

# i2i Academy

## Training Document

<b>Topic</b>	Oracle SQL Language Fundamentals I
<b>Document Name</b>	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,

FLOOR(MONTHS\_BETWEEN(TO\_DATE('22-08-2015'), hire\_date)) AS "Number of Months"

FROM

HR.employees;

### Screenshot:

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	Number of Months
1	100	Steven	King	146
2	101	Neena	Kochhar	119
3	102	Lex	De Haan	175
4	103	Alexander	Hunold	115
5	104	Bruce	Ernst	99
6	105	David	Austin	121

### 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 DISTINCT job_id as Job,
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 Grade ASC;
```

**Screenshot:**

	JOB	GRADE
1	AD_PRES	A
2	ST_MAN	B
3	IT_PROG	C
4	SA_REP	D
5	ST_CLERK	E
6	HR_REP	0

### Exercise SQL02-EX-03:

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

**SQL:**

```
SELECT DISTINCT  
  
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  
  
ORDER BY Grade ASC;
```

**Screenshot:**

	JOB	GRADE
1	AD_PRES	A
2	ST_MAN	B
3	IT_PROG	C
4	SA_REP	D
5	ST_CLERK	E
6	HR_REP	0

### 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 e.employee_id, e.last_name
from   hr.employees e
where  e.last_name LIKE '%i%' and e.department_id is not null;
```

#### Screenshot:

	EMPLOYEE_ID	LAST_NAME
1	100	King
2	105	Austin
3	109	Faviet
4	111	Sciarra
5	116	Baida
6	117	Tobias
7	118	Himuro
8	120	Weiss

## 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(10)
```

```
);
```

```
INSERT ALL
```

```
    INTO MY_EMP_TABLE(ID, LAST_NAME, FIRST_NAME,) VALUES (1, 'Black', 'John', 1100)
```

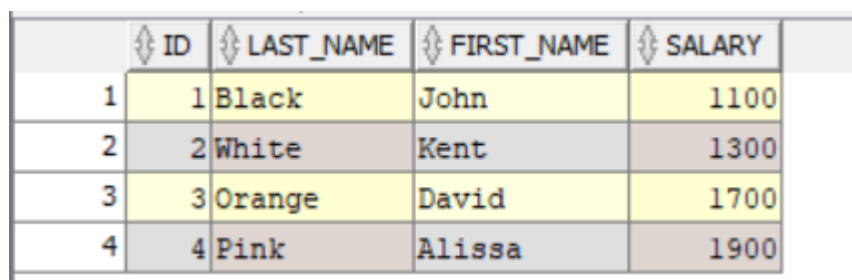
```
    INTO MY_EMP_TABLE(ID, LAST_NAME, FIRST_NAME,) VALUES (2, 'White', 'Kent', 1300)
```

```
    INTO MY_EMP_TABLE(ID, LAST_NAME, FIRST_NAME,) VALUES (3, 'Orange', 'David', 1700)
```

```
    INTO MY_EMP_TABLE(ID, LAST_NAME, FIRST_NAME,) VALUES (4, 'Pink', 'Alissa', 1900)
```

```
SELECT * FROM MY_EMP_TABLE ;
```

### Screenshot:



	ID	LAST_NAME	FIRST_NAME	SALARY
1	1	Black	John	1100
2	2	White	Kent	1300
3	3	Orange	David	1700
4	4	Pink	Alissa	1900

**SQL:**

```
UPDATE MY_EMP_TABLE
```

```
SET SALARY = SALARY*1.1;
```

```
SELECT * FROM MY_EMP_TABLE ;
```

**Screenshot:**

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

**SQL:**

```
DELETE FROM MY_EMP_TABLE
```

```
WHERE FIRST_NAME = 'David';
```

```
SELECT * FROM MY_EMP_TABLE ;
```

**Screenshot:**

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

**SQL:**

```
TRUNCATE TABLE MY_EMP_TABLE ;
```

```
SELECT * FROM MY_EMP_TABLE ;
```

**Screenshot:**

ID	LAST_NAME	FIRST_NAME	SALARY
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**-AHMET USTA**