

Additional DML commands: **UPDATE & DELETE**

- Updates **columns** in existing table rows with new values.
- For example
 - Update Staff Name details
 - Update Department that a given staff member works for
 - Update the PercentTime a given staff member works for a particular department
 - Update Staff Salaries (e.g. up by 10%)
- **Syntax:**
UPDATE tbl_name
SET col_name1=expr1 [,col_name2=expr2 ...]
[WHERE where_definition]
- The **SET** clause indicates which columns to modify and the values they should be given.
- The **WHERE** clause, if given, specifies which rows should be updated. **Otherwise, all rows are updated.**

- **Example 1:** Update Staff Name details

UPDATE Staff

SET StaffName = 'Buffy Winters'

WHERE StaffId = 1

- It updates the name for the staff with the id of 1!

Staff table:

StaffID	StaffName	DateOfBirth	Salary
1	Buffy Winters	1987-09-15	27000.00
2	Buffy Summers	1987-09-15	27000.00
3	Teddy Bear	1983-12-03	87125.02
4	John Smith	1972-09-20	25000.00
5	Jane Doe	1969-01-25	55000.00
6	Jacek Jones	1984-10-19	35000.00
7	Teddy Bear	1983-12-03	87125.02
8	Fred Smith	1956-06-30	25125.02

- **Example 2:** Update Staff Salaries up by 10%

UPDATE Staff

SET Salary = 1.1 * Salary;

- It updates all staff salary by 10% increase!

Staff table:

StaffID	StaffName	DateOfBirth	Salary
1	Buffy Winters	1987-09-15	29700.00
2	Buffy Summers	1987-09-15	29700.00
3	Teddy Bear	1983-12-03	95837.52
4	John Smith	1972-09-20	27500.00
5	Jane Doe	1969-01-25	60500.00
6	Jacek Jones	1984-10-19	38500.00
7	Teddy Bear	1983-12-03	95837.52
8	Fred Smith	1956-06-30	27637.52

- Removes **records/rows** from 1 or more tables
- Can use criteria to specify which rows to delete
- Example
 - Delete all Staff members
 - Delete all Staff with surname of Smith

- **Syntax:**

DELETE table_name[.*] [, table_name[.*] ...]

FROM table-references

[**WHERE** where_definition]

- **DELETE** **deletes rows** from table_name that satisfy the condition given by where_definition

WARNING: If you issue a DELETE with no WHERE clause, all rows are deleted.

DELETE

- **Example 1:**

DELETE

FROM Staff

WHERE StaffID = 1;

- It deletes all the records with the staff id of 1

- **Example 2:**

DELETE

FROM Staff2

WHERE Salary > 80000;

- It deletes all the records with the staff salary of more than 80000

Staff table:

StaffID	StaffName	DateOfBirth	Salary
2	Buffy Summers	1987-09-15	29700.00
3	Teddy Bear	1983-12-03	95837.52
4	John Smith	1972-09-20	27500.00
5	Jane Doe	1969-01-25	60500.00
6	Jacek Jones	1984-10-19	38500.00
7	Teddy Bear	1983-12-03	95837.52
8	Fred Smith	1956-06-30	27637.52

Staff with ID 1
no longer exists!

Staff2 table:

StaffID	StaffName	DateOfBirth	Salary
1	Buffy Summers	1987-09-15	27000.00
2	Buffy Summers	1987-09-15	27000.00
4	John Smith	1972-09-20	25000.00
5	Jane Doe	1969-01-25	55000.00
6	Jacek Jones	1984-10-19	35000.00
8	Fred Smith	1956-06-30	25125.02

Staff with IDs 3
& 7 no longer
exists!

Thank you