preocedure - 메서드와 비슷한 기능

프로시저 목록 확인 방법

show procedure status;

프로시저 확인 방법

show create procedure 프로시저명;

declare - 지역변수를 선언하는 명령어

프로시저 정의 방법

DROP PROCEDURE IF EXISTS search\_user; -> search\_user라는 이름의 프로시저가 있다면 지운다

DELIMITER // -> delimiter 후 기호를 쓰면 해당 기호를 한번 더 만날 때까지 실행하지 않는다

CREATE PROCEDURE search\_user() -> search\_user라는 이름의 프로시저를 생성

BEGIN

SELECT USER,HOST FROM MYSQL.USER; -> 해당 쿼리문을 실행하는 기능

END // -> 앞에서 쓴 //를 만났으므로 실행된다

DELIMITER ;

show procedure status; -> 현재 프로시저를 확인

if 사용법

SET total = in\_mid + in\_end + in\_att + in\_rep; -> 변수 선언

IF total >= 95 AND total <= 100 THEN SET grade = 'A+';

END IF;

IF total >=90 AND total < 95 THEN SET grade = 'A';

END IF;

else if 사용법

SET total = in\_mid + in\_end + in\_att + in\_rep; -> 변수 선언

IF total >= 95 AND total <= 100 THEN

SET grade = 'A+';

ELSE

IF total >= 90 THEN

SET grade = 'A';

END IF;

END IF;

학점을 계산하는 프로시저 생성

DROP PROCEDURE IF EXISTS calculate\_grade;

DELIMITER //

CREATE PROCEDURE calculate\_grade(

IN in\_mid DOUBLE,

IN in\_end DOUBLE,

IN in\_att INT,

IN in\_rep INT,

IN in\_class\_num INT,

IN in\_student\_num INT)

BEGIN

DECLARE total DOUBLE DEFAULT 0;

DECLARE grade VARCHAR(2);

SET total = in\_mid + in\_end + in\_att + in\_rep;

IF total >= 95 AND total <= 100 THEN

SET grade = 'A+';

END IF;

IF total >=90 AND total < 95 THEN

SET grade = 'A';

END IF;

IF total >=85 AND total < 90 THEN

SET grade = 'B+';

END IF;

IF total >=80 AND total < 85 THEN

SET grade = 'B';

END IF;

IF total >=75 AND total < 80 THEN

SET grade = 'C+';

END IF;

IF total >=70 AND total < 75 THEN

SET grade = 'C';

END IF;

IF total >=65 AND total < 70 THEN

SET grade = 'D+';

END IF;

IF total >=60 AND total < 65 THEN

SET grade = 'D';

END IF;

IF total >=0 AND total < 60 THEN

SET grade = 'F';

END IF;

UPDATE

university.course

SET

course\_mid = in\_mid,

course\_end = in\_end,

course\_report = in\_rep,

course\_attendance = in\_att,

course\_total = total,

course\_grade = grade

WHERE course\_student\_num = in\_student\_num

AND

course\_class\_num = in\_class\_num

AND

course\_num >= 1;

END //

DELIMITER ;

프로시져 호출 방법

call 프로시저명(컬럼값);

->call calculate\_grade(35,30,10,10,2,201910101);

예제) graduation 테이블에서 학생 정보가 주어졌을 때 graduation\_check에 값을 결정하는 프로시저 작성

USE university;

DROP PROCEDURE IF EXISTS update\_graduation;

DELIMITER //

CREATE PROCEDURE update\_graduation(

in in\_student\_num INT,

In in\_requirement\_num Int)

BEGIN

DECLARE s\_english, r\_english INT;

DECLARE s\_project, r\_project VARCHAR(3);

DECLARE s\_paper, r\_paper VARCHAR(3);

DECLARE s\_test, r\_test VARCHAR(3);

DECLARE s\_certificate, r\_certificate VARCHAR(3);

SET s\_english = (SELECT graduation\_english FROM graduation WHERE graduation\_student\_num = in\_student\_num);

SET s\_project = (SELECT graduation\_project FROM graduation WHERE graduation\_student\_num = in\_student\_num);

SET s\_paper = (SELECT graduation\_paper FROM graduation WHERE graduation\_student\_num = in\_student\_num);

SET s\_test = (SELECT graduation\_test FROM graduation WHERE graduation\_student\_num = in\_student\_num);

SET s\_certificate = (SELECT graduation\_certificate FROM graduation WHERE graduation\_student\_num = in\_student\_num);

SET r\_english = (SELECT requirement\_english FROM requirement WHERE requirement\_num = in\_requirement\_num);

SET r\_project = (SELECT requirement\_project FROM requirement WHERE requirement\_num = in\_requirement\_num);

SET r\_paper = (SELECT requirement\_paper FROM requirement WHERE requirement\_num = in\_requirement\_num);

SET r\_test = (SELECT requirement\_test FROM requirement WHERE requirement\_num = in\_requirement\_num);

SET r\_certificate = (SELECT requirement\_certificate FROM requirement WHERE requirement\_num = in\_requirement\_num);

IF r\_english <= s\_english

AND ( r\_paper = 'N' || (r\_paper = 'Y' AND s\_paper='Y') )

AND ( r\_test = 'N' || (r\_test = 'Y' AND s\_test='Y') )

AND ( r\_project = 'N' || (r\_project = 'Y' AND s\_project='Y') )

AND ( r\_certificate = 'N' || (r\_certificate = 'Y' AND s\_certificate='Y') ) THEN

UPDATE graduation

SET graduation\_ok = 'Y'

WHERE graduation\_student\_num = in\_student\_num;

ELSE

UPDATE graduation

SET graduation\_ok = 'N'

WHERE graduation\_student\_num = in\_student\_num;

END IF;

END //

DELIMITER ;