

i2i Academy

**Training Document**

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| **Topic** | Oracle SQL Language Fundamentals I |
| **Document Name** | SQL02-EX-01-05 |

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**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)

## SQL:

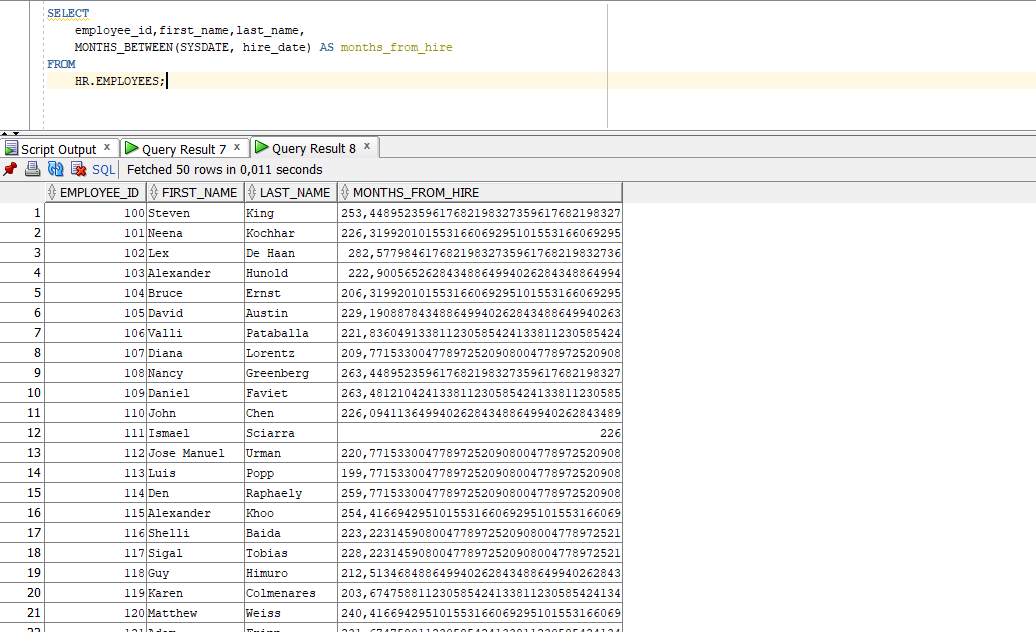
SELECT

employee\_id,first\_name,last\_name, MONTHS\_BETWEEN(SYSDATE, hire\_date) AS months\_from\_hire

FROM

HR.EMPLOYEES;

## Screenshot:



**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 |

## SQL:

SELECT employee\_id,first\_name,last\_name,job\_id, DECODE(job\_id,

'AD\_PRES', 'A',

'ST\_MAN', 'B',

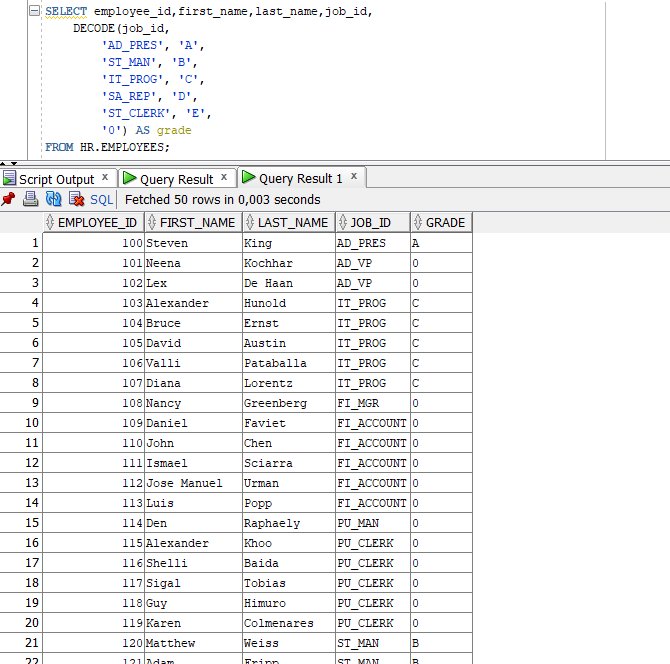
'IT\_PROG', 'C',

'SA\_REP', 'D',

'ST\_CLERK', 'E',

'0') AS grade FROM HR.EMPLOYEES;

**Screenshot( Exercise SQL02-EX-02 ):**



# Exercise SQL02-EX-03:

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

SELECT employee\_id,first\_name,last\_name,job\_id,

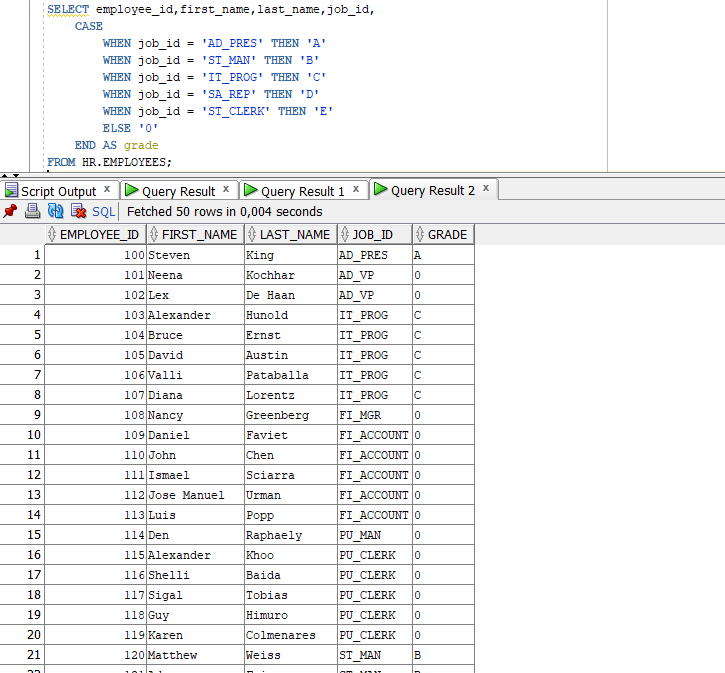
CASE

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;

## Screenshot( Exercise SQL02-EX-03 ):



**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”.

## SQL:

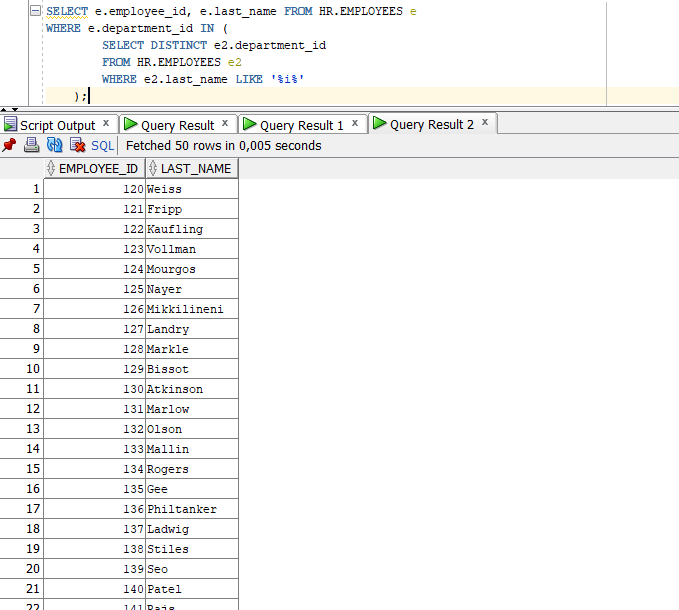
SELECT e.employee\_id, e.last\_name FROM HR.EMPLOYEES e WHERE e.department\_id IN (

SELECT DISTINCT e2.department\_id FROM HR.EMPLOYEES e2

WHERE e2.last\_name LIKE '%i%'

);

## Screenshot:



**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 |

## SQL:

CREATE TABLE MY\_EMP\_TABLE ( ID NUMBER PRIMARY KEY, LAST\_NAME VARCHAR2(50), FIRST\_NAME VARCHAR2(50), SALARY NUMBER

);

INSERT INTO MY\_EMP\_TABLE (ID, LAST\_NAME, FIRST\_NAME, SALARY) VALUES (1, 'Black', 'John', 1100);

INSERT INTO MY\_EMP\_TABLE (ID, LAST\_NAME, FIRST\_NAME, SALARY) VALUES (2, 'White', 'Kent', 1300);

INSERT INTO MY\_EMP\_TABLE (ID, LAST\_NAME, FIRST\_NAME, SALARY) VALUES (3, 'Orange', 'David', 1700);

INSERT INTO MY\_EMP\_TABLE (ID, LAST\_NAME, FIRST\_NAME, SALARY) VALUES (4, 'Pink', 'Alissa', 1900);

UPDATE MY\_EMP\_TABLE SET SALARY = SALARY \* 1.10;

DELETE FROM MY\_EMP\_TABLE WHERE FIRST\_NAME = 'David'; TRUNCATE TABLE MY\_EMP\_TABLE;

## Screenshot: