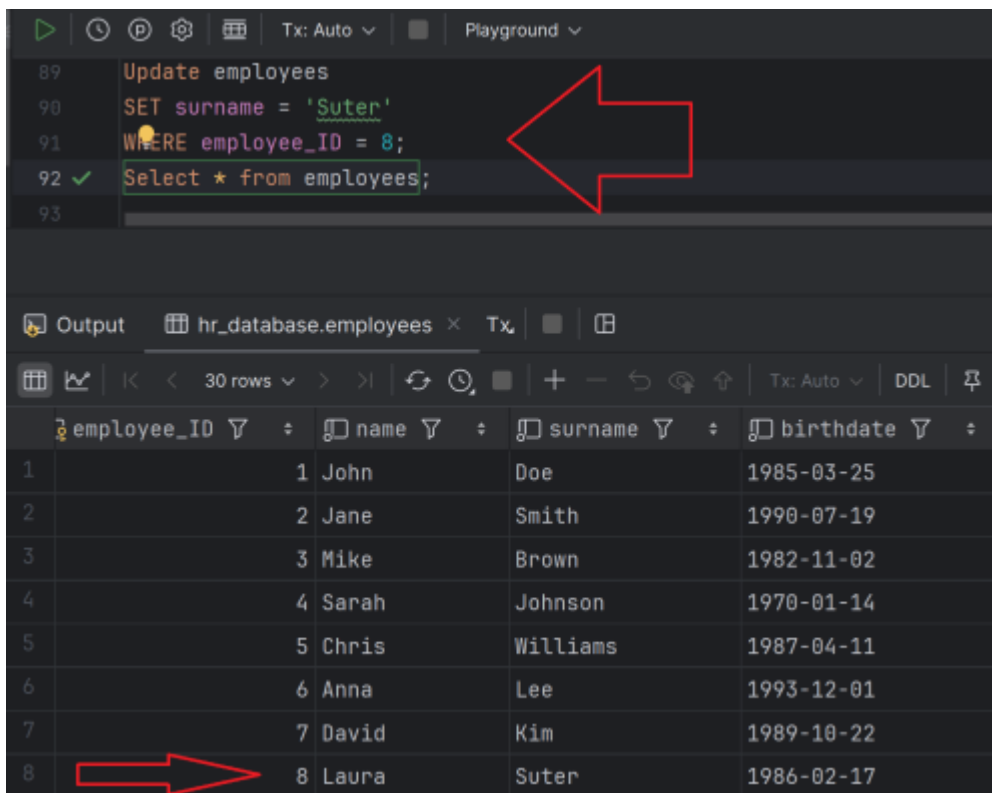


LU07.S03 - UPDATE

A: Basic Update

The employee 'Laura Clark' got divorced and therefore took her maiden name. Update her data record in the table.

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



The screenshot shows a SQL playground interface. The top section contains the following SQL code:

```
89 Update employees
90 SET surname = 'Suter'
91 WHERE employee_ID = 8;
92 ✓ Select * from employees;
93
```

A red arrow points from the 'Suter' value in the UPDATE statement to the 'Suter' value in the SELECT result table.

The bottom section shows the output of the SELECT statement, displaying the 'hr_database.employees' table. The table has the following columns: employee_ID, name, surname, and birthdate. The data is as follows:

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

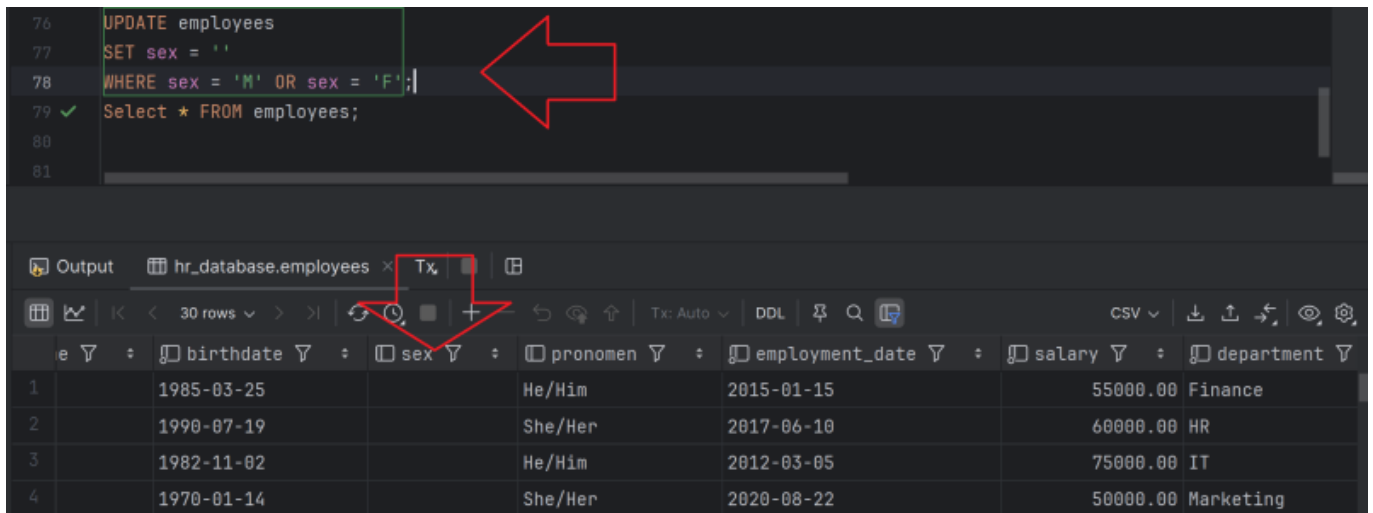
A red arrow points from the 'Suter' value in the UPDATE statement to the 'Suter' value in the SELECT result table.

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.



The screenshot shows a SQL editor with the following code:

```
76 UPDATE employees
77 SET sex = ''
78 WHERE sex = 'M' OR sex = 'F';
79 Select * FROM employees;
80
81
```

A red arrow points to the WHERE clause. Below the code, the result set is displayed in a table with 8 columns: birthdate, sex, pronomen, employment_date, salary, and department. The table contains 4 rows of data.

	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

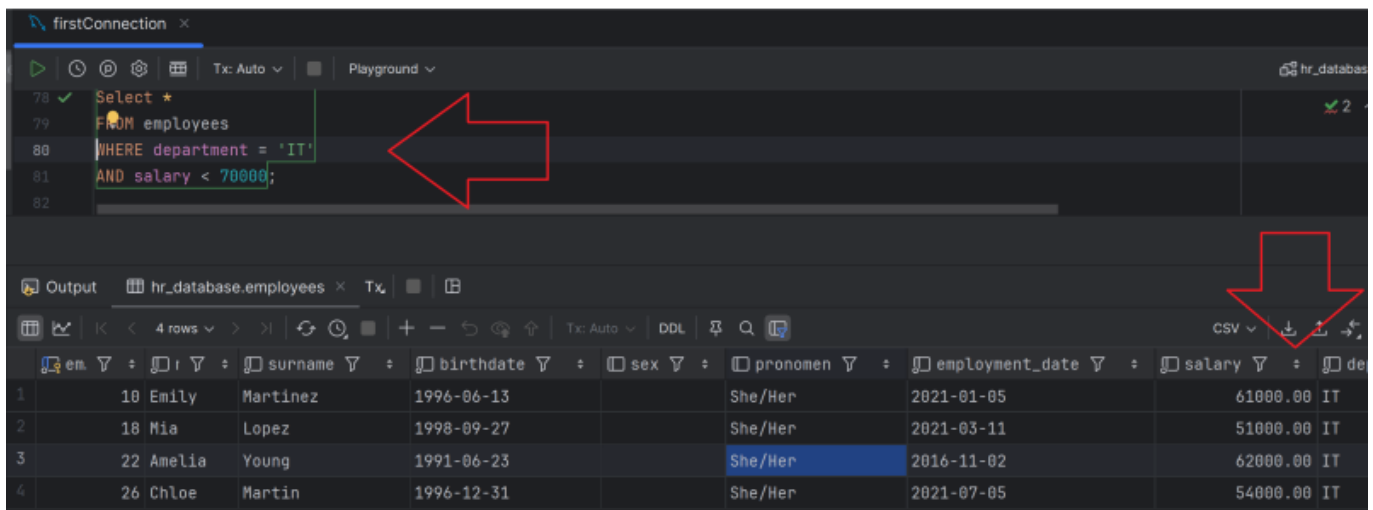
C: Update with AND =?

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:



The screenshot shows a SQL editor with the following code:

```
78 Select *
79 FROM employees
80 WHERE department = 'IT'
81 AND salary < 70000;
82
```

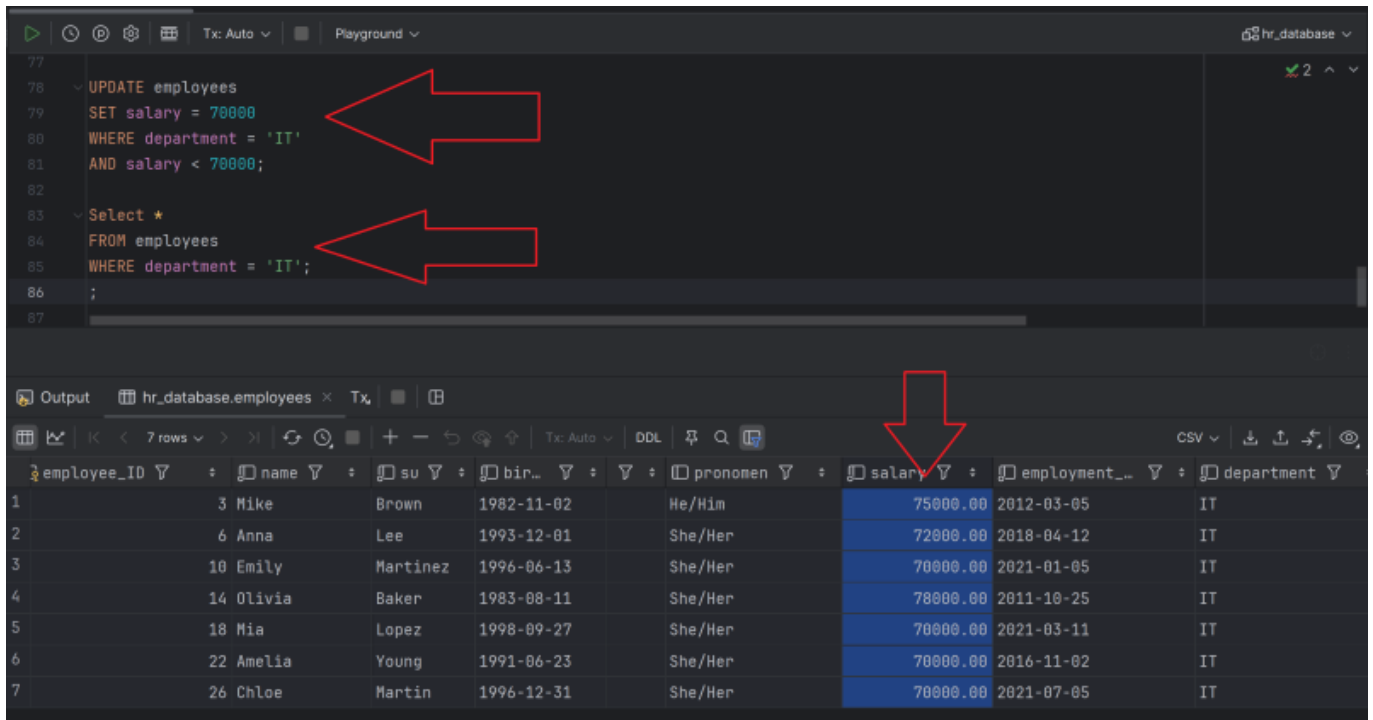
A red arrow points to the WHERE clause. Below the code, the result set is displayed in a table with 9 columns: em, i, surname, birthdate, sex, pronomen, employment_date, salary, and de. The table contains 4 rows of data.

	em	i	surname	birthdate	sex	pronomen	employment_date	salary	de
1	18	Emily	Martinez	1996-06-13		She/Her	2021-01-05	61000.00	IT
2	18	Mia	Lopez	1998-09-27		She/Her	2021-03-11	51000.00	IT
3	22	Amelia	Young	1991-06-23		She/Her	2016-11-02	62000.00	IT
4	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';
```



The screenshot shows a SQL playground interface with two queries entered and executed. The first query is an UPDATE statement, and the second is a SELECT statement. The output table displays 7 rows of employee data, with the salary column highlighted in blue for all rows.

employee_ID	name	su	bir..	pronomen	salary	employment_..	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
...	...



Volkan Demir

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