

i2i Academy

Training Document

Topic	Oracle SQL Language Fundamentals I
Document Name	SQL02-EX-01-05

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)

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SQL:

```
SELECT EMPLOYEE_ID, FIRST_NAME, LAST_NAME, TRUNC(MONTHS_BETWEEN
( '26-JUL-23', HIRE_DATE ) ) "NUMBER_OF_MONTHS"
FROM HR.EMPLOYEES;
```

Screenshot:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	NUMBER_OF_MONTHS
100	Steven	King	241
101	Neena	Kochhar	214
102	Lex	De Haan	270
103	Alexander	Hunold	210
104	Bruce	Ernst	194

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,
DECODE( JOB_ID, 'AD_PRES','A','ST_MAN','B','IT_PROG','C','SA_REP','D','ST_CLERK','E','0') Grade
FROM HR.EMPLOYEES ORDER BY EMPLOYEE_ID ASC;
```

Screenshot:

EMPLOYEE_ID	GRADE
100	A
101	0
102	0
103	C
104	C
105	C
106	C

Exercise SQL02-EX-03:

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

SQL:

SELECT EMPLOYEE_ID,

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

FROM HR.EMPLOYEES ORDER BY EMPLOYEE_ID;

Screenshot:

EMPLOYEE_ID	GRADE
100	A
101	0
102	0
103	C
104	C
105	C
106	C

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, HR.EMPLOYEES.DEPARTMENT_ID
FROM HR.EMPLOYEES,
(SELECT DISTINCT DEPARTMENT_ID
FROM HR.EMPLOYEES
WHERE LAST_NAME LIKE '%i%') i_departments
WHERE i_departments.DEPARTMENT_ID = HR.EMPLOYEES.DEPARTMENT_ID
ORDER BY HR.EMPLOYEES.DEPARTMENT_ID;
```

Screenshot:

EMPLOYEE_ID	LAST_NAME	DEPARTMENT_ID
202	Fay	20
201	Hartstein	20
115	Khoo	30
116	Baida	30
118	Himuro	30
119	Colmenares	30
117	Tobias	30

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 INT,  
  
    LAST_NAME VARCHAR(50),  
  
    FIRST_NAME VARCHAR(50),  
  
    SALARY INT);  
  
INSERT INTO MY_EMP_TABLE VALUES (1,'Black','John',1900);  
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 * 1.10  
DELETE FROM MY_EMP_TABLE WHERE FIRST_NAME = 'David'  
TRUNCATE TABLE MY_EMP_TABLE;
```

Screenshot:

ID	LAST_NAME	FIRST_NAME	SALARY
1	Black	John	1210
2	White	Kent	1430
3	Orange	David	1870
4	Pink	Alissa	2090

After truncate:

no data found