# Lab Insert, Update and Delete data

Note: Use appropriate SELECT command to check contents of tables before and after the data is maintained.

Create new query for QAStore and save the file as **03-InsertUpdateDelete.sql**

## Exercise 3.1 – INSERT

### 3.1.1 INSERT Single Record – CREATE Table

* Execute the SQL below:

**-- 3.1.1 CREATE table new\_company**

**CREATE TABLE new\_company**

**(**

**company\_no INT NOT NULL,**

**company\_name VARCHAR(20) UNIQUE NOT NULL,**

**tel VARCHAR(15) NULL,**

**county VARCHAR(15) DEFAULT 'TBC',**

**post\_code CHAR(8) DEFAULT 'TBC',**

**added\_date\_time DATETIME DEFAULT GETDATE(),**

**approved CHAR(1) DEFAULT 'N',**

**CONSTRAINT PK\_new\_company\_no PRIMARY KEY (company\_no)**

**);**

### 3.1.2 INSERT Single Record – Using Columns

* Enter, save and execute SQL to add a record to table new\_company as:
* company\_no: 5000
* company\_name: 'Luxury Legumes Ltd'
* tel: '(01423) 599234'
* county: 'North Yorkshire'
* post\_code: 'HG1 7XX'
* added\_date\_time: '2016-11-16 14:01:34'
* approved: 'Y'
* What message do you get and why?
* Re-execute the SQL:
* What message do you get and why?
* Modify and re-execute the SQL:
* Modify just the following value:
* company\_no = 6000
* What message do you get and why?

### 3.1.3 INSERT Single Record – Not using Columns

* Enter, save and execute SQL to add a record to table new\_company specifying the following values:
* company\_no: 6000
* company\_name: 'Mobile Maps Ltd'
* tel: '01228-644234'
* county: 'Cumbria'
* post\_code: 'CA1 2HH'
* added\_date\_time: '2016-11-16 14:08:22'
* approved: 'Y'
* What message do you get and why?

### 3.1.4 INSERT Single Record – Using Non-Null Columns

* Enter, save and execute SQL to add a record to table new\_company   
  specifying: company\_no: 7000
* What error message do you get and why?
* Modify and re-execute the SQL to add a record to table new\_company as:
* company\_no: 7000
* company\_name: 'Nickel Nails PLC'
* What data is actually stored for each of the other fields and why?

### 3.1.5 INSERT Single Record – Using a Function

* Enter, save and execute SQL to add a record to table new\_company as:
* company\_no: 8000
* company\_name: 'Office Options Ltd'
* added\_date\_time: SYSDATETIME()
* What data is actually stored for each of the other fields and why?

### 3.1.6 INSERT Multiple Records – From another Table

* Enter, save and execute SQL to add the approved records (approve = 'Y') from the new\_company table to the company table.
* What records are actually stored on the company table and why?

## Exercise 3.2 – UPDATE

### 3.2.1 UPDATE Single Record – Single Column

* Enter, save and execute SQL to amend the record on table new\_company:
* For company\_no: 5000
* Specifying the following column and value:
* company\_name: 'Luxury Leggings PLC'
* What message do you get and why?

### 3.2.2 UPDATE Single Record – Multiple Columns

* Enter, save and execute SQL to amend the record on table new\_company:
* For company\_no: 6000
* Specifying the following columns and values:
* company\_name: 'Mobile Mapping Inc'
* tel: '01228-644235'
* post\_code: 'CA1 2HX'
* added\_date\_time: '2016-11-16 15:08:22'
* What message do you get and why?

### 3.2.3 UPDATE Multiple Records

* Enter, save and execute SQL to amend the records on table new\_company:
* For approved: 'N'
* Specifying the following columns and values:
* added\_date\_time: SYSDATETIME()
* approved: 'Y'
* What message do you get and why?

### 3.2.4 UPDATE All Records

* Enter, save and execute SQL to amend all records on table new\_company.
* Specifying the following columns and values:
* added\_date\_time: SYSDATETIME()
* What message do you get and why?

## Exercise 3.3 – DELETE

### 3.3.1 DELETE Single Record

* Enter, save and execute SQL to delete the record on table new\_company:
* For company\_no: 5000
* What message do you get and why?

### 3.3.2 DELETE Multiple Records

* Enter, save and execute SQL to delete the records on table new\_company:
* For approved: 'N'
* What message do you get and why?

### 3.3.3 DELETE All Records

* Enter, save and execute SQL to delete all the records on table new\_company.
* What message do you get and why?