

LU07.S03 - UPDATE

A: Basic Update

As a company policy the attribute 'sex' is not required anymore and is to be emptied. Formulate the corresponding SQL statement that deletes all content from that column.

```
Update employees
SET surname = 'Suter'
WHERE employee_ID = 8;
```

The screenshot shows a database development environment with two panes. The top pane is a 'Playground' editor containing the following SQL code:

```
89  Update employees
90  SET surname = 'Suter'
91  WHERE employee_ID = 8;
92 ✓  Select * from employees;
```

The line 'WHERE employee_ID = 8;' is highlighted with a yellow circle, and a red arrow points from the bottom of this line to the 'employee_ID' column in the result table below. The bottom pane is an 'Output' window titled 'hr_database.employees' showing the following data:

	employee_ID	name	surname	birthdate
1	1	John	Doe	1985-03-25
2	2	Jane	Smith	1990-07-19
3	3	Mike	Brown	1982-11-02
4	4	Sarah	Johnson	1970-01-14
5	5	Chris	Williams	1987-04-11
6	6	Anna	Lee	1993-12-01
7	7	David	Kim	1989-10-22
8	8	Laura	Suter	1986-02-17

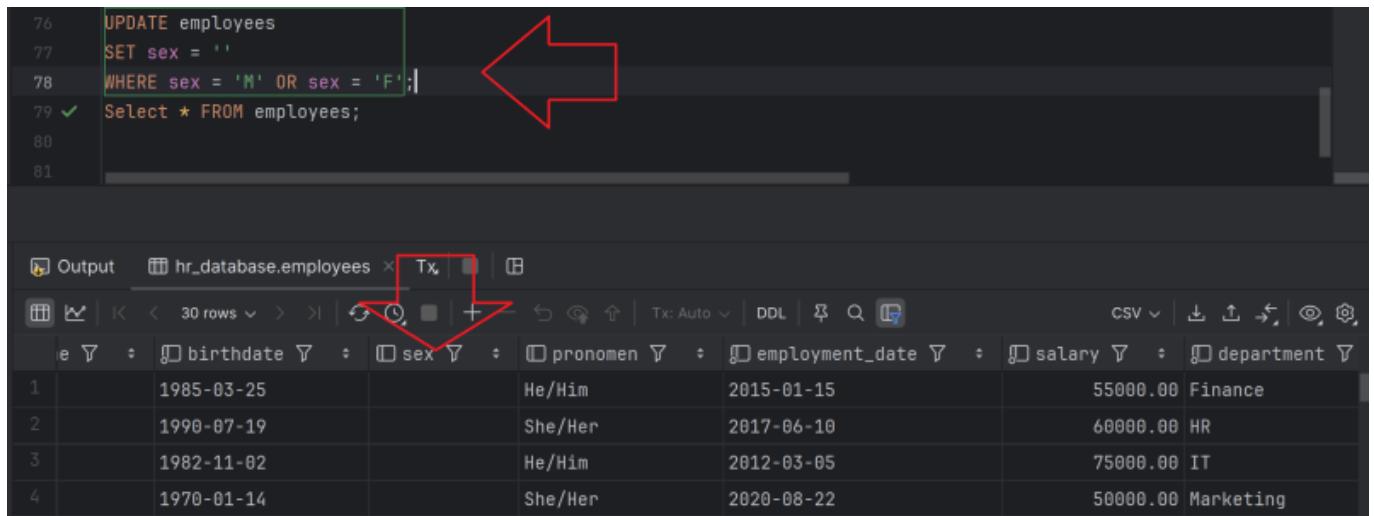
A red arrow points from the bottom of the 'employee_ID' column in the result table to the '8' in the 'employee_ID' column of the last row.

B: Update with OR

As a company policy the attribute 'sex' is not required anymore and is to be emptied. Formulate the corresponding SQL statement that deletes all content from that column.

```
UPDATE employees
SET sex = ''
WHERE sex = 'M' OR sex = 'F';
```

After performing the update statement, the select on the table 'employee' shows that the column 'sex' is now empty.



```
76 UPDATE employees
77 SET sex = ''
78 WHERE sex = 'M' OR sex = 'F';
79 ✓ Select * FROM employees;
```

id	birthdate	sex	pronomen	employment_date	salary	department
1	1985-03-25		He/Him	2015-01-15	55000.00	Finance
2	1990-07-19		She/Her	2017-06-10	60000.00	HR
3	1982-11-02		He/Him	2012-03-05	75000.00	IT
4	1970-01-14		She/Her	2020-08-22	50000.00	Marketing

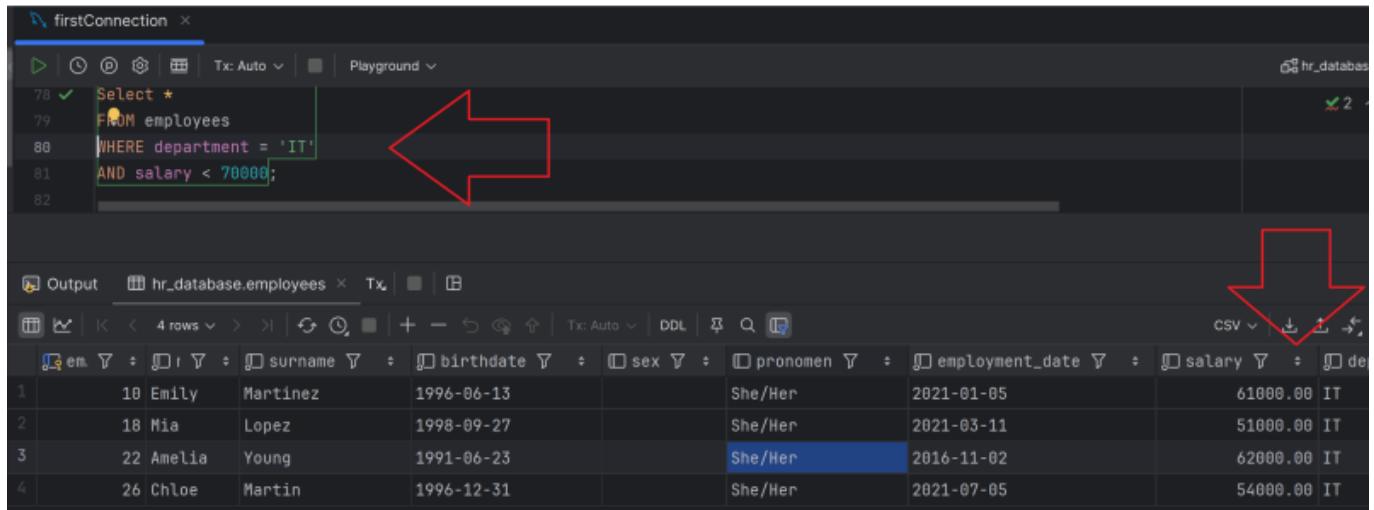
C: Update with AND =?

The performance of our company's IT department was outstanding last year, resulting in a pay rise to 70'000 for all IT employees earning less than CHF 70,000. Create a DML update command that covers the requirements.

to make sure, that the outcome is correct we first need to find the rows concerned. The following SQL statements will give us the correct resultset.

```
Select *
FROM employees
WHERE department = 'IT'
AND salary < 70000;
```

This execution of the select results in the following image:



```
78 ✓ Select *
79   FROM employees
80   WHERE department = 'IT'
81   AND salary < 70000;
```

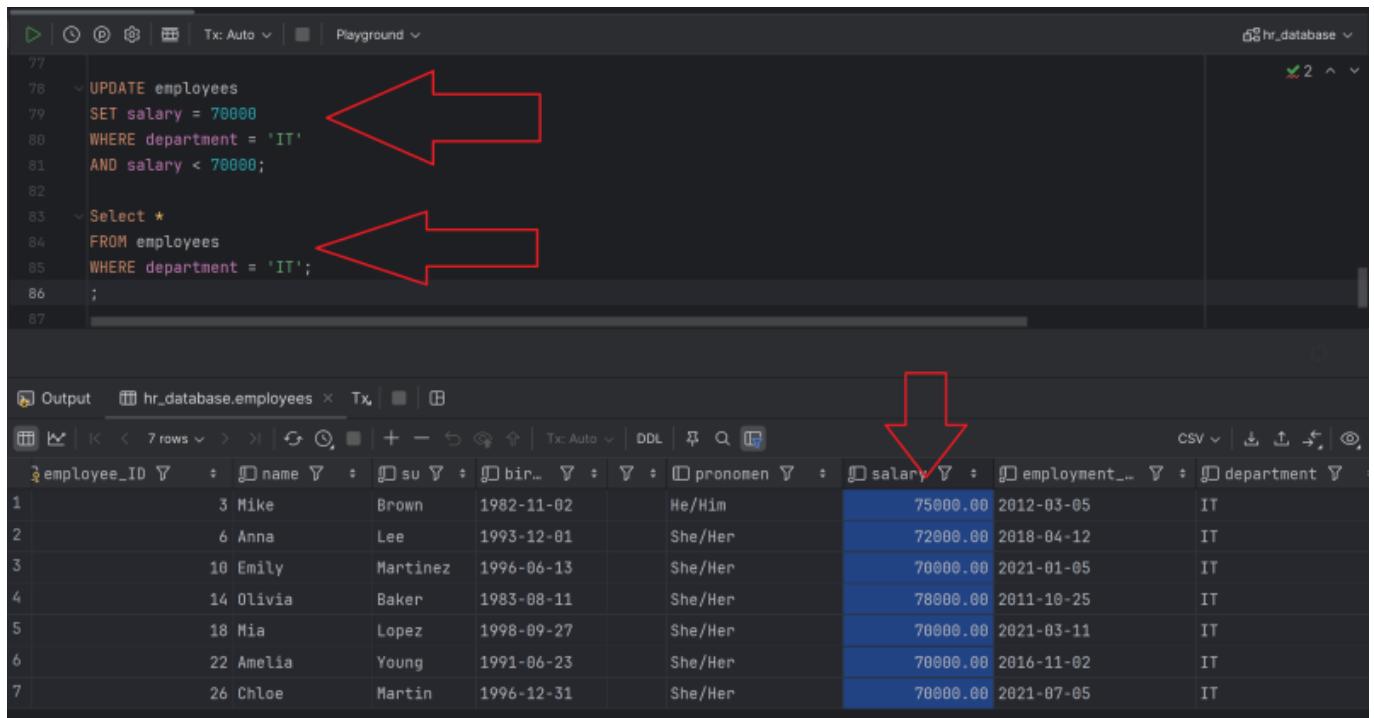
id	firstname	surname	birthdate	sex	pronomen	employment_date	salary	department
10	Emily	Martinez	1996-06-13		She/Her	2021-01-05	61000.00	IT
18	Mia	Lopez	1998-09-27		She/Her	2021-03-11	51000.00	IT
22	Amelia	Young	1991-06-23		She/Her	2016-11-02	62000.00	IT
26	Chloe	Martin	1996-12-31		She/Her	2021-07-05	54000.00	IT

After executing the following update command, we check the result, in which the 4 lines the 'Salary'

column are now updated to CHF 70'0000,-.

```
UPDATE employees
SET salary = 70000
WHERE department = 'IT'
AND salary < 70000;
```

```
Select *
FROM employees
WHERE department = 'IT';
```



```
77
78 UPDATE employees
79 SET salary = 70000
80 WHERE department = 'IT'
81 AND salary < 70000;
82
83 Select *
84 FROM employees
85 WHERE department = 'IT';
86 ;
87
```

Employee_ID	Name	Surname	Birthdate	Pronomen	Salary	Employment_Start	Department
1	3	Mike Brown	1982-11-02	He/Him	75000.00	2012-03-05	IT
2	6	Anna Lee	1993-12-01	She/Her	72000.00	2018-04-12	IT
3	10	Emily Martinez	1996-06-13	She/Her	70000.00	2021-01-05	IT
4	14	Olivia Baker	1983-08-11	She/Her	78000.00	2011-10-25	IT
5	18	Mia Lopez	1998-09-27	She/Her	70000.00	2021-03-11	IT
6	22	Amelia Young	1991-06-23	She/Her	70000.00	2016-11-02	IT
7	26	Chloe Martin	1996-12-31	She/Her	70000.00	2021-07-05	IT

Vocabulary

English	German
...	...



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