TRIGGER

▶ TRIGGER

테이블이나 뷰가 INSERT, UPDATE, DELETE 등의 DML문에 의해 변경될 경우 자동으로 실행될 내용을 정의하여 저장하는 객체

✓ **예시**

```
CREATE OR REPLACE TRIGGER TRG_01
AFTER INSERT
ON EMPLOYEE
BEGIN
        DBMS_OUTPUT.PUT_LINE('신입사원이 입사했습니다.');
END;
/

INSERT INTO EMPLOYEE VALUES (905, '길성춘', '690512-1151432',
                            'gil_sj@kh.or.kr', '01035464455', 'D5', 'J3',
                            'S5', 3000000, 0.1, 200, SYSDATE, NULL,
                            DEFAULT);
```
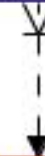
1 행 이(가) 삽입되었습니다.

신입사원이 입사 했습니다.   **트리거 실행 확인**

▶ TRIGGER

✓ 예시1

EMPLOYEE.PRO_DETAIL

P *	DCODE	NUMBER
F	PCODE	NUMBER
	PDATE	DATE
	AMOUNT	NUMBER
	STATUS	VARCHAR2 (10 BYTE)

🔑 PRO_DETAIL_PK (DCODE)

🔑 SYS_C007363 (PCODE)

EMPLOYEE.PRODUCT

P *	PCODE	NUMBER
	PNAME	VARCHAR2 (30 BYTE)
	BRAND	VARCHAR2 (30 BYTE)
	PRICE	NUMBER
	STOCK	NUMBER

🔑 PRODUCT_PK (PCODE)

```
CREATE TABLE PRODUCT(
        PCODE NUMBER PRIMARY KEY,
        PNAME VARCHAR2(30),
        BRAND VARCHAR2(30),
        PRICE NUMBER,
        STOCK NUMBER DEFAULT 0
);

CREATE TABLE PRO_DETAIL(
        DCODE NUMBER PRIMARY KEY,
        PCODE NUMBER,
        PDATE DATE,
        AMOUNT NUMBER,
        STATUS VARCHAR2(10) CHECK (STATUS IN ('입고', '출고')),
        FOREIGN KEY (PCODE) REFERENCES PRODUCT(PCODE)
);
```

▶ TRIGGER

✓ **예시1**

CREATE SEQUENCE SEQ_PCODE;

CREATE SEQUENCE SEQ_DCODE;

SQL | 인출된 모든 행: 3(0초)

	PCODE	PNAME	BRAND	PRICE	STOCK
1	1	갤럭스노트8	삼송	900000	0
2	2	아이뽀8	사과	1000000	0
3	3	대륙폰	샤우미	600000	0

INSERT INTO PRODUCT

VALUES(SEQ_PCODE.NEXTVAL, '갤럭스노트8', '삼송', 900000, DEFAULT);

INSERT INTO PRODUCT

VALUES(SEQ_PCODE.NEXTVAL, '아이뽀8', '사과', 1000000, DEFAULT);

INSERT INTO PRODUCT

VALUES(SEQ_PCODE.NEXTVAL, '대륙폰', '샤우미', 600000, DEFAULT);

▶ TRIGGER

✓ **예시1**

```
CREATE OR REPLACE TRIGGER TGR_02
AFTER INSERT ON PRO_DETAIL
     FOR EACH ROW
          BEGIN
                 IF :NEW.STATUS = '입고'
                 THEN
                        UPDATE PRODUCT SET STOCK = STOCK + :NEW.AMOUNT
                        WHERE PCODE = :NEW.PCODE;
                 END IF;


                 IF :NEW.STATUS = '출고'
               THEN
                        UPDATE PRODUCT SET STOCK = STOCK - :NEW.AMOUNT
                        WHERE PCODE = :NEW.PCODE;
                 END IF;
END;
/
```

Trigger TGR_02이(가) 컴파일되었습니다.

▶ TRIGGER

✓ 예시1

INSERT INTO PRO_DETAIL VALUES (SEQ_DCODE.NEXTVAL,1, SYSDATE, 5, '입고');

INSERT INTO PRO_DETAIL VALUES (SEQ_DCODE.NEXTVAL,2, SYSDATE, 10, '입고');

INSERT INTO PRO_DETAIL VALUES (SEQ_DCODE.NEXTVAL,3, SYSDATE, 20, '입고');

INSERT INTO PRO_DETAIL VALUES (SEQ_DCODE.NEXTVAL,1, SYSDATE, 1, '출고');

INSERT INTO PRO_DETAIL VALUES (SEQ_DCODE.NEXTVAL,2, SYSDATE, 7, '출고');

INSERT INTO PRO_DETAIL VALUES (SEQ_DCODE.NEXTVAL,3, SYSDATE, 11, '출고');

SQL | 인출된 모든 행: 6(0.016초)

	DCODE	PCODE	PDATE	AMOUNT	STATUS
1	1	1	17/09/27	5	입고
2	2	2	17/09/27	10	입고
3	3	3	17/09/27	20	입고
4	4	1	17/09/27	1	출고
5	5	2	17/09/27	7	출고
6	6	3	17/09/27	11	출고

SQL | 인출된 모든 행: 3(0초)

	PCODE	PNAME	BRAND	PRICE	STOCK
1	1	갤럭스노트8	삼성	900000	4
2	2	아이뽕8	사과	1000000	3
3	3	대륙폰	샤우미	600000	9