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| 요구사항번호 | B-04 | 작성일 | 2022-05-20 |
| 요구사항명 | 과정 수료 처리 | 작성자 | 임종운 |
| DML | | | |
| SELECT      s.seq, m.name, s.drop\_out, s.drop\_out\_date  FROM open\_curs oc      INNER JOIN student s ON oc.seq = s.open\_curs\_seq      INNER JOIN member m ON s.member\_seq = m.seq  WHERE oc.seq = 12;  CREATE OR REPLACE PROCEDURE change\_complete\_date\_P(       course\_seq in  number,  -- 수료 완료과정       complete\_date  in date  )  AS  BEGIN      UPDATE student s SET s.drop\_out = '수료', s.drop\_out\_date = complete\_date      WHERE          EXISTS(              SELECT \*              FROM member m              WHERE s.member\_seq = m.seq              AND s.open\_curs\_seq = course\_seq          )          AND          (s.drop\_out IS NULL          OR          s.drop\_out<>'중도탈락');  END;  /  --과정번호, 수료일자 입력  EXECUTE change\_complete\_date\_P(12, '2022-05-29'); | | | |

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| 요구사항번호 | B-04 | 작성일 | 2022-05-20 |
| 요구사항명 | 과정 등록인원 출력 | 작성자 | 임종운 |
| DML | | | |
| CREATE OR REPLACE TYPE curs\_member\_obj AS OBJECT(      name varchar2(50),      ssn varchar2(50),      tel varchar2(50),      regdate date,      drop\_out varchar2(15)  );  /  CREATE OR REPLACE TYPE member\_tables AS TABLE OF curs\_member\_obj;  /  CREATE OR REPLACE FUNCTION curs\_member\_list\_F  (      input\_curs\_seq NUMBER  ) RETURN member\_tables  IS      v\_rtn member\_tables;  BEGIN      SELECT          curs\_member\_obj(rs.name, rs.ssn, rs.tel, rs.regdate, rs.drop\_out)          BULK COLLECT INTO v\_rtn      FROM (SELECT          m.name, m.ssn, m.tel, s.regdate, s.drop\_out      FROM (SELECT \*      FROM open\_curs oc      WHERE seq = input\_curs\_seq) rs      --seq가 확일할 과정 번호          INNER JOIN enrollment e ON rs.seq = e.open\_curs\_seq          INNER JOIN member m ON e.member\_seq = m.seq          INNER JOIN student s ON m.seq = s.member\_seq) rs;        RETURN v\_rtn;    END curs\_member\_list\_F;  /  DROP TYPE member\_tables;  DROP TYPE curs\_member\_obj;  DROP FUNCTION curs\_member\_list;  SELECT \* FROM TABLE(curs\_member\_list\_F(12)); | | | |

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| 요구사항번호 | B-05 | 작성일 | 2022-05-20 |
| 요구사항명 | 개설 과정의 과목 정보 출력 | 작성자 | 임종운 |
| DML | | | |
| CREATE OR REPLACE TYPE curs\_info\_obj AS OBJECT(      subject\_name varchar2(50),      begin\_date date,      end\_date date,      subject varchar2(100),      name varchar2(15)  );  /  CREATE OR REPLACE TYPE curs\_info\_tables AS TABLE OF curs\_info\_obj;  /  CREATE OR REPLACE FUNCTION search\_curs\_info\_list\_F  (      input\_curs\_seq NUMBER  ) RETURN curs\_info\_tables  IS      v\_rtn curs\_info\_tables;  BEGIN        SELECT          curs\_info\_obj(info.subject\_name, info.begin\_date, info.end\_date, info.subject, info.name)          BULK COLLECT INTO v\_rtn      FROM (SELECT          s.subject\_name, os.begin\_date, os.end\_date, b.subject ,t.name      FROM (SELECT seq  FROM open\_curs oc WHERE seq = 1) sr          INNER JOIN open\_subject os ON sr.seq = os.open\_curs\_seq          INNER JOIN subject s ON os.subject\_seq = s.seq          INNER JOIN subject\_book sb ON s.seq = sb.subject\_seq          INNER JOIN book b ON sb.book\_seq = b.seq          INNER JOIN teacher t ON os.teacher\_seq = t.seq) info;        RETURN v\_rtn;    END search\_curs\_info\_list\_F;  /  DROP TYPE curs\_info\_obj;  DROP TYPE curs\_info\_tables;  DROP FUNCTION search\_curs\_info\_list\_F;  SELECT \* FROM TABLE(search\_curs\_info\_list\_F(12)); | | | |

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| 요구사항번호 | D-06 | 작성일 | 2022-05-20 |
| 요구사항명 | 주로젝트 제목 검색기능 | 작성자 | 임종운 |
| DML | | | |
| CREATE OR REPLACE TYPE study\_obj AS OBJECT(      topic varchar2(50),      study\_name varchar2(50),      study\_description varchar2(150),      name varchar(20),      email varchar2(50),      tel varchar2(15),      begin\_date date,      end\_date date,      completement varchar2(5)  );  /  CREATE OR REPLACE TYPE study\_tables AS TABLE OF study\_obj;  /  CREATE OR REPLACE FUNCTION study\_list\_F  (      input\_topic\_or\_description varchar2  ) RETURN study\_tables  IS      v\_rtn study\_tables;  BEGIN      SELECT          study\_obj(rs.topic, rs.study\_name, rs.study\_description, rs.name, rs.email, rs.tel, rs.begin\_date, rs.end\_date, rs.completement)          BULK COLLECT INTO v\_rtn      FROM (SELECT          st.topic, sr.study\_name, sr.study\_description, m.name, sr.email, m.tel, sr.begin\_date, sr.end\_date, sr.completement      FROM study\_recruit sr          INNER JOIN study\_topic st ON sr.study\_topic\_seq = st.seq          INNER JOIN student s ON s.seq = sr.student\_seq          INNER JOIN member m ON s.member\_seq = m.seq      WHERE          sr.study\_name LIKE '%'||input\_topic\_or\_description||'%') rs;        RETURN v\_rtn;    END study\_list\_F;  /  DROP TYPE study\_tables;  DROP TYPE study\_obj;  DROP FUNCTION study\_list\_F;  --스터디 제목으로 검색 -- 공백입력시 전체 스터디 모집내역 출력됨.  SELECT \* FROM TABLE(study\_list\_F('웹')); | | | |