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

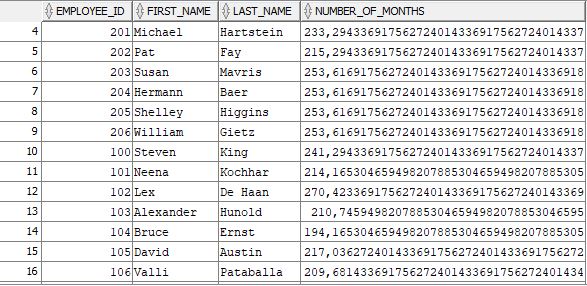
**SQL**:

SELECT employee\_id, first\_name, last\_name, MONTHS\_BETWEEN (SYSDATE, HIRE\_DATE)

AS NUMBER\_OF\_MONTHS

FROM hr.employees;

**Screenshot:**



## 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 |

**SQL:**

SELECT DISTINCT JOB\_ID AS Job,

DECODE(JOB\_ID, 'AD\_PRES',

'A', 'ST\_MAN',

'B', 'IT\_PROG',

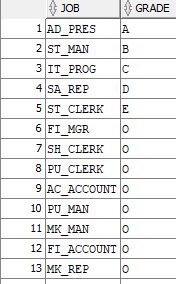
'C', 'SA\_REP',

'D', 'ST\_CLERK',

'E', 'O') Grade

FROM hr.employees ORDER BY grade;

**Screenshot:**



## Exercise SQL02-EX-03:

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

**SQL:**

SELECT DISTINCT job\_id AS Job,

CASE job\_id

WHEN 'AD\_PRES' THEN 'A'

WHEN 'ST\_MAN' THEN 'B'

WHEN 'IT\_PROG' THEN 'C'

WHEN 'SA\_REP' THEN 'D'

WHEN 'ST\_CLERK' THEN 'E'

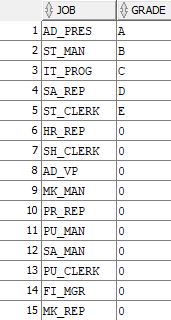
ELSE '0'

END AS Grade

FROM hr.employees

ORDER BY Grade;

**Screenshot:**



## 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”.

**SQL:**

SELECT employee\_id, last\_name

FROM hr.employees e

WHERE e.last\_name LIKE '%i%' ORDER BY employee\_id;

**Screenshot:**



## 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 |

**SQL:**

CREATE TABLE MY\_EMP\_TABLE(

ID NUMBER(5),

LAST\_NAME VARCHAR(20)NOT NULL,

FIRST\_NAME VARCHAR(20),

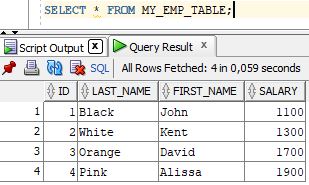
SALARY NUMBER(20));

INSERT INTO MY\_EMP\_TABLE VALUES ('1','Black','John','1100');

INSERT INTO MY\_EMP\_TABLE VALUES ('2','White','Kent','1300');

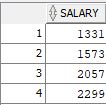
INSERT INTO MY\_EMP\_TABLE VALUES ('3','Orange','David','1700');

INSERT INTO MY\_EMP\_TABLE VALUES ('4','Pink','Alissa','1900');

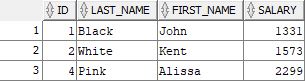


UPDATE MY\_EMP\_TABLE

SET salary = salary\*1.1;



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



TRUNCATE TABLE MY\_EMP\_TABLE;

