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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, FLOOR(MONTHS\_BETWEEN(SYSDATE, HIRE\_DATE)) AS SINCE\_HIRE\_MONTHS

FROM

hr.Employees;

**Screenshot:**

A screenshot of a computer

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## 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

EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME,

DECODE(JOB\_ID,

'AD\_PRES', 'A',

'ST\_MAN', 'B',

'IT\_PROG', 'C',

'SA\_REP', 'D',

'ST\_CLERK', 'E',

'0') AS GRADE\_BASED\_ON\_JOB\_TITLE

FROM

hr.Employees;

**Screenshot:**

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## 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,

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\_BASED\_ON\_JOB\_TITLE

FROM

HR.EMPLOYEES;

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## 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

WHERE

DEPARTMENT\_ID IN (

SELECT DISTINCT DEPARTMENT\_ID

FROM hr.EMPLOYEES

WHERE LOWER(LAST\_NAME) LIKE '%i%'

);

**Screenshot:**

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## 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 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;

A screenshot of a computer program

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**Screenshot:**