

[11주차 - 강의 예제]

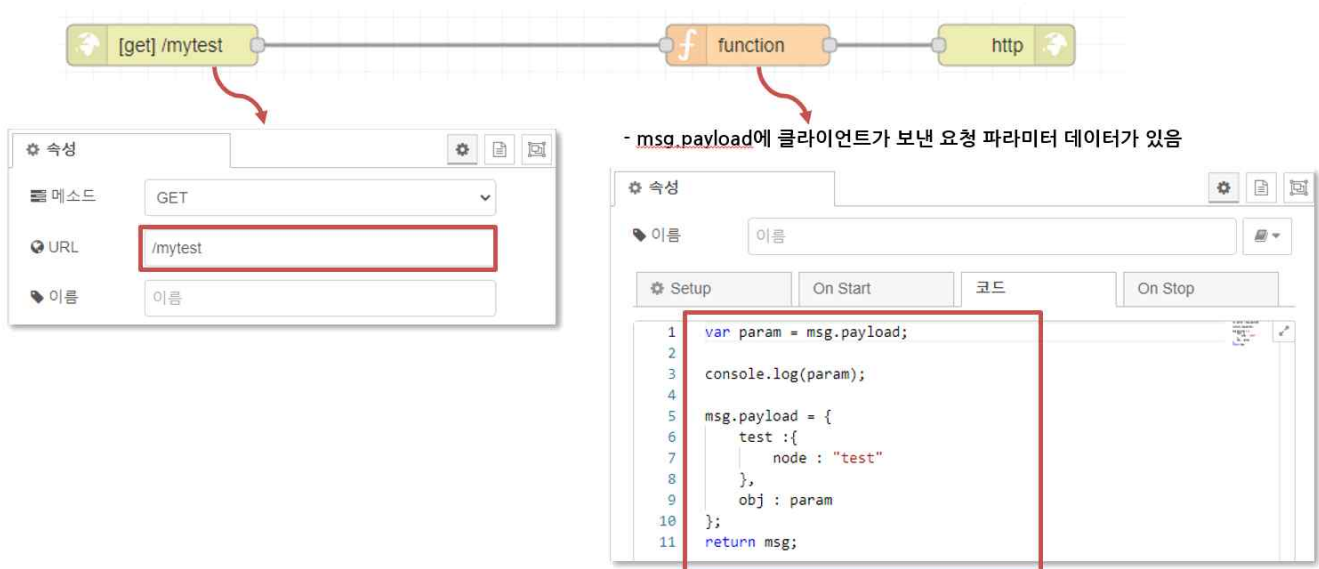
● 수업 깃허브 경로

<https://github.com/topmentor/JSClass>

● 실습파일 제출 요령

- 1) 실습파일들은 1개 파일로 압축해서 첨부 (파일명은 학번.zip)
- Node-Red 실습은 '내보내기' 메뉴에서 flows.json 파일로 다운로드 후 제출
- 2) **topmentor@daum.net** 이메일 작성
· 제목은 '학번 - 이름 x주차 실습'으로 지정
ex) [2021432345 홍길동] 11주차 실습

Node-Red 실습 - 1 ///////////////////////////////////////
- Node-red 편집



- ex1.html 작성

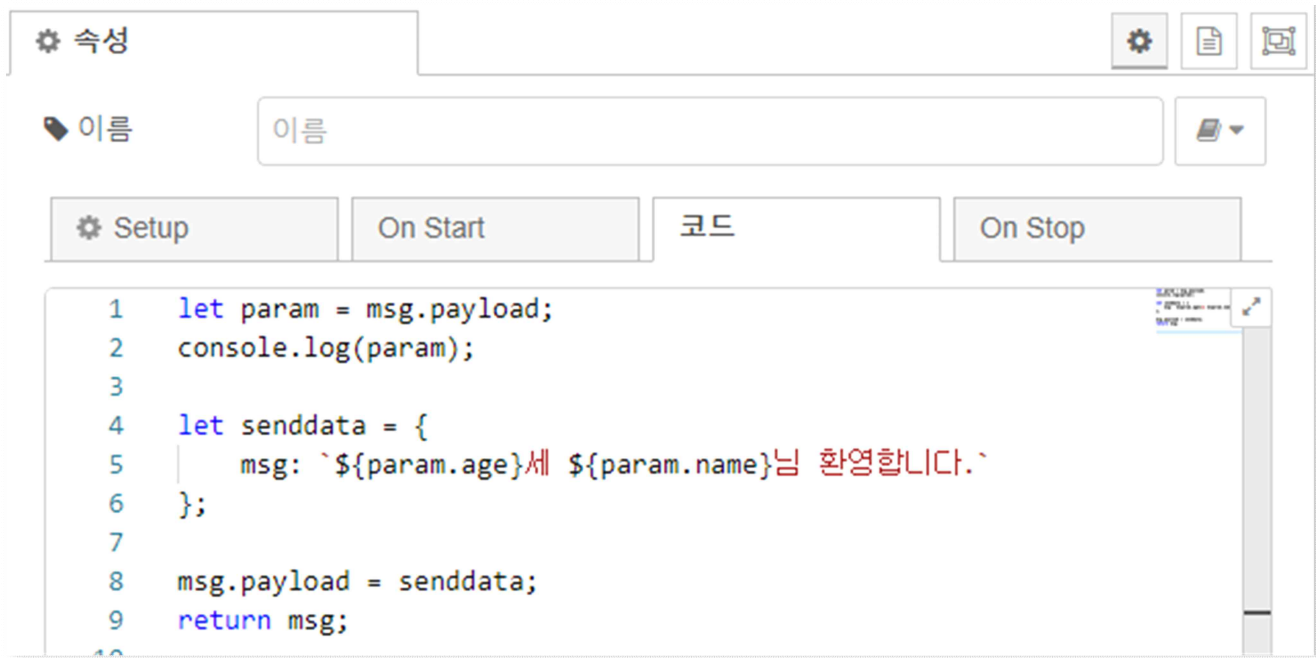
```
<script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
```

```
<script>
  $(document).ready(function () {
    myfunc();
  });

  function myfunc() {
    $.ajax({
      type : "GET",
      url  : "http://127.0.0.1:1880/mytest",
      data : { },
      dataType : "json",
      success : function (data) {
        console.log(data);
      },
      error : function () {
        alert("통신실패!!!!");
      }
    });
  }
}
```

```
</script>
```

- function 노드 수정



● Mysql 설치

1. mysql 설치

<https://downloads.mysql.com/archives/installer/>

- 버전은 5.7.xx 로 선택

MySQL Product Archives

MySQL Installer (Archived Versions)

Please note that these are old versions. New releases will have recent bug fixes and features!
To download the latest release of MySQL Installer, please visit MySQL Downloads.

Product Version: 5.7.38
Operating System: Microsoft Windows

Windows (x86, 32-bit), MSI Installer	Apr 6, 2022
(mysql-installer-web-community-5.7.38.0.msi)	
Windows (x86, 32-bit), MSI Installer	Apr 6, 2022
(mysql-installer-community-5.7.38.0.msi)	

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

2. workbench 설치

<https://downloads.mysql.com/archives/workbench/>

- 버전은 6.3.xx 로 선택

MySQL Product Archives

MySQL Workbench (Archived Versions)

Please note that these are old versions. New releases will have recent bug fixes and features!
To download the latest release of MySQL Workbench, please visit MySQL Downloads.

Product Version: 5.2.47
Operating System: Microsoft Windows

Windows (x86, 32-bit), MSI Installer	Feb 15, 2013
(mysql-workbench-gpl-5.2.47-win32.msi)	
Windows (x86, 32-bit), ZIP Archive	Feb 15, 2013
(mysql-workbench-gpl-5.2.47-win32-noninstall.zip)	

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

사용자 만들기

1. 커맨드 창 띄우기

2. mysql 실행

```
cd C:\Program Files\MySQL\MySQL Server 5.7\bin
mysql -u root -p
[암호 입력]
```

3. 유저 생성

use mysql

```
CREATE USER 'user1'@'localhost' IDENTIFIED BY 'user123';
CREATE USER 'user1'@'%' IDENTIFIED BY 'user123';
```

```
grant all privileges on *.* to user1@'%' identified by 'user123';
grant all privileges on *.* to user1@'localhost' identified by 'user123';
```

flush privileges;

4. 생성 확인

```
select user, host from user;
```

Mysql 실습 //////////////////////////////////////

*** 실습데이터 import**

- <https://github.com/topmentor/JSClass> 에서 'data 폴더에 'edu_data.sql' 다운로드
- Workbench에서 import

SELECT * FROM city WHERE Population > 700000;

SELECT Name, Population FROM city WHERE Population > 700000;

SELECT * FROM city WHERE Population >= 100000 AND Population >= 700000 ;

SELECT * FROM city WHERE name LIKE 'Over%';

SELECT * FROM city ORDER BY population DESC LIMIT 4;

INSERT INTO city (Name, CountryCode, Population) VALUES ('Seoul', 'KOR', 10000000);

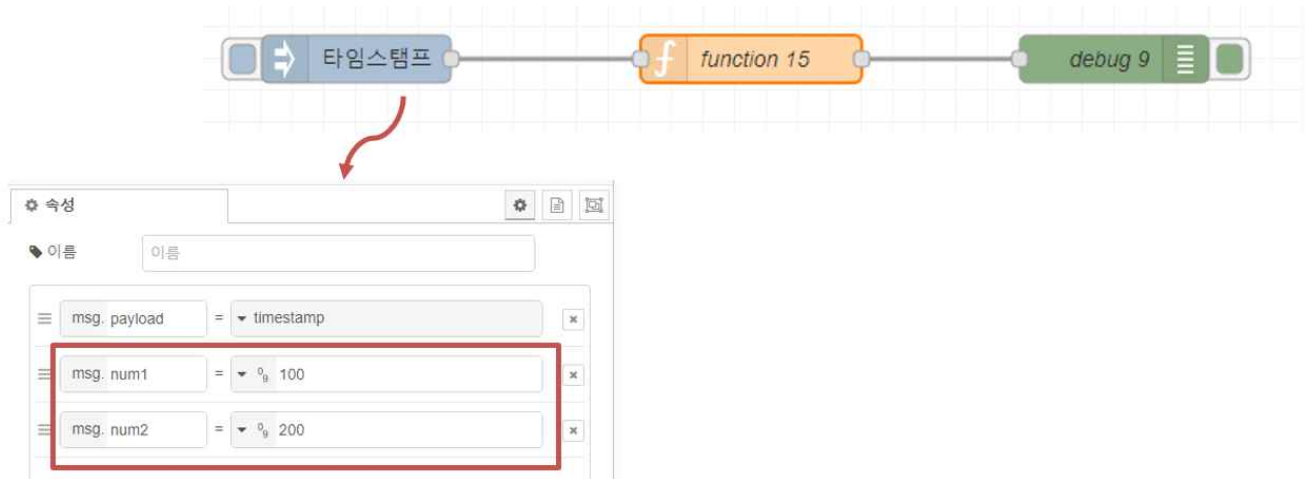
INSERT INTO city (Name, CountryCode, Population) VALUES
('Busan', 'KOR', 5000000),
('Daejeon', 'KOR', 4000000);

DELETE FROM city WHERE Name = 'Busan';

UPDATE city SET Population = 11000000 WHERE Name = 'Seoul';

[프로그래밍 실습 문제]

1. inject 노드에서 2개의 숫자를 받고 function 노드에서 두 수를 더한 결과를 debug 노드에서 출력하도록 노드를 구성하시오.



2. 클라이언트(웹페이지)에서 2개의 숫자를 받고 두 수를 더한 결과를 돌려주는 REST API 노드를 구성하시오.

