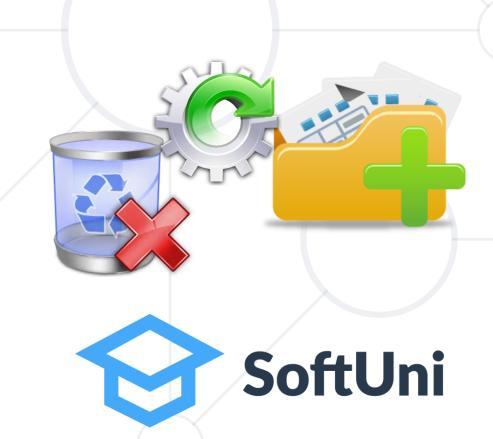
# **Basic CRUD in SQL Server**

Update and Delete Using SQL Queries

**SoftUni Team**Technical Trainers







**Software University** 

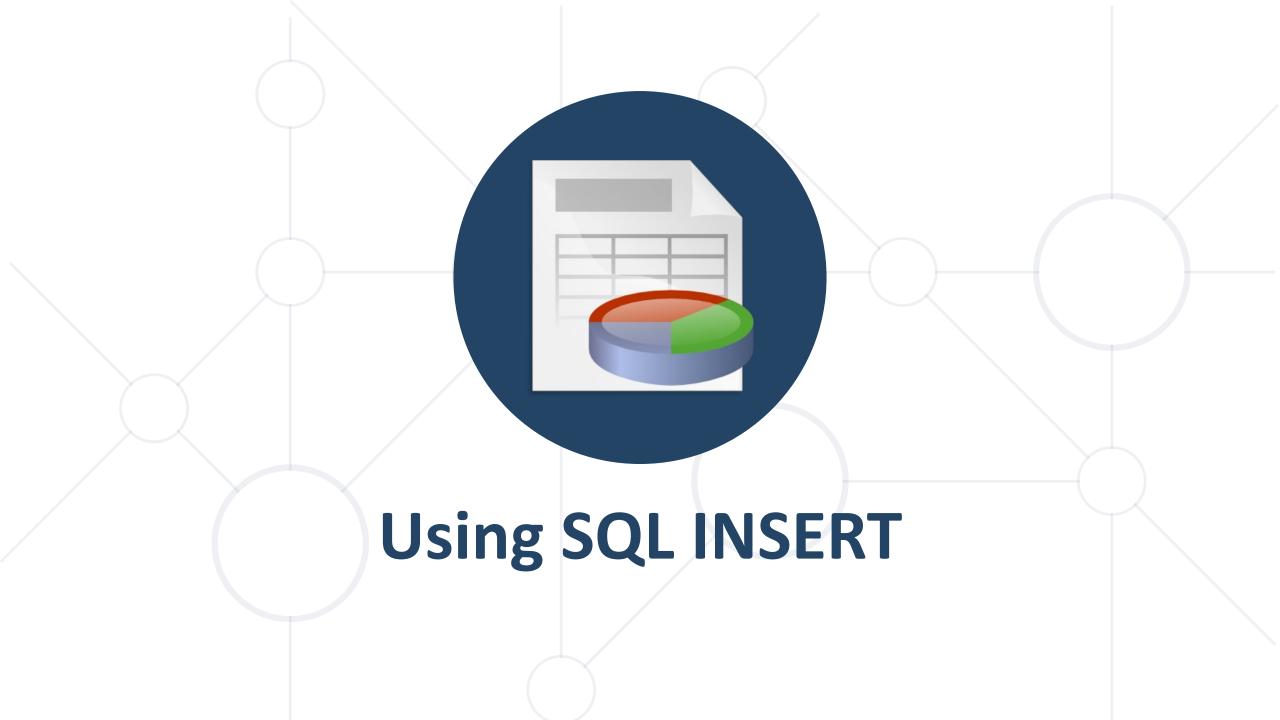
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  - UPDATE and DELETE





#### **Inserting Data**



The SQL INSERT command



```
INSERT INTO Towns VALUES (33, 'Paris')
```

```
INSERT INTO Projects (Name, StartDate)
VALUES ('Reflective Jacket', GETDATE())
```

 Bulk data can be recorded in a single query, separated by comma



#### **Inserting Data (2)**



Inserting rows into existing table:
List of columns

```
INSERT INTO Projects (Name, StartDate)
SELECT Name + ' Restructuring', GETDATE()
FROM Departments
```

Using existing records to create a new table:

```
SELECT CustomerID, FirstName, Email, Phone
INTO CustomerContacts
FROM Customers

New table name
```

**Existing source** 



#### **Deleting Data**



Deleting specific rows from a table



#### DELETE FROM Employees WHERE EmployeeID = 1

Note: Don't forget the WHERE clause!

**Condition** 

Delete all rows from a table (works faster than DELETE):

TRUNCATE TABLE Users

#### **Updating Data**



The SQL UPDATE command

**New values** 



```
UPDATE Employees
SET LastName = 'Brown'
```

WHERE EmployeeID = 1

**UPDATE** Employees

SET Salary = Salary \* 1.10,

JobTitle = 'Senior' + JobTitle

WHERE DepartmentID = 3

Note: Don't forget the WHERE clause!

### **Problem: Update Projects**



- Mark all unfinished Projects as being completed today
  - Hint: Unfinished projects have their EndDate set to NULL

Name	<b>EndDate</b>	<b>-</b>	Name	EndDate
Classic Vest	NULL		Classic Vest	2017-01-23
<b>HL Touring Frame</b>	NULL		<b>HL Touring Frame</b>	2017-01-23
LL Touring Frame	NULL		LL Touring Frame	2017-01-23
•••	•••		•••	

Note: Query SoftUni database

### **Solution: Update Projects**



**UPDATE** Projects

SET EndDate = GETDATE()

WHERE EndDate IS NULL

Filter only records with no value

#### Summary



- Queries provide a flexible and powerful method to manipulate records
- Write data in tables using INSERT
- Modify existing data using UPDATE and DELETE



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