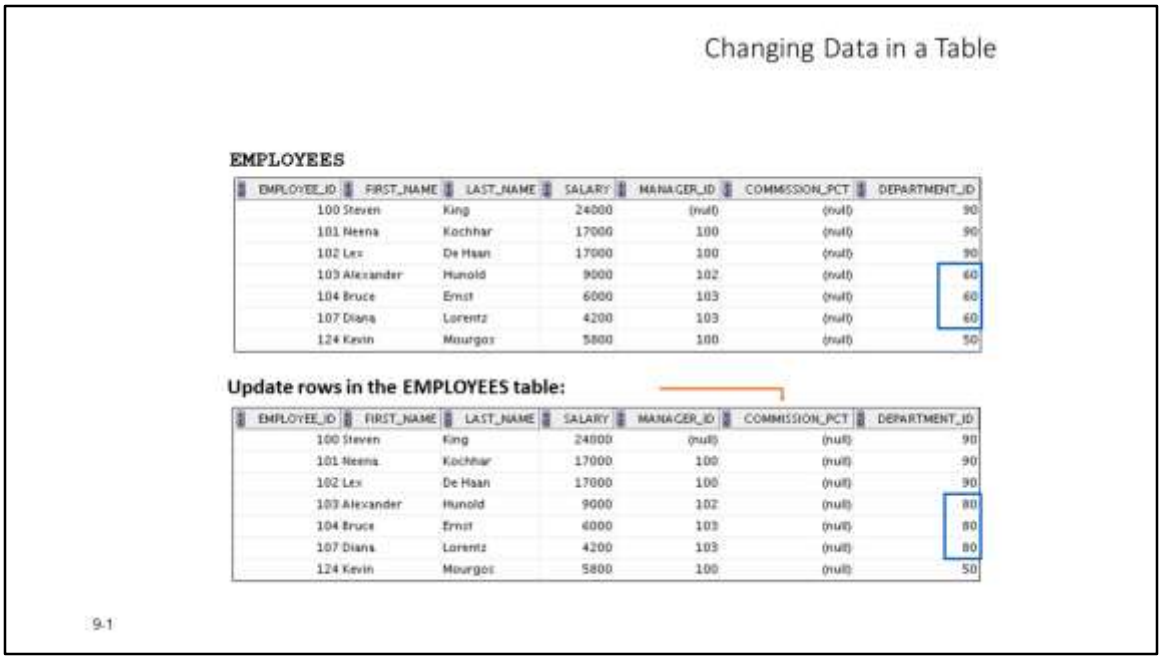
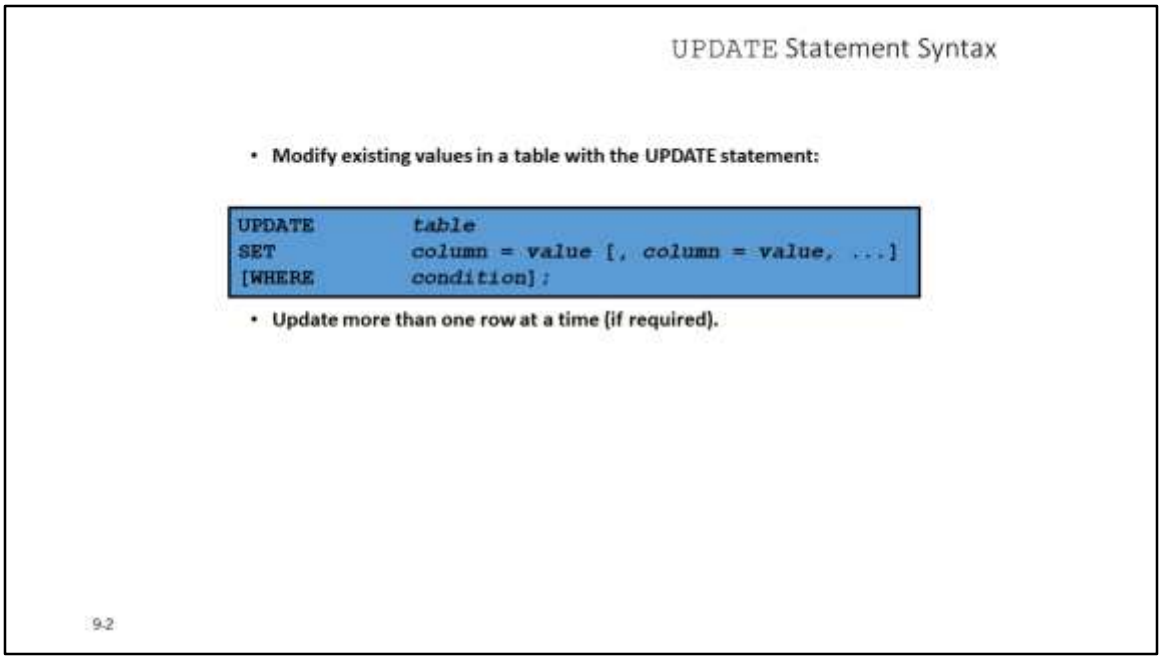


Changing Data in a Table

The slide illustrates changing the department number for employees in department 60 to
department 80.



UPDATE Statement Syntax

You can modify the existing values in a table by using the UPDATE statement.

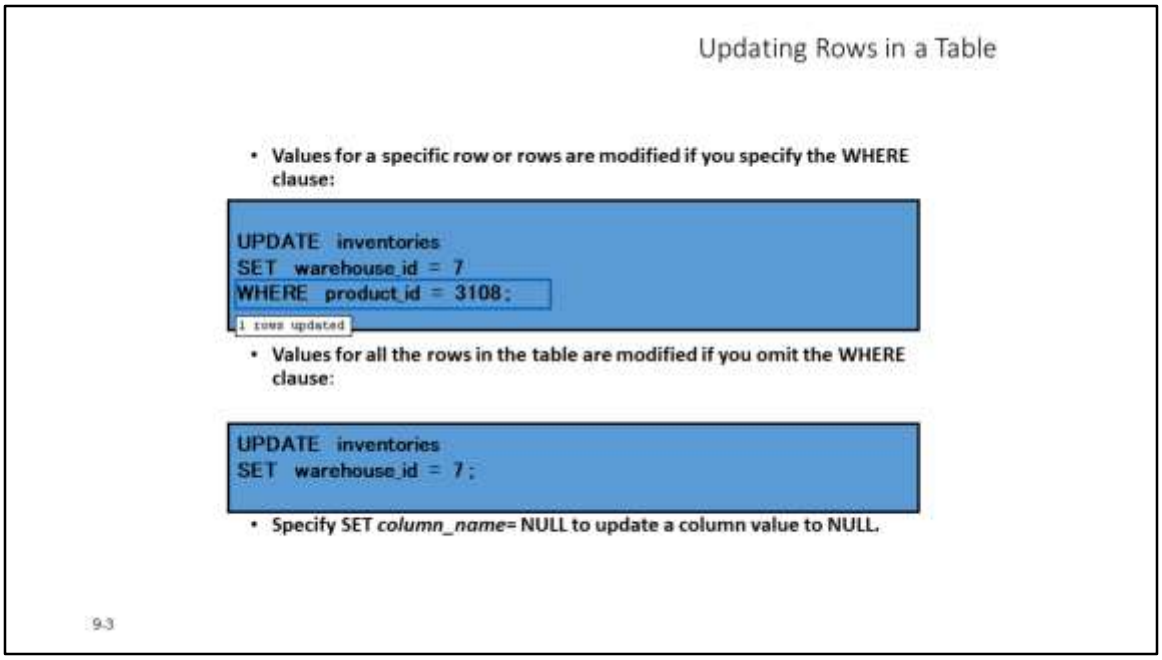
In the syntax:

table	Is the name of the table
column	Is the name of the column in the table to populate
value	Is the corresponding value or subquery for the column
condition	Identifies the rows to be updated and is composed of column names, expressions, constants, subqueries, and comparison operators

Confirm the update operation by querying the table to display the updated rows.

For more information, see the section on "UPDATE" in *Oracle Database SQL Language Reference* for 10*g* or 11*g* database.

Note: In general, use the primary key column in the WHERE clause to identify a single row for update. Using other columns can unexpectedly cause several rows to be updated. For example, identifying a single row in the EMPLOYEES table by name is dangerous, because more than one employee may have the same name.



Updating Rows in a Table

The `UPDATE` statement modifies the values of a specific row or rows if the `WHERE` clause is specified. The example in the slide shows the transfer of product 3108 to warehouse 7.

If you omit the `WHERE` clause, values for all the rows in the table are modified.

Examine the updated rows in the `INVENTORIES` table.

```
SELECT *
FROM   inventories;
```

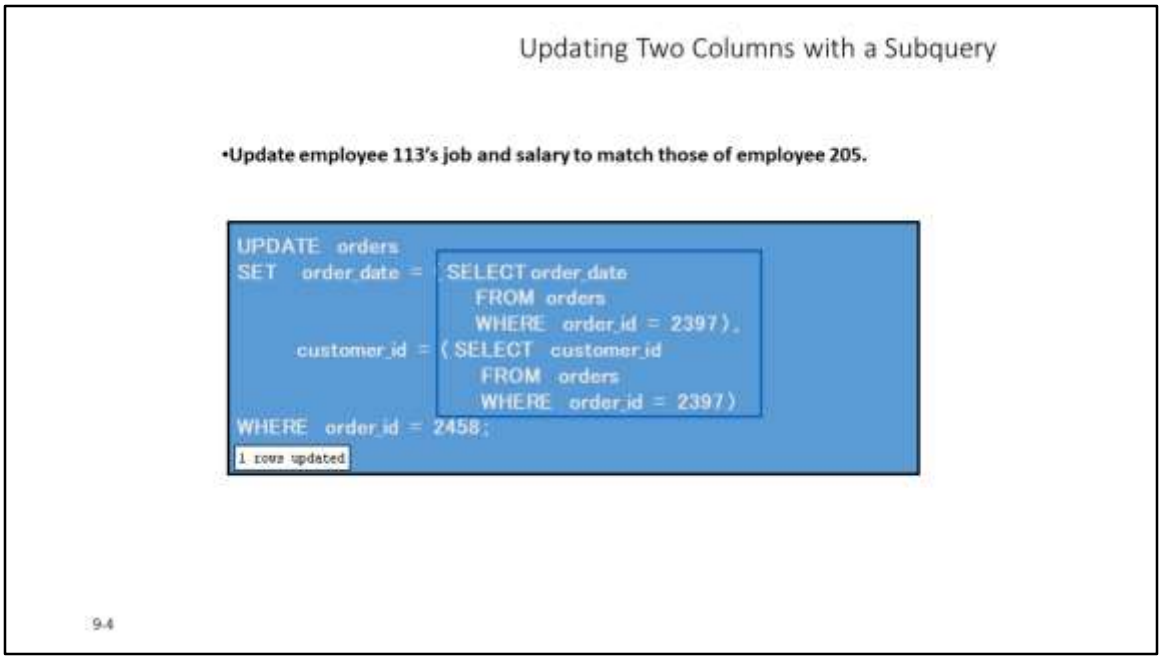
	LAST_NAME	DEPARTMENT_ID
1	Whalen	110
2	Hartstein	110
3	Fay	110

`SA_REP` has now changed his job to an
ls to be updated and the commission

```
...     UPDATE employees
        SET job_id = 'IT_PROG', commission_pct = NULL
```

```
WHERE employee_id = 114;
```

Note: The `COPY_EMP` table has the same data as the `EMPLOYEES` table.



Updating Two Columns with a Subquery

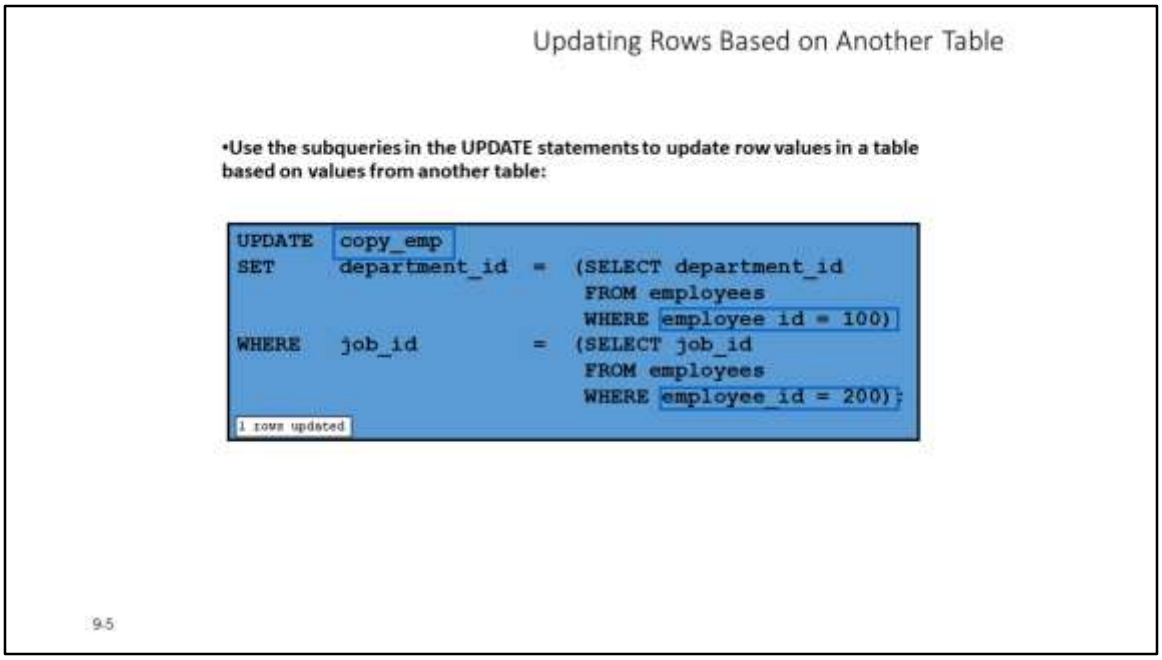
You can update multiple columns in the `SET` clause of an `UPDATE` statement by writing multiple subqueries. The syntax is as follows:

```
UPDATE table
SET     column  =
                                (SELECT         column
                                 FROM table
                                 WHERE condition)
        [ ,
         column  =
                                (SELECT         column
                                 FROM table
                                 WHERE condition)]
 [WHERE  condition ]        ;
```

The example in the slide can also be written as follows:

```
UPDATE orders
SET (order_date, customer_id)  = (SELECT  order_date,
  customer_id
                    FROM    orders
                    WHERE   order_id = 2397)
```

```
WHERE    order_id    =  2458;
```



Updating Rows Based on Another Table

You can use the subqueries in the `UPDATE` statements to update values in a table. The example in the slide updates the `COPY_EMP` table based on the values from the `EMPLOYEES` table. It changes the department number of all employees with employee 200's job ID to employee 100's current department number.