

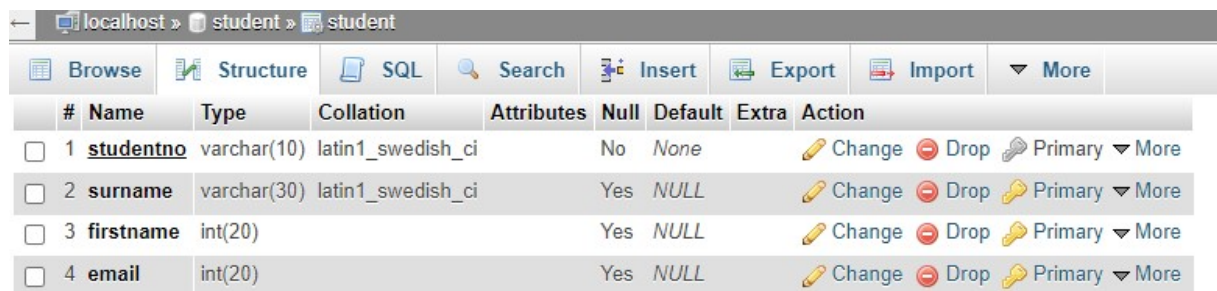
Activity 1 -Modifying Data

Note: The actual files for the creation of these database(s) are provided to you, however I do recommend you develop them from basic principles and make your own.

Create the table called student with the attributes as shown: studentno, surname, firstname, email.
Using the following data dictionary

	datatype	Size
studentno	varchar	10
surname	varchar	30
firstname	Int	20
email	int	20

```
CREATE TABLE student (  
    studentno VARCHAR (10) PRIMARY KEY,  
    surname VARCHAR (30),  
    firstname INT (20),  
    email INT (20)  
);
```



#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	studentno	varchar(10)	latin1_swedish_ci		No	None		Change Drop Primary More
2	surname	varchar(30)	latin1_swedish_ci		Yes	NULL		Change Drop Primary More
3	firstname	int(20)			Yes	NULL		Change Drop Primary More
4	email	int(20)			Yes	NULL		Change Drop Primary More

Exercise01: Create a table called 'module' that has the following attributes – moduleno, modulename, moduleunitsize, hoursfordelivery.

Need to know the data dictionary:

	datatype	Size
moduleno	varchar	10
modulename	varchar	50
moduleunitsize	Int	3
hoursfordelivery	int	3

```
CREATE TABLE module (  
    moduleno VARCHAR (10),  
    modulename VARCHAR (50),  
    moduleunitsize INT (3),  
    hoursfordelivery INT (3)  
);
```

localhost » student » module								
Browse Structure SQL Search Insert Export Import More								
#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> 1	moduleno	varchar(10)	latin1_swedish_ci		Yes	NULL		Change Drop More
<input type="checkbox"/> 2	modulename	varchar(50)	latin1_swedish_ci		Yes	NULL		Change Drop More
<input type="checkbox"/> 3	moduleunitsize	int(3)			Yes	NULL		Change Drop More
<input type="checkbox"/> 4	hoursfordelivery	int(3)			Yes	NULL		Change Drop More

ALTER TABLE module

ADD PRIMARY KEY (moduleno);

localhost » student » module								
Browse Structure SQL Search Insert Export Import More								
#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> 1	<u>moduleno</u>	varchar(10)	latin1_swedish_ci		No			Change Drop More
<input type="checkbox"/> 2	modulename	varchar(50)	latin1_swedish_ci		Yes	NULL		Change Drop More
<input type="checkbox"/> 3	moduleunitsize	int(3)			Yes	NULL		Change Drop More
<input type="checkbox"/> 4	hoursfordelivery	int(3)			Yes	NULL		Change Drop More

ALTER TABLE module

ADD studentno varchar(10);

localhost » student » module								
Browse Structure SQL Search Insert Export Import More								
#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/> 1	<u>moduleno</u>	varchar(10)	latin1_swedish_ci		No			Change Drop More
<input type="checkbox"/> 2	modulename	varchar(50)	latin1_swedish_ci		Yes	NULL		Change Drop More
<input type="checkbox"/> 3	moduleunitsize	int(3)			Yes	NULL		Change Drop More
<input type="checkbox"/> 4	hoursfordelivery	int(3)			Yes	NULL		Change Drop More
<input type="checkbox"/> 5	studentno	varchar(10)	latin1_swedish_ci		Yes	NULL		Change Drop More

ALTER TABLE module

ADD CONSTRAINT FK_module

FOREIGN KEY (studentno) REFERENCES student(studentno);

localhost » student » module									
Browse Structure SQL Search Insert Export Import More									
#	Name	Type	Collation	Attributes	Null	Default	Extra	Action	
<input type="checkbox"/> 1	<u>moduleno</u>	varchar(10)	latin1_swedish_ci		No			Change	Drop More
<input type="checkbox"/> 2	<u>modulename</u>	varchar(50)	latin1_swedish_ci		Yes	NULL		Change	Drop More
<input type="checkbox"/> 3	<u>moduleunitsize</u>	int(3)			Yes	NULL		Change	Drop More
<input type="checkbox"/> 4	<u>hoursfordelivery</u>	int(3)			Yes	NULL		Change	Drop More
<input type="checkbox"/> 5	<u>studentno</u>	varchar(10)	latin1_swedish_ci		Yes	NULL		Change	Drop More

Use the insert command to enter a record into the student table.

CODE

```
INSERT INTO student VALUES
(
'EC007','Flintstone','Fred', 'flintstone@bt.com', 1234567
);
```

+ Options						
		studentno	surname	firstname	email	mobilenno
<input type="checkbox"/>	Edit Copy Delete	EC007	Flintstone	Fred	flintstone@bt.com	1234567

Exercise 02: Enter the records for the other members of the Flintstone family: Wilma, Pebbles and Dino

CODE

```
INSERT INTO student VALUES
(
'EC008','Flintstone','Wilma', 'w.flintstone@bt.com', 2345678
),
(
'EC009','Flintstone','Dino', 'd.flintstone@bt.com', 3456789
);
```

		studentno	surname	firstname	email	mobilenno
<input type="checkbox"/>	Edit Copy Delete	EC007	Flintstone	Fred	flintstone@bt.com	1234567
<input type="checkbox"/>	Edit Copy Delete	EC008	Flintstone	Wilma	w.flintstone@bt.com	2345678
<input type="checkbox"/>	Edit Copy Delete	EC009	Flintstone	Dino	d.flintstone@bt.com	3456789

Exercise03: Insert into this table the following record.

moduleno: DH3J34

modulename: SQL: Introduction

moduleunitsize: 1

hoursfordelivery: 32

studentno: EC007

CODE

```
INSERT INTO module (  
    moduleno,  
    modulename,  
    moduleunitsize,  
    hoursfordelivery,  
    studentno)  
VALUES  
    ('DH3J34',  
    'SQL: Introduction',  
    '1',  
    '32',  
    'EC007'  
);
```

	moduleno	modulename	moduleunitsize	hoursfordelivery	studentno
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	DH3J34	SQL: Introduction	1	32	EC007

Exercise04: Use code to alter the value from Fred to Barney

student

set

firstname = 'Barney'

where

mobilenumber = 1234567;

CODE

UPDATE

student

SET

firstname = 'Barney'

WHERE

mobilenumber = 1234567;

	studentno	surname	firstname	email	mobilenumber
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	EC007	Flintstone	Barney	flintstone@bt.com	1234567
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	EC008	Flintstone	Wilma	w.flintstone@bt.com	2345678
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	EC009	Flintstone	Dino	d.flintstone@bt.com	3456789

Return the value and put it back to Fred.

CODE

UPDATE

student

SET

firstname = 'Fred'

WHERE

mobilenno = 1234567;

+ Options

					studentno	surname	firstname	email	mobilenno		
<input type="checkbox"/>		Edit		Copy		Delete	EC007	Flintstone	Fred	flintstone@bt.com	1234567
<input type="checkbox"/>		Edit		Copy		Delete	EC008	Flintstone	Wilma	w.flintstone@bt.com	2345678
<input type="checkbox"/>		Edit		Copy		Delete	EC009	Flintstone	Dino	d.flintstone@bt.com	3456789

Exercise05: do sql that will show Barney and the module details – using a join.

CODE

SELECT

surname,

firstname,

s.studentno,

modulename

FROM student s

INNER JOIN module m ON m.studentno = s.studentno;

surname	firstname	studentno	modulename
Flintstone	Barney	EC007	SQL: Introduction