

1. Membuat program PL/SQL dengan menggunakan exception NO_DATA_FOUND.

```
Worksheet Query Builder
-- Elmo Allistair - 12118220
-- M8
-- 1
SET SERVEROUTPUT ON
ACCEPT p_empno PROMPT 'input no. pegawai : '
DECLARE
    CURSOR cur_peg IS SELECT * FROM emp2 WHERE empno = '&p_empno';
    peg cur_peg%rowtype;
BEGIN
    OPEN cur_peg;
    FETCH cur_peg INTO peg;
    IF cur_peg%notfound THEN
        RAISE NO_DATA_FOUND;
    END IF;
    IF cur_peg%found THEN
        UPDATE emp2 SET sal = sal*2 WHERE empno = '&p_empno';
        dbms_output.put_line('Success UPDATE pegawai emp = '||&p_empno);
    END IF;
    CLOSE cur_peg;
EXCEPTION
    WHEN NO_DATA_FOUND THEN
        dbms_output.put_line('DATA Tidak Ditemukan');
END;
```

Tabel emp2:

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	17-DEC-80	25600	(null)	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
4	7566	JONES	MANAGER	7839	02-APR-81	5950	(null)	20
5	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	(null)	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	(null)	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	3000	(null)	20
9	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
10	7876	ADAMS	CLERK	7788	23-MAY-87	1100	(null)	20
11	7900	JAMES	CLERK	7698	03-DEC-81	950	(null)	30
12	7902	FORD	ANALYST	7566	03-DEC-81	3000	(null)	20
13	7934	MILLER	CLERK	7782	23-JAN-82	1300	(null)	10

Output data ditemukan (Input: 7369)

```
Success UPDATE pegawai emp = 7369

PL/SQL procedure successfully completed.
```

Output data tidak ditemukan (Input: 7777)

```
DATA Tidak Ditemukan

PL/SQL procedure successfully completed.
```

2. Membuat program PL/SQL dengan menggunakan prosedur RAISE_APPLICATION_ERROR.

```

Worksheet  Query Builder
-- 2
SET SERVEROUTPUT ON
SET VERIFY OFF
ACCEPT p_empno PROMPT 'input no. pegawai :'
DECLARE
    cursOR cur_peg is SELECT * FROM emp2 WHERE empno = '&p_empno';
    peg cur_peg%rowtype;
BEGIN
    OPEN cur_peg;
    FETCH cur_peg INTO peg;
    IF cur_peg%found THEN
        UPDATE emp2 SET sal = sal*2 WHERE empno = '&p_empno';
        dbms_output.put_line('Success UPDATE pegawai emp = '||&p_empno);
    END IF;
    IF LENGTH(&p_empno) > 4 THEN
        RAISE_APPLICATION_ERROR(-20101, 'No. Pegawai Hanya 4 Digit');
    END IF;
    CLOSE cur_peg;
END;
/

```

Tabel emp2:

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	17-DEC-80	25600	(null)	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
4	7566	JONES	MANAGER	7839	02-APR-81	5950	(null)	20
5	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	(null)	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	(null)	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	3000	(null)	20
9	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
10	7876	ADAMS	CLERK	7788	23-MAY-87	1100	(null)	20
11	7900	JAMES	CLERK	7698	03-DEC-81	950	(null)	30
12	7902	FORD	ANALYST	7566	03-DEC-81	3000	(null)	20
13	7934	MILLER	CLERK	7782	23-JAN-82	1300	(null)	10

Input: 7369 (4 digit)

```

Success UPDATE pegawai emp = 7369

PL/SQL procedure successfully completed.

```

Input: 77777 (5 digit)

```

Error report -
ORA-20101: No. Pegawai Hanya 4 Digit
ORA-06512: at line 12

```