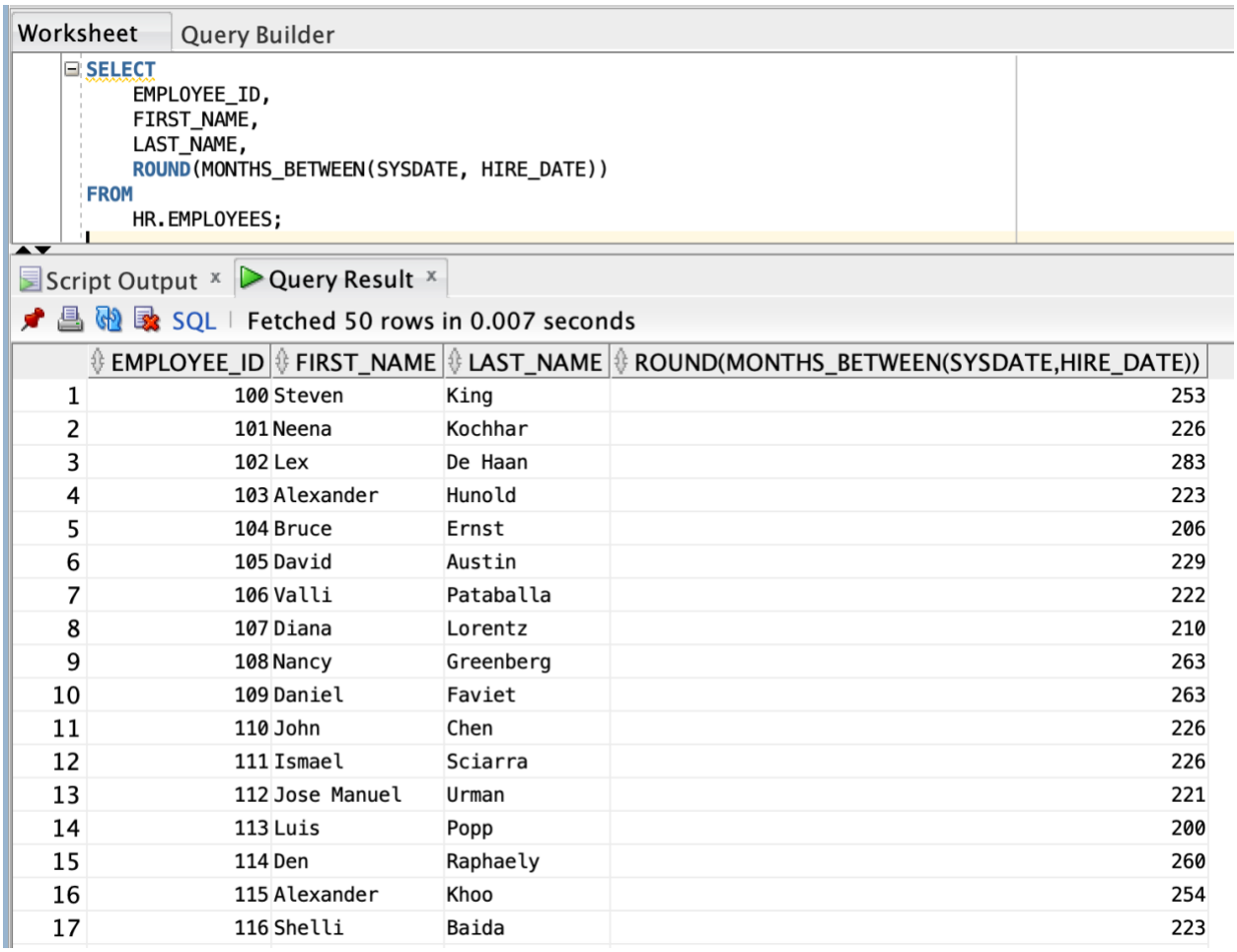
Exercise SQL02-EX-01:

Definiton : Write an SQL query that selects employee's id, employee's first name, employee's last name and employee's **number of months** from hire_date to today for all employees. (Hint:MONTHS_BETWEEN)

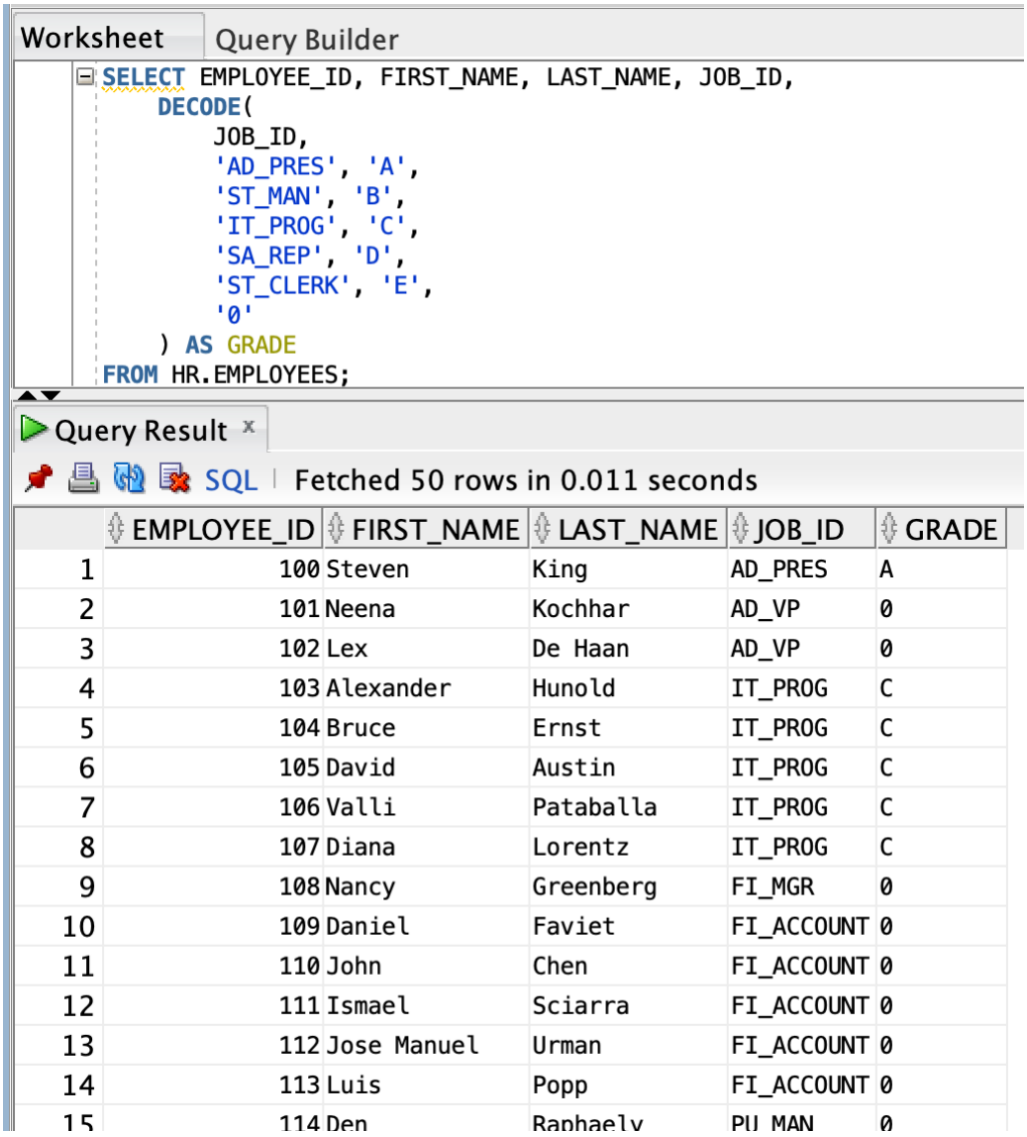


	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	ROUND(MONTHS_BETWEEN(SYSDATE,HIRE_DATE))
1	100	Steven	King	253
2	101	Neena	Kochhar	226
3	102	Lex	De Haan	283
4	103	Alexander	Hunold	223
5	104	Bruce	Ernst	206
6	105	David	Austin	229
7	106	Valli	Pataballa	222
8	107	Diana	Lorentz	210
9	108	Nancy	Greenberg	263
10	109	Daniel	Faviet	263
11	110	John	Chen	226
12	111	Ismael	Sciarra	226
13	112	Jose Manuel	Urman	221
14	113	Luis	Popp	200
15	114	Den	Raphaely	260
16	115	Alexander	Khoo	254
17	116	Shelli	Baida	223

Exercise SQL02-EX-02:

Definiton : Write a query that displays the grade of all employees based on the value of the column JOB_ID, using the following data: (Use DECODE)

Job	Grade
AD_PRES	A
ST_MAN	B
IT_PROG	C
SA_REP	D
ST_CLERK	E
None of the above	0



	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	JOB_ID	GRADE
1	100	Steven	King	AD_PRES	A
2	101	Neena	Kochhar	AD_VP	0
3	102	Lex	De Haan	AD_VP	0
4	103	Alexander	Hunold	IT_PROG	C
5	104	Bruce	Ernst	IT_PROG	C
6	105	David	Austin	IT_PROG	C
7	106	Valli	Pataballa	IT_PROG	C
8	107	Diana	Lorentz	IT_PROG	C
9	108	Nancy	Greenberg	FI_MGR	0
10	109	Daniel	Faviet	FI_ACCOUNT	0
11	110	John	Chen	FI_ACCOUNT	0
12	111	Ismael	Sciarra	FI_ACCOUNT	0
13	112	Jose Manuel	Urman	FI_ACCOUNT	0
14	113	Luis	Popp	FI_ACCOUNT	0
15	114	Den	Raphaely	PU_MAN	0

Exercise SQL02-EX-03:

Definiton : Write a query for SQL02-EX-02(previous question) with using **CASE WHEN.**

Worksheet | Query Builder

```
SELECT EMPLOYEE_ID, FIRST_NAME, LAST_NAME, JOB_ID,
    CASE
        WHEN JOB_ID = 'AD_PRES' THEN 'A'
        WHEN JOB_ID = 'ST_MAN' THEN 'B'
        WHEN JOB_ID = 'IT_PROG' THEN 'C'
        WHEN JOB_ID = 'SA_REP' THEN 'D'
        WHEN JOB_ID = 'ST_CLERK' THEN 'E'
        ELSE '0'
    END AS GRADE
FROM HR.EMPLOYEES;
```

Query Result

SQL | Fetched 50 rows in 0.014 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	JOB_ID	GRADE
1	100	Steven	King	AD_PRES	A
2	101	Neena	Kochhar	AD_VP	0
3	102	Lex	De Haan	AD_VP	0
4	103	Alexander	Hunold	IT_PROG	C
5	104	Bruce	Ernst	IT_PROG	C
6	105	David	Austin	IT_PROG	C
7	106	Valli	Pataballa	IT_PROG	C
8	107	Diana	Lorentz	IT_PROG	C
9	108	Nancy	Greenberg	FI_MGR	0
10	109	Daniel	Faviet	FI_ACCOUNT	0
11	110	John	Chen	FI_ACCOUNT	0
12	111	Ismael	Sciarra	FI_ACCOUNT	0
13	112	Jose Manuel	Urman	FI_ACCOUNT	0
14	113	Luis	Popp	FI_ACCOUNT	0
15	114	Den	Raphaely	PU_MAN	0

Exercise SQL02-EX-04:

Definiton : Write a query that displays the employee number and last name of all employees who work in a department with any employee whose last name contains a “i”.

Worksheet | Query Builder

```
SELECT EMPLOYEE_ID, LAST_NAME
FROM HR.EMPLOYEES
WHERE
    DEPARTMENT_ID IN (
        SELECT
            DISTINCT DEPARTMENT_ID
        FROM
            HR.EMPLOYEES
        WHERE
            LAST_NAME LIKE '%i%'
    )
ORDER BY EMPLOYEE_ID;
```

Query Result

SQL | Fetched 50 rows in 0.006 seconds

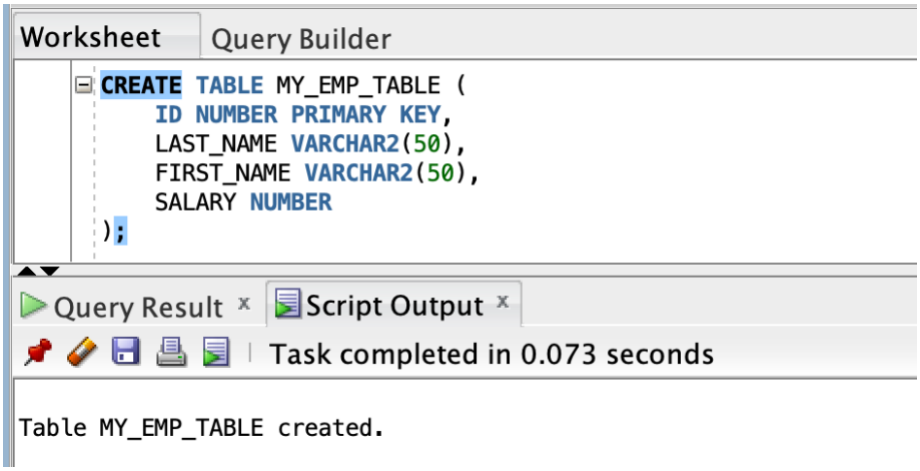
	EMPLOYEE_ID	LAST_NAME
1	100	King
2	101	Kochhar
3	102	De Haan
4	103	Hunold
5	104	Ernst
6	105	Austin
7	106	Pataballa
8	107	Lorentz
9	108	Greenberg
10	109	Faviet
11	110	Chen
12	111	Sciarra
13	112	Urman

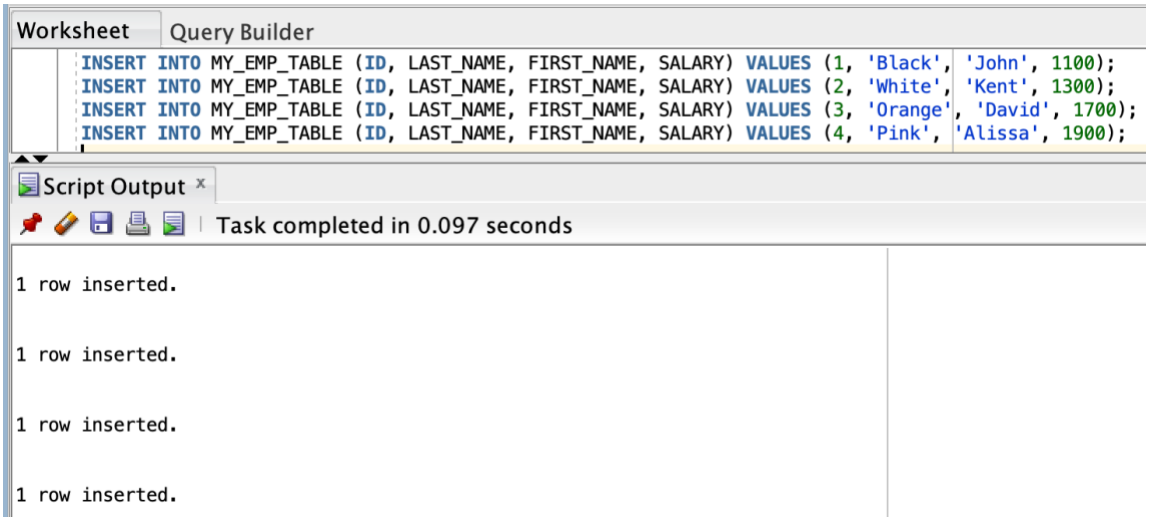
Exercise SQL02-EX-05:

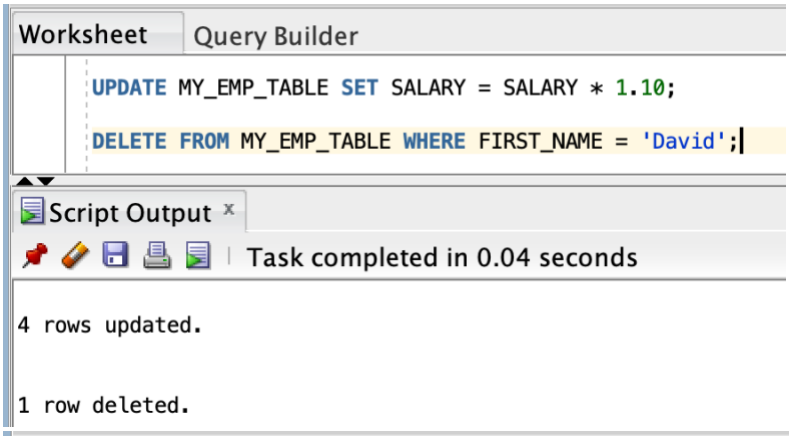
Definiton :

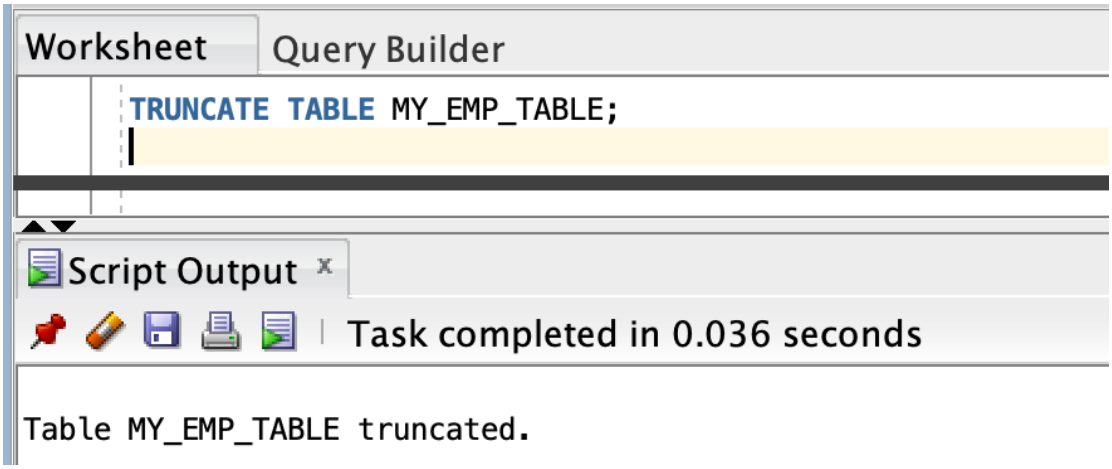
- Create a table for MY_EMP_TABLE with following columns
- Insert following rows,
- Update salary with 1.10 times of salary value
- Delete rows which first_name is David
- Truncate table.

ID	LAST_NAME	FIRST_NAME	SALARY
1	Black	John	1100
2	White	Kent	1300
3	Orange	David	1700
4	Pink	Alissa	1900






Worksheet
Query Builder
UPDATE MY_EMP_TABLE SET SALARY = SALARY * 1.10;
DELETE FROM MY_EMP_TABLE WHERE FIRST_NAME = 'David';
Script Output
Task completed in 0.04 seconds
4 rows updated.
1 row deleted.


Worksheet
Query Builder
TRUNCATE TABLE MY_EMP_TABLE;
Script Output
Task completed in 0.036 seconds
Table MY_EMP_TABLE truncated.