

i2i Academy

Training Document

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:

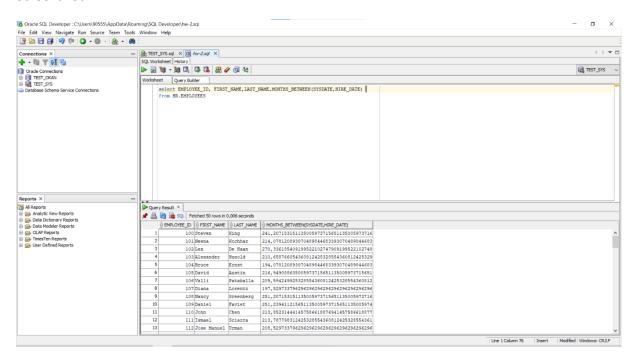
SELECT EMPLOYEE_ID,

FIRST_NAME,

LAST_NAME,

MONTHS_BETWEEN(SYSDATE,HIRE_DATE)

FROM HR.EMPLOYEES



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	Α
ST_MAN	В
IT_PROG	С
SA_REP	D
ST_CLERK	Е
None of the above	0

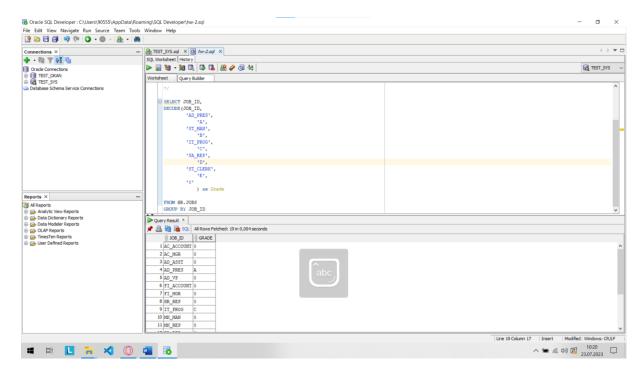
SQL:

```
SELECT JOB_ID,
DECODE(JOB_ID,
    'AD_PRES',
      'Α',
    'ST_MAN',
      'B',
    'IT_PROG',
      'C',
    'SA_REP',
      'D',
    'ST_CLERK',
      'Ε',
    '0'
      ) as Grade
```

FROM HR.JOBS

GROUP BY JOB_ID

Screenshot:



Exercise SQL02-EX-03:

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

SQL:

SELECT 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'

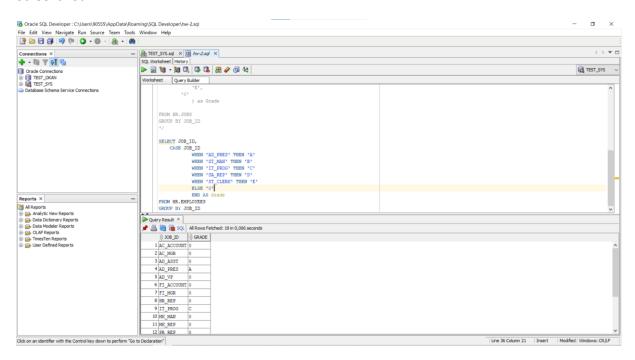
WHEN 'ST_CLERK' THEN 'E'

ELSE '0'

END AS Grade

FROM HR.EMPLOYEES

GROUP BY JOB_ID

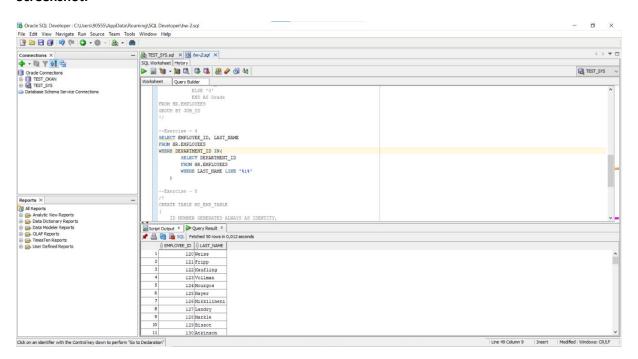


Exercise SQL02-EX-04:

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 DEPARTMENT_ID
FROM HR.EMPLOYEES
WHERE LAST_NAME LIKE '%i%'
```



Exercise SQL02-EX-05:

Definition:

- 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 GENERATED ALWAYS AS IDENTITY,

LAST_NAME VARCHAR(30) NOT NULL,

FIRS_NAME VARCHAR(40) NOT NULL,

SALARY NUMBER NOT NULL

)

INSERT INTO MY_EMP_TABLE (LAST_NAME, FIRST_NAME, SALARY)

VALUES ('Black','John',1100),

('White','Kent',1300),

('Orange','Devid',1700);
```

UPDATE MY EMP TABLE SET SALARY = SALARY * 1.10 WHERE ID=2

DELETE FROM MY_EMP_TABLE WHERE FIRST_NAME = 'Devid'

DROP TABLE MY_EMP_TABLE

