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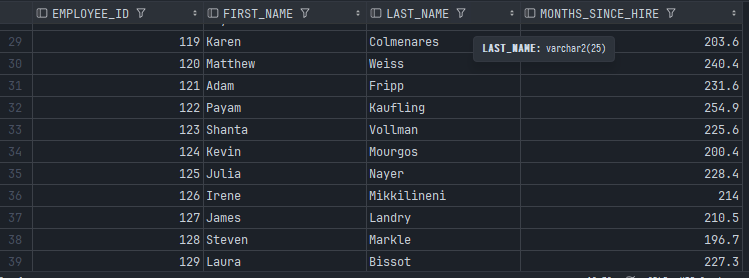
## Exercise SQL02-EX-01:

**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,  
 TRUNC(MONTHS\_BETWEEN(SYSDATE, HIRE\_DATE), 1) AS MONTHS\_SINCE\_HIRE  
FROM EMPLOYEES;

**Screenshot:**



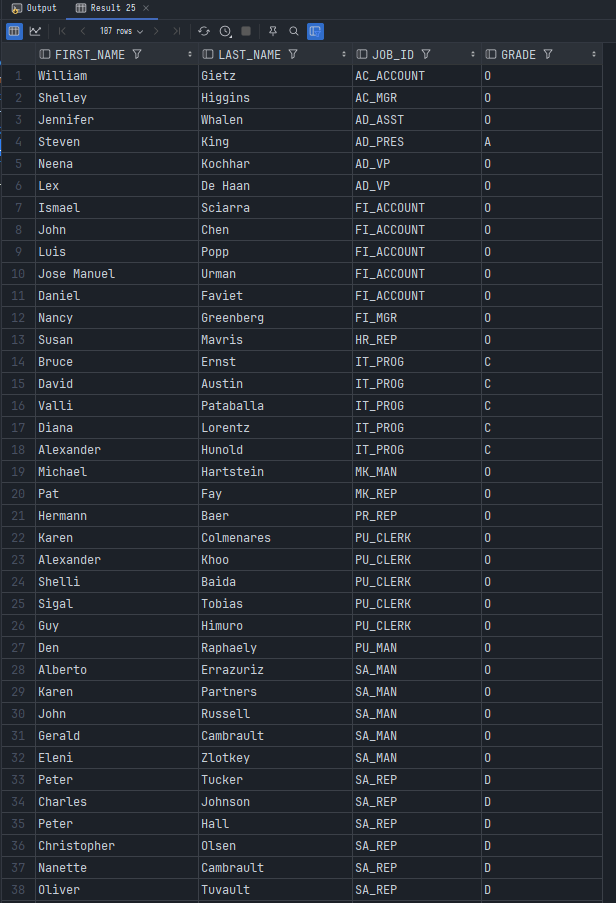
## Exercise SQL02-EX-02:

**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  
 FIRST\_NAME,  
 LAST\_NAME,  
 JOB\_ID,  
 DECODE(JOB\_ID, 'AD\_PRES', 'A',  
 'ST\_MAN', 'B',  
 'IT\_PROG', 'C',  
 'SA\_REP', 'D',  
 'ST\_CLERK', 'E',  
 'O') AS GRADE  
  
FROM EMPLOYEES  
GROUP BY JOB\_ID, FIRST\_NAME, LAST\_NAME  
ORDER BY JOB\_ID;

**Screenshot:**

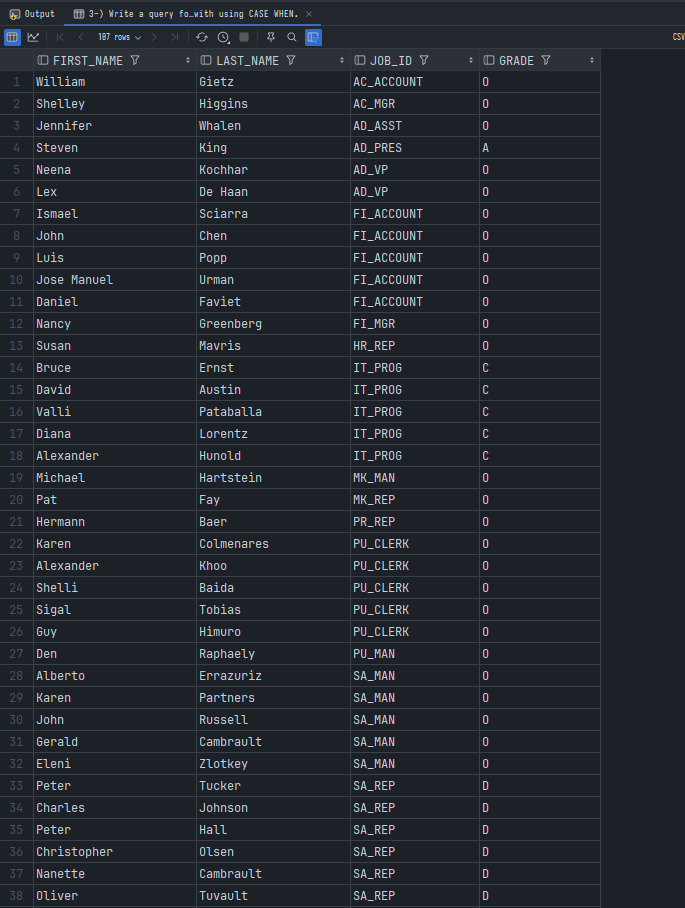
## Exercise SQL02-EX-03:

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

**SQL:**

SELECT FIRST\_NAME,  
 LAST\_NAME,  
 JOB\_ID,  
 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 'O'  
 END AS GRADE  
FROM EMPLOYEES  
ORDER BY JOB\_ID;

**Screenshot:**

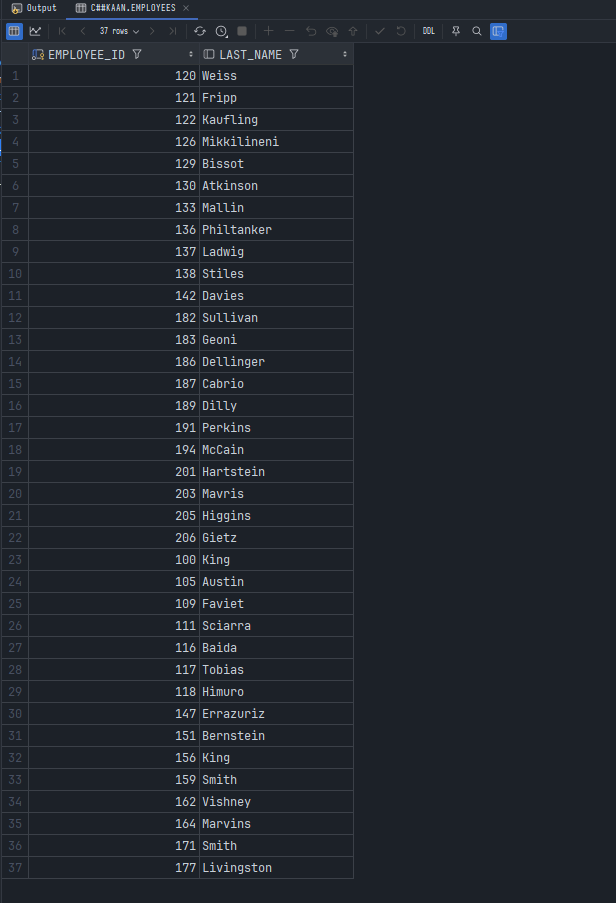


## Exercise SQL02-EX-04:

**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 EMP.EMPLOYEE\_ID, EMP.LAST\_NAME  
FROM EMPLOYEES EMP  
WHERE EMP.DEPARTMENT\_ID IN (SELECT E2.DEPARTMENT\_ID  
 FROM EMPLOYEES E2  
 WHERE EMP.LAST\_NAME LIKE '%i%');

**Screenshot:**

## Exercise SQL02-EX-05:

**Definiton :**

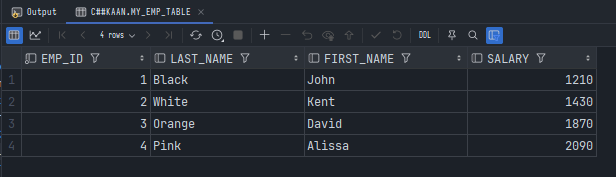
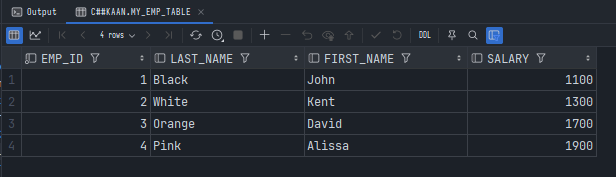
* Create a table for MY\_EMP\_TABLE with following columns
* Insert following rows,
* Update salary with 1.10 times of salary value
* Delete rows which first\_name is David
* Truncate table.

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **LAST\_NAME** | **FIRST\_NAME** | **SALARY** |
| 1 | Black | John | 1100 |
| 2 | White | Kent | 1300 |
| 3 | Orange | David | 1700 |
| 4 | Pink | Alissa | 1900 |

**SQL:**

--1  
CREATE TABLE MY\_EMP\_TABLE (  
 EMP\_ID NUMBER(10) NOT NULL,  
 LAST\_NAME VARCHAR2(256),  
 FIRST\_NAME VARCHAR2(256),  
 SALARY NUMBER(10)  
);  
  
--2  
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);  
  
--3  
UPDATE MY\_EMP\_TABLE EMP  
SET EMP.SALARY = (EMP.SALARY\* 0.1) +EMP.SALARY;  
  
--4  
DELETE FROM MY\_EMP\_TABLE  
WHERE FIRST\_NAME = 'David';  
  
--5  
TRUNCATE TABLE MY\_EMP\_TABLE;

**Screenshot:**

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