

# i2i Academy

Topic	Oracle SQL Language Fundamentals I
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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(  
         TO_DATE(SYSDATE, 'DD-MM-YYYY'),  
         TO_DATE(hire_date, 'DD-MM-YYYY')  
       ) as number_of_months  
FROM HR.employees
```

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**Screenshot:**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	NUMBER_OF_MONTHS
100	Steven	King	241.225806451612903225806451612903225806
101	Neena	Kochhar	214.096774193548387096774193548387096774
102	Lex	De Haan	270.354838709677419354838709677419354839
103	Alexander	Hunold	210.677419354838709677419354838709677419
104	Bruce	Ernst	194.096774193548387096774193548387096774
105	David	Austin	216.967741935483870967741935483870967742
106	Valli	Pataballa	209.612903225806451612903225806451612903
107	Diana	Lorentz	197.548387096774193548387096774193548387
108	Nancy	Greenberg	251.225806451612903225806451612903225806
109	Daniel	Faviet	251.258064516129032258064516129032258065
110	John	Chen	213.870967741935483870967741935483870968
111	Ismael	Sciarra	213.806451612903225806451612903225806452

### 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',
               '0') AS grade
FROM HR.employees;
```

**Screenshot:**

Jennifer	Whalen	AD_ASST	0
Steven	King	AD_PRES	A
Neena	Kochhar	AD_VP	0
Lex	De Haan	AD_VP	0
Daniel	Faviet	FI_ACCOUNT	0
John	Chen	FI_ACCOUNT	0
Ismael	Sciarra	FI_ACCOUNT	0
Jose Manuel	Urman	FI_ACCOUNT	0
Luis	Popp	FI_ACCOUNT	0
Nancy	Greenberg	FI_MGR	0
Susan	Mavris	HR_REP	0
Alexander	Hunold	IT_PROG	C
Bruce	Ernst	IT_PROG	C

### 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 '0' END) AS grade
FROM HR.employees;
```

**Screenshot:**

Steven	King	AD_PRES	A
Neena	Kochhar	AD_VP	0
Lex	De Haan	AD_VP	0
Daniel	Faviet	FI_ACCOUNT	0
John	Chen	FI_ACCOUNT	0
Ismael	Sciarra	FI_ACCOUNT	0
Jose Manuel	Urman	FI_ACCOUNT	0
Luis	Popp	FI_ACCOUNT	0
Nancy	Greenberg	FI_MGR	0
Susan	Mavris	HR_REP	0
Alexander	Hunold	IT_PROG	C
Bruce	Ernst	IT_PROG	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  
FROM HR.employees  
WHERE last_name LIKE '%i%';
```

**Screenshot:**

EMPLOYEE_ID	LAST_NAME
130	Atkinson
105	Austin
116	Baida
151	Bernstein
129	Bissot
187	Cabrio
142	Davies
186	Dellinger
189	Dilly
147	Errazuriz
109	Faviet
121	Fripp
183	Geoni

## 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 VARCHAR(10),  
  first_name VARCHAR(10),  
  salary NUMBER(5)  
);
```

```
INSERT ALL  
  INTO my_emp_table VALUES (1, 'Black', 'John', 1100)  
  INTO my_emp_table VALUES (2, 'White', 'Kent', 1300)  
  INTO my_emp_table VALUES (3, 'Orange', 'David', 1700)  
  INTO my_emp_table VALUES (4, 'Pink', 'Alissa', 1900)  
SELECT 1 FROM dual;
```

```
UPDATE my_emp_table  
SET salary = salary * 1.1;
```

```
DELETE FROM my_emp_table  
WHERE first_name = 'David';
```

```
TRUNCATE TABLE my_emp_table;
```

### Screenshot:

Table created.

4 row(s) inserted.

4 row(s) updated.

1 row(s) deleted.

Table truncated.