

Additional DML commands: UPDATE & DELETE

UPDATE



- 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]

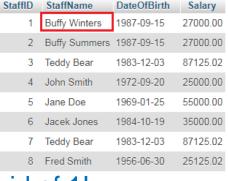
- The SET clause indicates which columns to modify and the values they should be given.
- The WHERE clause, if given, specifies which rows should be updated. Otherwise, all rows are updated.

UPDATE



Example 1: Update Staff Name details

```
UPDATE Staff
SET StaffName = 'Buffy Winters'
WHERE StaffId = 1
```



Staff table:

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

Staff table:

Example 2: Update Staff Salaries up by 10%

UPDATE Staff
SET Salary = 1.1 * Salary;

It updates all staff salary by 10% increase!

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

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DELETE



- 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:

FROM Staff

WHERE StaffID = 1;

DELETE

It deletes all the records with the staff id of 1

Example 2:

DELETE

FROM Staff2

WHERE Salary > 80000;

Stail	tab	le:

StaffID	StaffName	DateOfBirth	Salary	Staff with ID 1
2	Buffy Summers	1987-09-15	29700.00	no longer exist
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	

Staff2 table:

Staffld	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!

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



Thank you