of students by grade)			
		August 29, 2023 (Monday)	2023-2nd semester begins			
Grade confirmation	+ Grade confirmation	2023. 9. 2 (Fri) 08:30 ~ 19:00	Course registration change date			
		2023. 9. 26 (Mon) 09:00 ~ 9. 28 (Wed) 24:00	Course withdrawal period			
Seasonal semester	+ Seasonal semester					
Notice regarding course registration						
Subject inquiry	+ Subject inquiry	number	attach	title	Registration date	
		3150		[Undergraduate] Notice on allowing pop-ups when registering for courses	2020-01-20	Administrator
Reference Link	+ Reference Link	3061		[Undergraduate] Information on restrictions on taking classes between professors' children	2019-07-22	Administrator
		2926		Notice on changes to additional 3 credits conditions for course registration (applies from 2018-1st semester course registration)	2018-07-25	Administrator
		3318		[For undergraduate students] Notice on implementation of 2021 statutory compulsory education (online education)	2021-01-13	Gender Equality Counseling Center
		3023		Information on course credits (21 credits) for new students in the College of Engineering and College of Natural Sciences (applicable from freshmen in 2019)	2019-02-19	Administrator
		3598		[Frontier College] Information on transitional measures following the reorganization of the liberal arts curriculum for the 2021 school year (basic liberal arts/core liberal arts)	2022-07-26	Frontier Undergraduate University Administration
		3616		[Undergraduate] Information on 2nd canceled courses for the 2nd semester of the 2022 academic year	2022-09-05	Administrator
		3615		[Future Automobile Business Group] Notice on changes to Object-Oriented Programming (FVE3010-001) classroom	2022-08-31	Future Automobile Business Division
		3614		[Department of Business Administration] BUS3204-005 Human Resource Management Timetable Change Notice	2022-08-26	Business Administration
		3613		[English Education Department] Notice on classroom changes for the 2nd semester of 2022	2022-08-26	English Education Department

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## ○ 인하대학교 수강신청 페이지 shallow copy

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Course registration for the 2nd semester of 2023

**Course completion list**

Id	Course	Professor	Opening Departments	Maximum participants
1	Database	Wonik Choi	Information and Communication Engineering	74
2	Signals and Systems	Wonik Choi2	Information and Communication Engineering	54

**Course List (Registration)**

Id	Course	Professor	Opening Departments	Maximum participants	Remaining participants	Apply
1	Database	Wonik Choi	Information and Communication Engineering	74	73	<input type="button" value="Apply"/>
2	Signals and Systems	Wonik Choi2	Information and Communication Engineering	54	53	<input type="button" value="Apply"/>
3	Operating System	Wonik Choi3	Information and Communication Engineering	47	47	<input type="button" value="Apply"/>
4	Telecommunications	Wonik Choi4	Information and Communication Engineering	62	62	<input type="button" value="Apply"/>
5	Data Structures	Wonik Choi	Information and Communication Engineering	0	0	<input type="button" value="Apply"/>

# Week 12 practice

<https://github.com/leesw9501/Database/tree/main/week11>

## Select.js

```
1 import express from "express";
2 // TODO
3 // sql import
4
5 const router = express.Router();
6
7 router.get('/', async function (req, res) {
8     // TODO
9
10    if (req.cookies.user) {
11        res.render('select', { user: req.cookies.user });
12    } else {
13        res.render('/')
14    }
15});
16
17 router.post('/', async(req, res) => {
18     // TODO
19     const data = {
20         cId: req.body.applyBtn,
21         sId: req.cookies.user,
22     };
23 });
24
25 module.exports = router;
```

## sql.js

```
1 import mysql from "mysql2";
2
3 const pool = mysql.createPool(
4     process.env.JAWSDB_URL ?? {
5         host: 'localhost',
6         user: 'root',
7         database: 'WEEK11_INHA_DB',
8         password: '',
9         waitForConnections: true,
10        connectionLimit: 10,
11        queueLimit: 0
12    }
13);
14
15 // async / await 사용
16 const promisePool = pool.promise();
17
18 // selec query
19 export const selectSql = {
20     getUsers: async () => {
21         const [rows] = await promisePool.query(`select * from student`);
22         return rows;
23     },
24     //TODO
25 }
26
27 export const createSql = {
28     addClass: async (data) => {
29         const uid = await promisePool.query(`select Id from Student where StudentId=${data.sId}`);
30         console.log(uid);
31         const results = await promisePool.query (
32             `insert into class_student values (${uid[0][0].Id}, ${data.cId})`);
33         return results[0];
34     }
35 }
36 }
```

# Week 12 assignment

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- STEP1: 로그인 했을 경우에 ‘Enrolment’를 클릭하면 수강신청 페이지로 이동
- STEP2: Apply 버튼으로 수강신청 할 수 있는 기능 구현
  - 버튼을 눌렀을 경우 DB에 학생이 수강신청한 내용이 반영되도록 업데이트 할 것
  - Remaining participants가 0이면 수강신청 안되어 함
  - Course completion list에 있는 수업은 수강신청 안되어 함
- 보고서
  - 개요/상세구현내용/결과화면/결론
  - 제출할 때 소스코드(node\_modules 제외)와 보고서를 압축해서 같이 제출할 것
  - 제출마감(25.11.24 00:00:00)