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| **Topic** | Oracle SQL Language Fundamentals I |
| **Document Name** | SQL02-HW-ANSWER |
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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('23-JUL-2023',HIRE\_DATE)

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 |

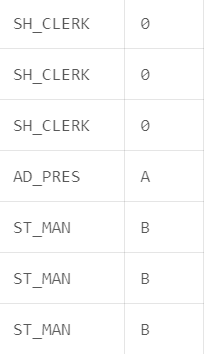
**SQL:**

SELECT JOB\_ID AS Job , DECODE(JOB\_ID,

'AD\_PRES','A','ST\_MAN','B','IT\_PROG','C','SA\_REP','D','ST\_CLERK','E','0')

AS 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 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;

**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 P.EMPLOYEE\_ID,P.LAST\_NAME FROM HR.EMPLOYEES P

WHERE P.LAST\_NAME LIKE '%i%' AND P.DEPARTMENT\_ID IS NOT NULL

**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(1),

LAST\_NAME VARCHAR2(20),

FIRST\_NAME VARCHAR2(20),

SALARY NUMBER(5,2)

);

INSERT ALL

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

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

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

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

SELECT \* FROM MY\_EMP\_TABLE;

UPDATE SALARY SET SALARY=SALARY\*1.1;

SELECT \* FROM MY\_EMP\_TABLE;

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

SELECT \* FROM MY\_EMP\_TABLE;

TRUNCATE TABLE MY\_EMP\_TABLE;

**Screenshot:**

